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Alpha Analytical

Laboratory Code: 11148

SDG Number: L2046790

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Project Name: 13-12 BEACH CHANNEL DRIVE
Project Number: 15209

Lab Number: L2046790
Report Date: 10/30/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2046790-01	MW-1	WATER	13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	10/27/20 08:15	10/27/20
L2046790-02	MW-2	WATER	13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	10/27/20 09:30	10/27/20
L2046790-03	MW-3	WATER	13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	10/27/20 10:15	10/27/20
L2046790-04	TWP-1	WATER	13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	10/27/20 08:45	10/27/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Sturgis Report Date: 10/30/20

Title: Technical Director/Representative

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Report Format: DU Report with 'J' Qualifiers

Data Qualifiers

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 7890 GC/5975C MSD	Columns (length x ID x df):
Trap: Supelco K Trap (VOACARB 3000)	RTX-VMS 20m x 0.18mm x 1um
Concentrator: EST Encon (or equivalent)	RTX-VMS 30m x 0.25mm x 1.4um
Autosampler: EST Centurion (or equivalent)	RTX-502.2 40m x 0.18mm x 1um
Purge time: 11 min	

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent)	Column Type: Restek RTX 502.2
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 105 Meters
Concentrator: EST Encon (or equivalent)	df: 3.00 um
Autosampler: EST Centurion (or equivalent)	ID: 0.53mm

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD	Column Type: DB-VRX
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 60 Meters
Concentrator: Tekmar Velocity / EST Encon	df: 1.40 um
Autosampler: Varian Archon / EST Centurion	ID: 0.25 mm
Purge time: 11 min	Desorb: 1 min

Volatile Organics: Dissolved Gas

Instrument: Agilent 7890 (or equivalent) with FID/TCD	
	Column Type: Haysep S Column
	Column Length: 2 Meters packed (100/200 mesh)
Autosampler: LEAP Headspace	Purge time: 0.6 min

Volatile Organics in Air Instruments

Volatile Organics in Air:

Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE / QP2020

Concentrator: Entech 7100A or 7200	Column Type: Restek RTX-1
Autosampler: Entech 7016CA or 7016D	Column Length: 60 Meters
	df: 1.00 um
	ID: 0.25 mm or 0.32 mm

Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material
Trap 2: Tenax: manufacturer-Entech: 20 cm packing material

Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

Instrument: Agilent 5973N MSD	Injection volume: 1 ul;2 uL LVI
Column Type: Restek RXI-5SILMS	df: 0.32 um
Column Length: 30 Meters	ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

Instrument: Agilent 5973 MSD	Injection volume: 1 ul;2 uL LVI
Column Type: Restek RXI-5SILMS	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Pesticides/PCB/Herbicides:

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Petroleum/EPH:

Instrument: Agilent 6890 w/FID / HP 5890 w/ FID	Injection Volume: 1uL
Column: Restek RTX 5	df: 0.25
Column Length: 30 Meters	
ID: 0.32 mm	

Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 1 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8270):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 2 ul
Column Type: ZB-Semivolatiles	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (8270 SIM):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (1,4-Dioxane):

Instrument: Agilent 5973N / 5975 / 5977 MSD	Injection volume: 3 ul
Column Type: RTX-5	df: 0.25um, 0.18 um
Column Length: 30 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (209 Congener):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (8081):

Instrument: Agilent 6890 / 7890	Injection volume: 1 ul
Column Type: RTX-5 / RTX-CLP II	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8082):

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Semivolatile Organics (SHC Extractables):

Instrument: Agilent 6890	Injection volume: 1 ul
Column Type: RTX-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Sample Delivery Group Summary

Alpha Job Number : L2046790

Received : 27-OCT-2020
Reviewer : Uriel Amparbeng

Account Name : Impact Environmental
Project Number : 15209
Project Name : 13-12 BEACH CHANNEL DRIVE

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	3.7	

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between sample labels & COC?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**NA**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NO**

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jan 06 2021, 02:40 pm

Login Number: L2046790
Account: IMPENV Impact EnvironmentalProject: 15209
Received: 27OCT20 Due Date: 30OCT20

Sample #	Client ID	Mat	PR	Collected
L2046790-01	MW-1		1	1C 27OCT20 08:15

STD TAT 3-5 days; 1-day, 50%; 2-day, 25% 8260: reporting list built 8270: Reporting list built Pest / Herb : Reporting List Built ASP-B Package Due Date: 01/08/21

ASP-B,NY-PART375METALS-S,AG-6020S,AS-6020S,BA-6020S,BE-6020S,CD-6020S,CR-6020S,CU-6020S,HEXCR-7196, HG-S,MN-6020S,NI-6020S,PB-6020S,PREPS,SE-6020S,TCN-9010,TRICR-CALC,ZN-6020S,NY-PART375METALS-T,AG-6020T,AS-6020T,BA-6020T,BE-6020T,CD-6020T,CR-6020T,CU-6020T,HG-T,MN-6020T,NI-6020T,PB-6020T,PREPT, SE-6020T,ZN-6020T,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260,NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI

L2046790-02	MW-2		1	1C 27OCT20 09:30

STD TAT 3-5 days; 1-day, 50%; 2-day, 25% 8260: reporting list built 8270: Reporting list built Pest / Herb : Reporting List Built Package Due Date: 01/08/21

NY-PART375METALS-S,AG-6020S,AS-6020S,BA-6020S,BE-6020S,CD-6020S,CR-6020S,CU-6020S,HEXCR-7196,HG-S, MN-6020S,NI-6020S,PB-6020S,PREPS,SE-6020S,TCN-9010,TRICR-CALC,ZN-6020S,NY-PART375METALS-T,AG-6020T, AS-6020T,BA-6020T,BE-6020T,CD-6020T,CR-6020T,CU-6020T,HG-T,MN-6020T,NI-6020T,PB-6020T,PREPT,SE-6020T,ZN-6020T,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260,NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI

L2046790-03	MW-3		1	1C 27OCT20 10:15

STD TAT 3-5 days; 1-day, 50%; 2-day, 25% 8260: reporting list built 8270: Reporting list built Pest / Herb : Reporting List Built Package Due Date: 01/08/21

NY-PART375METALS-S,AG-6020S,AS-6020S,BA-6020S,BE-6020S,CD-6020S,CR-6020S,CU-6020S,HEXCR-7196,HG-S, MN-6020S,NI-6020S,PB-6020S,PREPS,SE-6020S,TCN-9010,TRICR-CALC,ZN-6020S,NY-PART375METALS-T,AG-6020T, AS-6020T,BA-6020T,BE-6020T,CD-6020T,CR-6020T,CU-6020T,HG-T,MN-6020T,NI-6020T,PB-6020T,PREPT,SE-6020T,ZN-6020T,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260,NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI

L2046790-04	TWP-1		1	1C 27OCT20 08:45

STD TAT 3-5 days; 1-day, 50%; 2-day, 25% 8260: reporting list built 8270: Reporting list built Pest / Herb : Reporting List Built Package Due Date: 01/08/21

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jan 06 2021, 02:40 pm

Login Number: L2046790
Account: IMPENV Impact EnvironmentalProject: 15209
Received: 27OCT20 Due Date: 30OCT20

Sample #	Client ID	Mat	PR Collected

NY-PART375METALS-S,AG-6020S,AS-6020S,BA-6020S,BE-6020S,CD-6020S,CR-6020S,CU-6020S,HEXCR-7196,HG-S,
MN-6020S,NI-6020S,PB-6020S,PREPS,SE-6020S,TCN-9010,TRICR-CALC,ZN-6020S,NY-PART375METALS-T,AG-6020T,
AS-6020T,BA-6020T,BE-6020T,CD-6020T,CR-6020T,CU-6020T,HG-T,MN-6020T,NI-6020T,PB-6020T,PREPT,SE-
6020T,ZN-6020T,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260,NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-
SIM-LVI

Logged By: Heather Hayden

CHAIN OF CUSTODY

IMPACT ENVIRONMENTAL
170 Keyland Court, Bohemia, New York 11716
(Tel.) 631-269-8800 (Fax) 631-269-1599

Page 1 of 1

ICL ☒ ISW ☐
IEC ☐ SGC ☐
IM ☐

LAB NAME: Alpha L2046790

RECEIVED DATE: 10/27/20

Client Information

Company Name: Impact Environmental
Address: 170 Keyland Court
City: Bohemia **State:** NY **Zip:** 11716
Project Contact: Leif Robertson
Phone #: 631-269-8800 **Fax #:** 631-269-1599
E-mail: lrobertson@impactenvironmental.com

Project Information

Project Name: 13-12 Beach Channel Drive
Street: 13-16 to 13-30 Beach Channel Drive
City: Queens **State:** NY **Zip:**
Project #: 15209
Sampler's Name: Leif Robertson
Sampler's Signature:

Sample Information / Sample Collection / Sample Containers / Analytical Information

LAB SAMPLE # (LAB USE ONLY)	Sample ID	IEC Project Code	Matrix Code	Sample Type	Sample Date	Time	Total # of bottles	NONE or OTHER*	ICE	HCL	Methanol (USEPA 5035)	Sodium Bisulfate (EPA 5035)	Impact Analytical Package A*	Impact Analytical Package B**	Impact Analytical Package C***	VOC 8260 (Analyte List for NY Part 375 and NJ-HRBEC)	GPB2 Analysis	VOCs 8260 (CP51 Analyte List)	Part 375 SVOC's	Part 375 Pesticides	Part 375 PCB	Part 375 metal (total) + Hex.Chrom	RCA 375 metal (dissolved) + Hex.Chrom	(LAB USE ONLY)
	1 MW-1	15209	GW	G	10/27	815	12		X	X						X			X	X	X	X	X	
	2 MW-2	15209	GW	G	10/27	930	12		X	X						X			X	X	X	X	X	
	3 MW-3	15209	GW	G	10/27	1015	12		X	X						X			X	X	X	X	X	
	4 TWP-1	15209	GW	G	10/27	845	12		X	X						X			X	X	X	X	X	
	5																							
	6																							
	7																							
	8																							
	9																							
	10																							

Matrix Codes

L - Liquid
S - Soil
A - Air
OL - Oil
W - Wipe
PC - Paint Chips
SL - Sludge
SD - Solid
DW- Drinking Water
DISS - Dissolved

Sample Type

G=Grab
C=Composite
B=Blank

Turnaround Time (Business Days)

Standard Service

- ☐ Standard - 5 day
- ☐ Standard - 4 day
- ☒ Standard - 3 day

Rush Service

- ☐ 48 Hour *RUSH*
- ☐ 24 Hour *RUSH*

(LAB USE ONLY)
TAT Approved By / Date:

Data Deliverable Information

- ☐ Results Only (Level-1)
- ☐ Results plus Misc. QC (Level-2)
- ☐ Results plus ALL QC (Level-3)
- ☐ PA QC Package
- ☐ NJ QC Package (Level3NJ)
- ☐ CLP Category A (Level-2)
- ☐ CLP Category B (Level-4)
- ☐ ASP QC Package (Level-4)
- ☐ Other _____
- ☐ EDD Format_____

(EDD Formats: Excel, pdf, EQUIS, GIS, GISKey, SPDES, Ascii, TAGM, OENJ)

REFERENCES

*Package A (proprietary) - Priority Pollutants Metals, SVOCs, PCB/Pest and Herbicides - to match all NJ DCSRS & NY Part 375 parameters and dectection limits. **Package B (proprietary)-Same as Package A, plus TCLP Metals & Category II EPH. ***Package C (proprietary)- Same as Package B plus RCRA characteristics and Full TCLP

NOTES/COMMENTS:

Sample custody must be documented below, each time samples change possession, with a signature, date, and time.

Relinquished by Sampler:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1	1 1430 10/27/20 1545	1 RBIR AAL	2 RBIR AAL	2 10/27/20 1840	2
Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
3	3	3	4	4	4 ASBishop 10/27/20 23:10
Relinquished by:	Date / Time:	Received By:	COOLER INFORMATION		
5	5	5	Cooler Temp:_____	pH:_____	☐ On Ice ☐ Sample Receipt Discrepancy(attach information)

Form SS-2/Nov. 2013

Organics

GC/MS 8260
Analysis

Volatiles QC Summary

Surrogate Recovery Summary
Form 2
Volatiles

Client: Impact Environmental
Project Name: 13-12 BEACH CHANNEL DRIVE

Lab Number: L2046790
Project Number: 15209
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
MW-1 (L2046790-01)	94	98	103	95	0
MW-2 (L2046790-02)	106	104	94	98	0
MW-3 (L2046790-03D)	94	100	105	95	0
MW-3 (L2046790-03)	92	100	101	93	0
TWP-1 (L2046790-04)	103	100	97	99	0
WG1428076-3LCS	96	102	102	96	0
WG1428076-4LCSD	97	102	102	98	0
WG1428076-5BLANK	95	101	104	94	0
WG1428085-3LCS	90	105	103	95	0
WG1428085-4LCSD	99	100	99	99	0
WG1428085-5BLANK	108	98	104	94	0
WG1428497-3LCS	99	101	102	97	0
WG1428497-4LCSD	98	103	103	96	0
WG1428497-5BLANK	94	100	103	94	0

QC LIMITS

(70-130) DCA = 1,2-DICHLOROETHANE-D4
(70-130) TOL = TOLUENE-D8
(70-130) BFB = 4-BROMOFLUOROBENZENE
(70-130) DBFM = DIBROMOFLUOROMETHANE

*** Values outside of QC limits**

FORM II NYTCL-8260

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Matrix	: WATER		
LCS Sample ID	: WG1428076-3 **Analysis Date** : 10/28/20 17:58	**File ID**	: V05201028N01
LCSD Sample ID	: WG1428076-4 **Analysis Date** : 10/28/20 18:21	**File ID**	: V05201028N02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	10	9.2	92	10	8.9	89	3	70-130	20
1,1-Dichloroethane	10	9.7	97	10	9.5	95	2	70-130	20
Chloroform	10	8.8	88	10	8.9	89	1	70-130	20
Carbon tetrachloride	10	8.9	89	10	8.9	89	0	63-132	20
Tetrachloroethene	10	9.9	99	10	9.7	97	2	70-130	20
Chlorobenzene	10	9.1	91	10	8.9	89	2	75-130	20
1,2-Dichloroethane	10	9.1	91	10	8.9	89	2	70-130	20
1,1,1-Trichloroethane	10	8.9	89	10	8.7	87	2	67-130	20
Benzene	10	9.6	96	10	9.4	94	2	70-130	20
Toluene	10	9.5	95	10	9.5	95	0	70-130	20
Ethylbenzene	10	9.2	92	10	9.0	90	2	70-130	20
Vinyl chloride	10	12	120	10	12	120	0	55-140	20
1,1-Dichloroethene	10	8.3	83	10	8.0	80	4	61-145	20
trans-1,2-Dichloroethene	10	9.6	96	10	9.4	94	2	70-130	20
Trichloroethene	10	9.0	90	10	8.8	88	2	70-130	20
1,2-Dichlorobenzene	10	9.7	97	10	9.7	97	0	70-130	20
1,3-Dichlorobenzene	10	9.6	96	10	9.5	95	1	70-130	20
1,4-Dichlorobenzene	10	9.7	97	10	9.4	94	3	70-130	20
Methyl tert butyl ether	10	8.2	82	10	8.4	84	2	63-130	20
p/m-Xylene	20	18	90	20	18	90	0	70-130	20
o-Xylene	20	18	90	20	18	90	0	70-130	20
cis-1,2-Dichloroethene	10	9.4	94	10	9.0	90	4	70-130	20
Acetone	10	7.9	79	10	7.8	78	1	58-148	20
2-Butanone	10	7.8	78	10	7.3	73	7	63-138	20
n-Butylbenzene	10	9.0	90	10	8.8	88	2	53-136	20
sec-Butylbenzene	10	9.4	94	10	9.4	94	0	70-130	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Matrix	: WATER		
LCS Sample ID	: WG1428076-3 **Analysis Date** : 10/28/20 17:58	**File ID**	: V05201028N01
LCSD Sample ID	: WG1428076-4 **Analysis Date** : 10/28/20 18:21	**File ID**	: V05201028N02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
tert-Butylbenzene	10	9.2	92	10	9.3	93	1	70-130	20
n-Propylbenzene	10	9.6	96	10	9.6	96	0	69-130	20
1,3,5-Trimethylbenzene	10	9.6	96	10	9.5	95	1	64-130	20
1,2,4-Trimethylbenzene	10	9.6	96	10	9.4	94	2	70-130	20
1,4-Dioxane	500	400	80	500	410	82	2	56-162	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Matrix	: WATER		
LCS Sample ID	: WG1428085-3 **Analysis Date** : 10/29/20 08:10	**File ID**	: V08201029A01
LCSD Sample ID	: WG1428085-4 **Analysis Date** : 10/29/20 08:32	**File ID**	: V08201029A02

	Laboratory Control Sample				Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R		True (ug/l)	Found (ug/l)	%R		RPD	Recovery Limits	RPD Limit
Methylene chloride	10	9.4	94		10	10	100		6	70-130	20
1,1-Dichloroethane	10	10	100		10	9.9	99		1	70-130	20
Chloroform	10	9.2	92		10	9.7	97		5	70-130	20
Carbon tetrachloride	10	9.1	91		10	9.7	97		6	63-132	20
Tetrachloroethene	10	6.8	68	Q	10	6.5	65	Q	5	70-130	20
Chlorobenzene	10	10	100		10	10	100		0	75-130	20
1,2-Dichloroethane	10	9.2	92		10	9.8	98		6	70-130	20
1,1,1-Trichloroethane	10	9.4	94		10	9.7	97		3	67-130	20
Benzene	10	9.2	92		10	9.7	97		5	70-130	20
Toluene	10	11	110		10	9.9	99		11	70-130	20
Ethylbenzene	10	10	100		10	10	100		0	70-130	20
Vinyl chloride	10	9.2	92		10	10	100		8	55-140	20
1,1-Dichloroethene	10	9.4	94		10	9.9	99		5	61-145	20
trans-1,2-Dichloroethene	10	9.3	93		10	9.4	94		1	70-130	20
Trichloroethene	10	9.5	95		10	10	100		5	70-130	20
1,2-Dichlorobenzene	10	11	110		10	9.9	99		11	70-130	20
1,3-Dichlorobenzene	10	11	110		10	9.9	99		11	70-130	20
1,4-Dichlorobenzene	10	11	110		10	10	100		10	70-130	20
Methyl tert butyl ether	10	8.6	86		10	9.0	90		5	63-130	20
p/m-Xylene	20	20	100		20	20	100		0	70-130	20
o-Xylene	20	21	105		20	20	100		5	70-130	20
cis-1,2-Dichloroethene	10	9.3	93		10	9.7	97		4	70-130	20
Acetone	10	8.3	83		10	9.1	91		9	58-148	20
2-Butanone	10	6.6	66		10	7.1	71		7	63-138	20
n-Butylbenzene	10	11	110		10	11	110		0	53-136	20
sec-Butylbenzene	10	12	120		10	10	100		18	70-130	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Matrix	: WATER		
LCS Sample ID	: WG1428085-3 **Analysis Date** : 10/29/20 08:10	**File ID**	: V08201029A01
LCSD Sample ID	: WG1428085-4 **Analysis Date** : 10/29/20 08:32	**File ID**	: V08201029A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
tert-Butylbenzene	10	10	100	10	9.5	95	5	70-130	20
n-Propylbenzene	10	11	110	10	10	100	10	69-130	20
1,3,5-Trimethylbenzene	10	11	110	10	10	100	10	64-130	20
1,2,4-Trimethylbenzene	10	11	110	10	10	100	10	70-130	20
1,4-Dioxane	500	330	66	500	360	72	9	56-162	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Matrix	: WATER		
LCS Sample ID	: WG1428497-3 **Analysis Date** : 10/29/20 17:16	**File ID**	: V05201029N01
LCSD Sample ID	: WG1428497-4 **Analysis Date** : 10/29/20 17:39	**File ID**	: V05201029N02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	10	9.9	99	10	9.4	94	5	70-130	20
1,1-Dichloroethane	10	10	100	10	9.5	95	5	70-130	20
Chloroform	10	9.3	93	10	8.8	88	6	70-130	20
Carbon tetrachloride	10	8.9	89	10	8.4	84	6	63-132	20
Tetrachloroethene	10	10	100	10	9.7	97	3	70-130	20
Chlorobenzene	10	9.3	93	10	9.1	91	2	75-130	20
1,2-Dichloroethane	10	9.4	94	10	9.1	91	3	70-130	20
1,1,1-Trichloroethane	10	9.0	90	10	8.6	86	5	67-130	20
Benzene	10	10	100	10	9.6	96	4	70-130	20
Toluene	10	9.8	98	10	9.3	93	5	70-130	20
Ethylbenzene	10	9.4	94	10	9.2	92	2	70-130	20
Vinyl chloride	10	12	120	10	11	110	9	55-140	20
1,1-Dichloroethene	10	8.2	82	10	7.9	79	4	61-145	20
trans-1,2-Dichloroethene	10	9.7	97	10	9.2	92	5	70-130	20
Trichloroethene	10	9.2	92	10	8.9	89	3	70-130	20
1,2-Dichlorobenzene	10	9.9	99	10	9.5	95	4	70-130	20
1,3-Dichlorobenzene	10	9.9	99	10	9.5	95	4	70-130	20
1,4-Dichlorobenzene	10	10	100	10	9.4	94	6	70-130	20
Methyl tert butyl ether	10	8.3	83	10	7.6	76	9	63-130	20
p/m-Xylene	20	19	95	20	18	90	5	70-130	20
o-Xylene	20	19	95	20	18	90	5	70-130	20
cis-1,2-Dichloroethene	10	10	100	10	9.5	95	5	70-130	20
Acetone	10	8.2	82	10	8.8	88	7	58-148	20
2-Butanone	10	8.2	82	10	8.2	82	0	63-138	20
n-Butylbenzene	10	9.2	92	10	8.5	85	8	53-136	20
sec-Butylbenzene	10	9.7	97	10	9.2	92	5	70-130	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Matrix	: WATER		
LCS Sample ID	: WG1428497-3 **Analysis Date** : 10/29/20 17:16	**File ID**	: V05201029N01
LCSD Sample ID	: WG1428497-4 **Analysis Date** : 10/29/20 17:39	**File ID**	: V05201029N02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
tert-Butylbenzene	10	9.4	94	10	9.0	90	4	70-130	20
n-Propylbenzene	10	9.9	99	10	9.4	94	5	69-130	20
1,3,5-Trimethylbenzene	10	10	100	10	9.4	94	6	64-130	20
1,2,4-Trimethylbenzene	10	10	100	10	9.3	93	7	70-130	20
1,4-Dioxane	500	350	70	500	340	68	3	56-162	20

Method Blank Summary
Form 4
Volatiles

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab Sample ID	: WG1428076-5	**Lab File ID**	: V05201028N04
Instrument ID	: VOA105		
Matrix	: WATER	**Analysis Date**	: 10/28/20 19:07

Client Sample No.	Lab Sample ID	Analysis Date
WG1428076-3LCS	WG1428076-3	10/28/20 17:58
WG1428076-4LCSD	WG1428076-4	10/28/20 18:21
MW-1	L2046790-01	10/29/20 02:29
MW-3	L2046790-03	10/29/20 02:53

Method Blank Summary
Form 4
Volatiles

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab Sample ID	: WG1428085-5	**Lab File ID**	: V08201029A05
Instrument ID	: VOA108		
Matrix	: WATER	**Analysis Date**	: 10/29/20 09:38

Client Sample No.	Lab Sample ID	Analysis Date
WG1428085-3LCS	WG1428085-3	10/29/20 08:10
WG1428085-4LCSD	WG1428085-4	10/29/20 08:32
MW-2	L2046790-02	10/29/20 09:59
TWP-1	L2046790-04	10/29/20 10:21

Method Blank Summary
Form 4
Volatiles

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab Sample ID	: WG1428497-5	**Lab File ID**	: V05201029N05
Instrument ID	: VOA105		
Matrix	: WATER	**Analysis Date**	: 10/29/20 18:49

Client Sample No.	Lab Sample ID	Analysis Date
WG1428497-3LCS	WG1428497-3	10/29/20 17:16
WG1428497-4LCSD	WG1428497-4	10/29/20 17:39
MW-3	L2046790-03D	10/30/20 02:12

Instrument Performance Check (Tune) Summary
Form 5
Volatiles
Bromofluorobenzene (BFB)

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: VOA105	**Analysis Date**	: 09/30/20 15:11
Tune Standard	: WG1416925-1	**Tune File ID**	: V05200930NBF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	24.9
75	30.0 - 60.0% of mass 95	52.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.8 (1)1
174	Greater than 50.0 of mass 95	78.9
175	5.0 - 9.0% of mass 174	5.8 (7.3)1
176	95.0 - 101% of mass 174	76.5 (97)1
177	5.0 - 9.0% of mass 176	5 (6.6)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STDL0.19PP	R1356316-1	V05200930N04	09/30/20 16:40
STDL0.5PPB	R1356316-2	V05200930N06	09/30/20 17:26
STDL2PPB	R1356316-3	V05200930N08	09/30/20 18:13
STDL10PPB	R1356316-5	V05200930N09	09/30/20 18:36
STDL30PPB	R1356316-6	V05200930N10	09/30/20 19:00
STDL80PPB	R1356316-4	V05200930N11	09/30/20 19:23
STDL120PPB	R1356316-8	V05200930N12	09/30/20 19:46
STDL200PPB	R1356316-9	V05200930N13	09/30/20 20:10

Instrument Performance Check (Tune) Summary
Form 5
Volatiles
Bromofluorobenzene (BFB)

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: VOA105	**Analysis Date**	: 10/01/20 11:45
Tune Standard	: WG1416925-2	**Tune File ID**	: V05201001ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	24.7
75	30.0 - 60.0% of mass 95	52.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.9 (1.2)1
174	Greater than 50.0 of mass 95	75.9
175	5.0 - 9.0% of mass 174	5.7 (7.5)1
176	95.0 - 101% of mass 174	73.8 (97.3)1
177	5.0 - 9.0% of mass 176	4.6 (6.2)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ICV Quant Report	R1356316-7	V05201001A03	10/01/20 12:52

Instrument Performance Check (Tune) Summary
Form 5
Volatiles
Bromofluorobenzene (BFB)

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: VOA105	**Analysis Date**	: 10/28/20 17:37
Tune Standard	: WG1428076-1	**Tune File ID**	: V05201028NBF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	27.3
75	30.0 - 60.0% of mass 95	53.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.4 (.5)1
174	Greater than 50.0 of mass 95	77
175	5.0 - 9.0% of mass 174	6 (7.8)1
176	95.0 - 101% of mass 174	75.7 (98.4)1
177	5.0 - 9.0% of mass 176	4.8 (6.4)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1428076-2CCAL	WG1428076-2	V05201028N01	10/28/20 17:58
WG1428076-3LCS	WG1428076-3	V05201028N01	10/28/20 17:58
WG1428076-4LCSD	WG1428076-4	V05201028N02	10/28/20 18:21
WG1428076-5BLANK	WG1428076-5	V05201028N04	10/28/20 19:07
MW-1	L2046790-01	V05201028N23	10/29/20 02:29
MW-3	L2046790-03	V05201028N24	10/29/20 02:53

Instrument Performance Check (Tune) Summary
Form 5
Volatiles
Bromofluorobenzene (BFB)

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: VOA105	**Analysis Date**	: 10/29/20 16:56
Tune Standard	: WG1428497-1	**Tune File ID**	: V05201029NBF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	27.2
75	30.0 - 60.0% of mass 95	54
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	1 (1.2)1
174	Greater than 50.0 of mass 95	81.6
175	5.0 - 9.0% of mass 174	6.2 (7.6)1
176	95.0 - 101% of mass 174	80.3 (98.3)1
177	5.0 - 9.0% of mass 176	5.6 (7)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1428497-2CCAL	WG1428497-2	V05201029N01	10/29/20 17:16
WG1428497-3LCS	WG1428497-3	V05201029N01	10/29/20 17:16
WG1428497-4LCSD	WG1428497-4	V05201029N02	10/29/20 17:39
WG1428497-5BLANK	WG1428497-5	V05201029N05	10/29/20 18:49
MW-3	L2046790-03D	V05201029N24	10/30/20 02:12

Instrument Performance Check (Tune) Summary
Form 5
Volatiles
Bromofluorobenzene (BFB)

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: VOA108	**Analysis Date**	: 10/13/20 13:18
Tune Standard	: WG1422060-1	**Tune File ID**	: V08201013ABF3_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	20.5
75	30.0 - 60.0% of mass 95	51.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.8 (1)1
174	Greater than 50.0 of mass 95	79.3
175	5.0 - 9.0% of mass 174	6.5 (8.2)1
176	95.0 - 101% of mass 174	79 (99.6)1
177	5.0 - 9.0% of mass 176	5.7 (7.2)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STDL0.19PP	R1361109-1	V08201013A04	10/13/20 15:01
STDL0.5PPB	R1361109-2	V08201013A06	10/13/20 15:45
STDL2PPB	R1361109-3	V08201013A08	10/13/20 16:29
STDL10PPB	R1361109-4	V08201013A09	10/13/20 16:51
STDL30PPB	R1361109-5	V08201013A10	10/13/20 17:13
STDL80PPB	R1361109-6	V08201013A11	10/13/20 17:35
STDL120PPB	R1361109-8	V08201013A12	10/13/20 17:57
STDL200PPB	R1361109-7	V08201013A13	10/13/20 18:19
ICV Quant Report	R1361109-10	V08201013A19	10/13/20 20:31

Instrument Performance Check (Tune) Summary
Form 5
Volatiles
Bromofluorobenzene (BFB)

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: VOA108	**Analysis Date**	: 10/14/20 13:19
Tune Standard	: WG1422060-2	**Tune File ID**	: V08201014ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	19.6
75	30.0 - 60.0% of mass 95	51.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	1 (1.2)1
174	Greater than 50.0 of mass 95	81.6
175	5.0 - 9.0% of mass 174	6.4 (7.8)1
176	95.0 - 101% of mass 174	78.3 (95.9)1
177	5.0 - 9.0% of mass 176	5.6 (7.2)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ICV Quant Report	R1361109-9	V08201014A02	10/14/20 14:04

Instrument Performance Check (Tune) Summary
Form 5
Volatiles
Bromofluorobenzene (BFB)

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: VOA108	**Analysis Date**	: 10/29/20 07:47
Tune Standard	: WG1428085-1	**Tune File ID**	: V08201029ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	21
75	30.0 - 60.0% of mass 95	57.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.7
173	Less than 2.0% of mass 174	0.5 (.6)1
174	Greater than 50.0 of mass 95	76.5
175	5.0 - 9.0% of mass 174	5.6 (7.4)1
176	95.0 - 101% of mass 174	74.3 (97.2)1
177	5.0 - 9.0% of mass 176	5.1 (6.9)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1428085-2CCAL	WG1428085-2	V08201029A01	10/29/20 08:10
WG1428085-3LCS	WG1428085-3	V08201029A01	10/29/20 08:10
WG1428085-4LCSD	WG1428085-4	V08201029A02	10/29/20 08:32
WG1428085-5BLANK	WG1428085-5	V08201029A05	10/29/20 09:38
MW-2	L2046790-02	V08201029A06	10/29/20 09:59
TWP-1	L2046790-04	V08201029A07	10/29/20 10:21

Internal Standard Area and RT Summary
Form 8a
Volatiles

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: VOA105	**Analysis Date**	: 10/28/20 17:58:00
Sample No	: WG1428076-2	**Lab File ID**	: V05201028N01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1428076-2	321491	5.95	246441	9.46	126798	12.17
Upper Limit	642982	6.45	492882	9.96	253596	12.67
Lower Limit	160746	5.45	123221	8.96	63399	11.67
Sample ID						
WG1428076-3 LCS	321491	5.95	246441	9.46	126798	12.17
WG1428076-4 LCSD	332791	5.95	255912	9.46	130156	12.17
WG1428076-5 BLANK	326371	5.95	249544	9.46	122090	12.18
MW-1	342150	5.95	265269	9.46	130706	12.18
MW-3	339601	5.95	261221	9.46	130206	12.18

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Volatiles

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: VOA108	**Analysis Date**	: 10/29/20 08:10:00
Sample No	: WG1428085-2	**Lab File ID**	: V08201029A01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1428085-2	152206	5.38	101386	8.42	48766	9.91
Upper Limit	304412	5.88	202772	8.92	97532	10.41
Lower Limit	76103	4.88	50693	7.92	24383	9.41
Sample ID						
WG1428085-3 LCS	152206	5.38	101386	8.42	48766	9.91
WG1428085-4 LCSD	145621	5.38	107598	8.42	53247	9.91
WG1428085-5 BLANK	143107	5.38	98582	8.42	45141	9.92
MW-2	132583	5.39	94152	8.42	45287	9.92
TWP-1	136793	5.38	96997	8.42	45872	9.92

Area Upper Limit = +100% of internal standard area

Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT

RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Volatiles

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: VOA105	**Analysis Date**	: 10/29/20 17:16:00
Sample No	: WG1428497-2	**Lab File ID**	: V05201029N01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1428497-2	327904	5.95	254770	9.46	130144	12.17
Upper Limit	655808	6.45	509540	9.96	260288	12.67
Lower Limit	163952	5.45	127385	8.96	65072	11.67
Sample ID						
WG1428497-3 LCS	327904	5.95	254770	9.46	130144	12.17
WG1428497-4 LCSD	322279	5.95	248126	9.46	128980	12.17
WG1428497-5 BLANK	322943	5.95	249352	9.46	121646	12.17
MW-3	302873	5.95	233849	9.46	113050	12.18

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

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Volatile Organics - EPA 8260C (WATER)

Holding Time: 14 days
Container / Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	3	0.678	ug/l	70-130	20	70-130	20	20			
1,1-Dichloroethane	75-34-3	0.75	0.210	ug/l	70-130	20	70-130	20	20			
Chloroform	67-66-3	0.75	0.222	ug/l	70-130	20	70-130	20	20			
Carbon tetrachloride	56-23-5	0.5	0.134	ug/l	63-132	20	63-132	20	20			
1,2-Dichloropropane	78-87-5	1.75	0.137	ug/l	70-130	20	70-130	20	20			
Dibromochloromethane	124-48-1	0.5	0.149	ug/l	63-130	20	63-130	20	20			
1,1,2-Trichloroethane	79-00-5	0.75	0.144	ug/l	70-130	20	70-130	20	20			
Tetrachloroethene	127-18-4	0.5	0.181	ug/l	70-130	20	70-130	20	20			
Chlorobenzene	108-90-7	0.5	0.178	ug/l	75-130	25	75-130	25	25			
Trichlorofluoromethane	75-69-4	2.5	0.161	ug/l	62-150	20	62-150	20	20			
1,2-Dichloroethane	107-06-2	0.5	0.132	ug/l	70-130	20	70-130	20	20			
1,1,1-Trichloroethane	71-55-6	0.5	0.158	ug/l	67-130	20	67-130	20	20			
Bromodichloromethane	75-27-4	0.5	0.192	ug/l	67-130	20	67-130	20	20			
trans-1,3-Dichloropropene	10061-02-6	0.5	0.164	ug/l	70-130	20	70-130	20	20			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.144	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20			
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20			
1,1-Dichloropropene	563-58-6	2.5	0.240	ug/l	70-130	20	70-130	20	20			
Bromoform	75-25-2	2	0.248	ug/l	54-136	20	54-136	20	20			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.167	ug/l	67-130	20	67-130	20	20			
Benzene	71-43-2	0.5	0.159	ug/l	70-130	25	70-130	25	25			
Toluene	108-88-3	0.75	0.203	ug/l	70-130	25	70-130	25	25			
Ethylbenzene	100-41-4	0.5	0.167	ug/l	70-130	20	70-130	20	20			
Chloromethane	74-87-3	2.5	0.200	ug/l	64-130	20	64-130	20	20			
Bromomethane	74-83-9	1	0.256	ug/l	39-139	20	39-139	20	20			
Vinyl chloride	75-01-4	1	0.0714	ug/l	55-140	20	55-140	20	20			
Chloroethane	75-00-3	1	0.134	ug/l	55-138	20	55-138	20	20			
1,1-Dichloroethene	75-35-4	0.5	0.169	ug/l	61-145	25	61-145	25	25			
trans-1,2-Dichloroethene	156-60-5	0.75	0.163	ug/l	70-130	20	70-130	20	20			
1,2-Dichloroethene (total)	540-59-0	0.5	0.163	ug/l				20	20			
1,2-Dichloroethene (total)	540-59-0	0.5	0.163	ug/l				20	20			
Trichloroethene	79-01-6	0.5	0.175	ug/l	70-130	25	70-130	25	25			
1,2-Dichlorobenzene	95-50-1	2.5	0.184	ug/l	70-130	20	70-130	20	20			
1,3-Dichlorobenzene	541-73-1	2.5	0.186	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobenzene	106-46-7	2.5	0.187	ug/l	70-130	20	70-130	20	20			
Methyl tert butyl ether	1634-04-4	1	0.166	ug/l	63-130	20	63-130	20	20			
p/m-Xylene	179601-23-1	1	0.332	ug/l	70-130	20	70-130	20	20			
o-Xylene	95-47-6	1	0.392	ug/l	70-130	20	70-130	20	20			
Xylene (Total)	1330-20-7	1	0.330	ug/l				20	20			
Xylene (Total)	1330-20-7	1	0.330	ug/l				20	20			
cis-1,2-Dichloroethene	156-59-2	0.5	0.187	ug/l	70-130	20	70-130	20	20			
Dibromomethane	74-95-3	5	0.363	ug/l	70-130	20	70-130	20	20			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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Volatile Organics - EPA 8260C (WATER)

Holding Time: 14 days
Container / Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dichlorobutane	110-56-5	5	0.464	ug/l	70-130	20	70-130	20	20			
1,2,3-Trichloropropane	96-18-4	5	0.176	ug/l	64-130	20	64-130	20	20			
Styrene	100-42-5	1	0.359	ug/l	70-130	20	70-130	20	20			
Dichlorodifluoromethane	75-71-8	5	0.244	ug/l	36-147	20	36-147	20	20			
Acetone	67-64-1	5	1.46	ug/l	58-148	20	58-148	20	20			
Carbon disulfide	75-15-0	5	0.299	ug/l	51-130	20	51-130	20	20			
2-Butanone	78-93-3	5	1.94	ug/l	63-138	20	63-138	20	20			
Vinyl acetate	108-05-4	5	0.311	ug/l	70-130	20	70-130	20	20			
4-Methyl-2-pentanone	108-10-1	5	0.416	ug/l	59-130	20	59-130	20	20			
2-Hexanone	591-78-6	5	0.515	ug/l	57-130	20	57-130	20	20			
Ethyl methacrylate	97-63-2	5	0.606	ug/l	70-130	20	70-130	20	20			
Acrylonitrile	107-13-1	5	0.430	ug/l	70-130	20	70-130	20	20			
Bromochloromethane	74-97-5	2.5	0.152	ug/l	70-130	20	70-130	20	20			
Tetrahydrofuran	109-99-9	5	0.525	ug/l	58-130	20	58-130	20	20			
2,2-Dichloropropane	594-20-7	2.5	0.204	ug/l	63-133	20	63-133	20	20			
1,2-Dibromoethane	106-93-4	2	0.193	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropane	142-28-9	2.5	0.212	ug/l	70-130	20	70-130	20	20			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.164	ug/l	64-130	20	64-130	20	20			
Bromobenzene	108-86-1	2.5	0.152	ug/l	70-130	20	70-130	20	20			
n-Butylbenzene	104-51-8	0.5	0.192	ug/l	53-136	20	53-136	20	20			
sec-Butylbenzene	135-98-8	0.5	0.181	ug/l	70-130	20	70-130	20	20			
tert-Butylbenzene	98-06-6	2.5	0.196	ug/l	70-130	20	70-130	20	20			
o-Chlorotoluene	95-49-8	2.5	0.215	ug/l	70-130	20	70-130	20	20			
p-Chlorotoluene	106-43-4	2.5	0.185	ug/l	70-130	20	70-130	20	20			
1,2-Dibromo-3-chloropropane	96-12-8	2.5	0.353	ug/l	41-144	20	41-144	20	20			
Hexachlorobutadiene	87-68-3	0.5	0.217	ug/l	63-130	20	63-130	20	20			
Isopropylbenzene	98-82-8	0.5	0.187	ug/l	70-130	20	70-130	20	20			
p-Isopropyltoluene	99-87-6	0.5	0.188	ug/l	70-130	20	70-130	20	20			
Naphthalene	91-20-3	2.5	0.216	ug/l	70-130	20	70-130	20	20			
n-Propylbenzene	103-65-1	0.5	0.173	ug/l	69-130	20	69-130	20	20			
1,2,3-Trichlorobenzene	87-61-6	2.5	0.234	ug/l	70-130	20	70-130	20	20			
1,2,4-Trichlorobenzene	120-82-1	2.5	0.220	ug/l	70-130	20	70-130	20	20			
1,3,5-Trimethylbenzene	108-67-8	2.5	0.217	ug/l	64-130	20	64-130	20	20			
1,3,5-Trichlorobenzene	108-70-3	2	0.141	ug/l	70-130	20	70-130	20	20			
1,2,4-Trimethylbenzene	95-63-6	2.5	0.191	ug/l	70-130	20	70-130	20	20			
trans-1,4-Dichloro-2-butene	110-57-6	2.5	0.213	ug/l	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	2.5	0.163	ug/l	59-134	20	59-134	20	20			
Methyl Acetate	79-20-9	10	0.234	ug/l	70-130	20	70-130	20	20			
Ethyl Acetate	141-78-6	10	0.716	ug/l	70-130	20	70-130	20	20			
Isopropyl Ether	108-20-3	2	0.425	ug/l	70-130	20	70-130	20	20			
Cyclohexane	110-82-7	10	0.271	ug/l	70-130	20	70-130	20	20			
Ethyl-Tert-Butyl-Ether	637-92-3	2	0.179	ug/l	70-130	20	70-130	20	20			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Volatile Organics - EPA 8260C (WATER)

Holding Time: 14 days
Container / Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Tertiary-Amyl Methyl Ether	994-05-8	2	0.278	ug/l	66-130	20	66-130	20	20			
1,4-Dioxane	123-91-1	250	60.8	ug/l	56-162	20	56-162	20	20			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	10	0.148	ug/l	70-130	20	70-130	20	20			
Methyl cyclohexane	108-87-2	10	0.396	ug/l	70-130	20	70-130	20	20			
1,4-Diethylbenzene	105-05-5	2	0.392	ug/l	70-130	20	70-130	20	20			
4-Ethyltoluene	622-96-8	2	0.340	ug/l	70-130	20	70-130	20	20			
1,2,4,5-Tetramethylbenzene	95-93-2	2	0.542	ug/l	70-130	20	70-130	20	20			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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Volatile Organics - EPA 8260C (SOIL-LOW)

Holding Time: 14 days
Container / Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	5	2.29	ug/kg	70-130	30	70-130	30	30			
1,1-Dichloroethane	75-34-3	1	0.145	ug/kg	70-130	30	70-130	30	30			
Chloroform	67-66-3	1.5	0.140	ug/kg	70-130	30	70-130	30	30			
Carbon tetrachloride	56-23-5	1	0.230	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloropropane	78-87-5	1	0.125	ug/kg	70-130	30	70-130	30	30			
Dibromochloromethane	124-48-1	1	0.140	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloroethane	79-00-5	1	0.267	ug/kg	70-130	30	70-130	30	30			
Tetrachloroethene	127-18-4	0.5	0.196	ug/kg	70-130	30	70-130	30	30			
Chlorobenzene	108-90-7	0.5	0.127	ug/kg	70-130	30	70-130	30	30			
Trichlorofluoromethane	75-69-4	4	0.695	ug/kg	70-139	30	70-139	30	30			
1,2-Dichloroethane	107-06-2	1	0.257	ug/kg	70-130	30	70-130	30	30			
1,1,1-Trichloroethane	71-55-6	0.5	0.167	ug/kg	70-130	30	70-130	30	30			
Bromodichloromethane	75-27-4	0.5	0.109	ug/kg	70-130	30	70-130	30	30			
trans-1,3-Dichloropropene	10061-02-6	1	0.273	ug/kg	70-130	30	70-130	30	30			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.158	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropene, Total	542-75-6	0.5	0.158	ug/kg				30	30			
1,3-Dichloropropene, Total	542-75-6	0.5	0.158	ug/kg				30	30			
1,1-Dichloropropene	563-58-6	0.5	0.159	ug/kg	70-130	30	70-130	30	30			
Bromoform	75-25-2	4	0.246	ug/kg	70-130	30	70-130	30	30			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Benzene	71-43-2	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Toluene	108-88-3	1	0.543	ug/kg	70-130	30	70-130	30	30			
Ethylbenzene	100-41-4	1	0.141	ug/kg	70-130	30	70-130	30	30			
Chloromethane	74-87-3	4	0.932	ug/kg	52-130	30	52-130	30	30			
Bromomethane	74-83-9	2	0.581	ug/kg	57-147	30	57-147	30	30			
Vinyl chloride	75-01-4	1	0.335	ug/kg	67-130	30	67-130	30	30			
Chloroethane	75-00-3	2	0.452	ug/kg	50-151	30	50-151	30	30			
1,1-Dichloroethene	75-35-4	1	0.238	ug/kg	65-135	30	65-135	30	30			
trans-1,2-Dichloroethene	156-60-5	1.5	0.137	ug/kg	70-130	30	70-130	30	30			
Trichloroethene	79-01-6	0.5	0.137	ug/kg	70-130	30	70-130	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.144	ug/kg	70-130	30	70-130	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.148	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.171	ug/kg	70-130	30	70-130	30	30			
Methyl tert butyl ether	1634-04-4	2	0.201	ug/kg	66-130	30	66-130	30	30			
p/m-Xylene	179601-23-1	2	0.560	ug/kg	70-130	30	70-130	30	30			
o-Xylene	95-47-6	1	0.291	ug/kg	70-130	30	70-130	30	30			
Xylene (Total)	1330-20-7	1	0.291	ug/kg				30	30			
Xylene (Total)	1330-20-7	1	0.291	ug/kg				30	30			
cis-1,2-Dichloroethene	156-59-2	1	0.175	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethene (total)	540-59-0	1	0.137	ug/kg				30	30			
1,2-Dichloroethene (total)	540-59-0	1	0.137	ug/kg				30	30			
Dibromomethane	74-95-3	2	0.238	ug/kg	70-130	30	70-130	30	30			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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Volatile Organics - EPA 8260C (SOIL-LOW)

Holding Time: 14 days
Container / Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dichlorobutane	110-56-5	10	0.226	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichloropropane	96-18-4	2	0.127	ug/kg	68-130	30	68-130	30	30			
Styrene	100-42-5	1	0.196	ug/kg	70-130	30	70-130	30	30			
Dichlorodifluoromethane	75-71-8	10	0.915	ug/kg	30-146	30	30-146	30	30			
Acetone	67-64-1	10	4.81	ug/kg	54-140	30	54-140	30	30			
Carbon disulfide	75-15-0	10	4.55	ug/kg	59-130	30	59-130	30	30			
2-Butanone	78-93-3	10	2.22	ug/kg	70-130	30	70-130	30	30			
Vinyl acetate	108-05-4	10	2.15	ug/kg	70-130	30	70-130	30	30			
4-Methyl-2-pentanone	108-10-1	10	1.28	ug/kg	70-130	30	70-130	30	30			
2-Hexanone	591-78-6	10	1.18	ug/kg	70-130	30	70-130	30	30			
Ethyl methacrylate	97-63-2	10	1.58	ug/kg	70-130	30	70-130	30	30			
Acrylonitrile	107-13-1	4	1.15	ug/kg	70-130	30	70-130	30	30			
Bromochloromethane	74-97-5	2	0.205	ug/kg	70-130	30	70-130	30	30			
Tetrahydrofuran	109-99-9	4	1.59	ug/kg	66-130	30	66-130	30	30			
2,2-Dichloropropane	594-20-7	2	0.202	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromoethane	106-93-4	1	0.279	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropane	142-28-9	2	0.167	ug/kg	69-130	30	69-130	30	30			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.132	ug/kg	70-130	30	70-130	30	30			
Bromobenzene	108-86-1	2	0.145	ug/kg	70-130	30	70-130	30	30			
n-Butylbenzene	104-51-8	1	0.167	ug/kg	70-130	30	70-130	30	30			
sec-Butylbenzene	135-98-8	1	0.146	ug/kg	70-130	30	70-130	30	30			
tert-Butylbenzene	98-06-6	2	0.118	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trichlorobenzene	108-70-3	2	0.173	ug/kg	70-139	30	70-130	30	30			
o-Chlorotoluene	95-49-8	2	0.191	ug/kg	70-130	30	70-130	30	30			
p-Chlorotoluene	106-43-4	2	0.108	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromo-3-chloropropane	96-12-8	3	0.998	ug/kg	68-130	30	68-130	30	30			
Hexachlorobutadiene	87-68-3	4	0.169	ug/kg	67-130	30	67-130	30	30			
Isopropylbenzene	98-82-8	1	0.109	ug/kg	70-130	30	70-130	30	30			
p-Isopropyltoluene	99-87-6	1	0.109	ug/kg	70-130	30	70-130	30	30			
Naphthalene	91-20-3	4	0.650	ug/kg	70-130	30	70-130	30	30			
n-Propylbenzene	103-65-1	1	0.171	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichlorobenzene	87-61-6	2	0.322	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trichlorobenzene	120-82-1	2	0.272	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trimethylbenzene	108-67-8	2	0.193	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trimethylbenzene	95-63-6	2	0.334	ug/kg	70-130	30	70-130	30	30			
trans-1,4-Dichloro-2-butene	110-57-6	5	1.42	ug/kg	70-130	30	70-130	30	30			
iso-Propyl Alcohol	67-63-0	100	100	ug/kg	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	2	0.341	ug/kg	67-130	30	67-130	30	30			
Methyl Acetate	79-20-9	4	0.950	ug/kg	65-130	30	65-130	30	30			
Ethyl Acetate	141-78-6	10	1.21	ug/kg	70-130	30	70-130	30	30			
Isopropyl Ether	108-20-3	2	0.213	ug/kg	66-130	30	66-130	30	30			
Cyclohexane	110-82-7	10	0.544	ug/kg	70-130	30	70-130	30	30			

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Volatile Organics - EPA 8260C (SOIL-LOW)

Holding Time: 14 days
Container/Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Ethyl-Tert-Butyl-Ether	637-92-3	2	0.128	ug/kg	70-130	30	70-130	30	30			
Tertiary-Amyl Methyl Ether	994-05-8	2	0.176	ug/kg	70-130	30	70-130	30	30			
1,4-Dioxane	123-91-1	100	35.1	ug/kg	65-136	30	65-136	30	30			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	4	0.693	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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Volatile Organics - EPA 8260C (SOIL-HIGH)

Holding Time: 14 days
Container / Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	250	115	ug/kg	70-130	30	70-130	30	30			
1,1-Dichloroethane	75-34-3	50	7.25	ug/kg	70-130	30	70-130	30	30			
Chloroform	67-66-3	75	7.00	ug/kg	70-130	30	70-130	30	30			
Carbon tetrachloride	56-23-5	50	11.5	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloropropane	78-87-5	50	6.25	ug/kg	70-130	30	70-130	30	30			
Dibromochloromethane	124-48-1	50	7.00	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloroethane	79-00-5	50	13.4	ug/kg	70-130	30	70-130	30	30			
Tetrachloroethene	127-18-4	25	9.80	ug/kg	70-130	30	70-130	30	30			
Chlorobenzene	108-90-7	25	6.35	ug/kg	70-130	30	70-130	30	30			
Trichlorofluoromethane	75-69-4	200	34.8	ug/kg	70-139	30	70-139	30	30			
1,2-Dichloroethane	107-06-2	50	12.9	ug/kg	70-130	30	70-130	30	30			
1,1,1-Trichloroethane	71-55-6	25	8.35	ug/kg	70-130	30	70-130	30	30			
Bromodichloromethane	75-27-4	25	5.45	ug/kg	70-130	30	70-130	30	30			
trans-1,3-Dichloropropene	10061-02-6	50	13.7	ug/kg	70-130	30	70-130	30	30			
cis-1,3-Dichloropropene	10061-01-5	25	7.90	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropene, Total	542-75-6	25	7.90	ug/kg				30	30			
1,3-Dichloropropene, Total	542-75-6	25	7.90	ug/kg				30	30			
1,1-Dichloropropene	563-58-6	25	7.95	ug/kg	70-130	30	70-130	30	30			
Bromoform	75-25-2	200	12.3	ug/kg	70-130	30	70-130	30	30			
1,1,2,2-Tetrachloroethane	79-34-5	25	8.30	ug/kg	70-130	30	70-130	30	30			
Benzene	71-43-2	25	8.30	ug/kg	70-130	30	70-130	30	30			
Toluene	108-88-3	50	27.2	ug/kg	70-130	30	70-130	30	30			
Ethylbenzene	100-41-4	50	7.05	ug/kg	70-130	30	70-130	30	30			
Chloromethane	74-87-3	200	46.6	ug/kg	52-130	30	52-130	30	30			
Bromomethane	74-83-9	100	29.1	ug/kg	57-147	30	57-147	30	30			
Vinyl chloride	75-01-4	50	16.8	ug/kg	67-130	30	67-130	30	30			
Chloroethane	75-00-3	100	22.6	ug/kg	50-151	30	50-151	30	30			
1,1-Dichloroethene	75-35-4	50	11.9	ug/kg	65-135	30	65-135	30	30			
trans-1,2-Dichloroethene	156-60-5	75	6.85	ug/kg	70-130	30	70-130	30	30			
Trichloroethene	79-01-6	25	6.85	ug/kg	70-130	30	70-130	30	30			
1,2-Dichlorobenzene	95-50-1	100	7.20	ug/kg	70-130	30	70-130	30	30			
1,3-Dichlorobenzene	541-73-1	100	7.40	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobenzene	106-46-7	100	8.55	ug/kg	70-130	30	70-130	30	30			
Methyl tert butyl ether	1634-04-4	100	10.1	ug/kg	66-130	30	66-130	30	30			
p/m-Xylene	179601-23-1	100	28.0	ug/kg	70-130	30	70-130	30	30			
o-Xylene	95-47-6	50	14.6	ug/kg	70-130	30	70-130	30	30			
Xylene (Total)	1330-20-7	50	14.6	ug/kg				30	30			
Xylene (Total)	1330-20-7	50	14.6	ug/kg				30	30			
cis-1,2-Dichloroethene	156-59-2	50	8.75	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethene (total)	540-59-0	50	6.85	ug/kg				30	30			
1,2-Dichloroethene (total)	540-59-0	50	6.85	ug/kg				30	30			
Dibromomethane	74-95-3	100	11.9	ug/kg	70-130	30	70-130	30	30			

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Volatile Organics - EPA 8260C (SOIL-HIGH)

Holding Time: 14 days
Container / Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dichlorobutane	110-56-5	500	11.3	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichloropropane	96-18-4	100	6.35	ug/kg	68-130	30	68-130	30	30			
Styrene	100-42-5	50	9.80	ug/kg	70-130	30	70-130	30	30			
Dichlorodifluoromethane	75-71-8	500	45.8	ug/kg	30-146	30	30-146	30	30			
Acetone	67-64-1	500	241	ug/kg	54-140	30	54-140	30	30			
Carbon disulfide	75-15-0	500	228	ug/kg	59-130	30	59-130	30	30			
2-Butanone	78-93-3	500	111	ug/kg	70-130	30	70-130	30	30			
Vinyl acetate	108-05-4	500	108	ug/kg	70-130	30	70-130	30	30			
4-Methyl-2-pentanone	108-10-1	500	64.0	ug/kg	70-130	30	70-130	30	30			
2-Hexanone	591-78-6	500	59.0	ug/kg	70-130	30	70-130	30	30			
Ethyl methacrylate	97-63-2	500	79.0	ug/kg	70-130	30	70-130	30	30			
Acrylonitrile	107-13-1	200	57.5	ug/kg	70-130	30	70-130	30	30			
Bromochloromethane	74-97-5	100	10.3	ug/kg	70-130	30	70-130	30	30			
Tetrahydrofuran	109-99-9	200	79.5	ug/kg	66-130	30	66-130	30	30			
2,2-Dichloropropane	594-20-7	100	10.1	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromoethane	106-93-4	50	14.0	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropane	142-28-9	100	8.35	ug/kg	69-130	30	69-130	30	30			
1,1,1,2-Tetrachloroethane	630-20-6	25	6.60	ug/kg	70-130	30	70-130	30	30			
Bromobenzene	108-86-1	100	7.25	ug/kg	70-130	30	70-130	30	30			
n-Butylbenzene	104-51-8	50	8.35	ug/kg	70-130	30	70-130	30	30			
sec-Butylbenzene	135-98-8	50	7.30	ug/kg	70-130	30	70-130	30	30			
tert-Butylbenzene	98-06-6	100	5.90	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trichlorobenzene	108-70-3	100	8.65	ug/kg	70-139	30	70-130	30	30			
o-Chlorotoluene	95-49-8	100	9.55	ug/kg	70-130	30	70-130	30	30			
p-Chlorotoluene	106-43-4	100	5.40	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromo-3-chloropropane	96-12-8	150	49.9	ug/kg	68-130	30	68-130	30	30			
Hexachlorobutadiene	87-68-3	200	8.45	ug/kg	67-130	30	67-130	30	30			
Isopropylbenzene	98-82-8	50	5.45	ug/kg	70-130	30	70-130	30	30			
p-Isopropyltoluene	99-87-6	50	5.45	ug/kg	70-130	30	70-130	30	30			
Naphthalene	91-20-3	200	32.5	ug/kg	70-130	30	70-130	30	30			
n-Propylbenzene	103-65-1	50	8.55	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichlorobenzene	87-61-6	100	16.1	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trichlorobenzene	120-82-1	100	13.6	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trimethylbenzene	108-67-8	100	9.65	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trimethylbenzene	95-63-6	100	16.7	ug/kg	70-130	30	70-130	30	30			
trans-1,4-Dichloro-2-butene	110-57-6	250	71.0	ug/kg	70-130	30	70-130	30	30			
iso-Propyl Alcohol	67-63-0	5000	5000	ug/kg	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	100	17.1	ug/kg	67-130	30	67-130	30	30			
Methyl Acetate	79-20-9	200	47.5	ug/kg	65-130	30	65-130	30	30			
Ethyl Acetate	141-78-6	500	60.5	ug/kg	70-130	30	70-130	30	30			
Isopropyl Ether	108-20-3	100	10.7	ug/kg	66-130	30	66-130	30	30			
Cyclohexane	110-82-7	500	27.2	ug/kg	70-130	30	70-130	30	30			

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Volatile Organics - EPA 8260C (SOIL-HIGH)

Holding Time: 14 days
Container / Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Ethyl-Tert-Butyl-Ether	637-92-3	100	6.40	ug/kg	70-130	30	70-130	30	30			
Tertiary-Amyl Methyl Ether	994-05-8	100	8.80	ug/kg	70-130	30	70-130	30	30			
1,4-Dioxane	123-91-1	5000	1755	ug/kg	65-136	30	65-136	30	30			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	200	34.7	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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Volatiles Sample Data

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-01	**Date Collected**	: 10/27/20 08:15
Client ID	: MW-1	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 02:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: PD
Lab File ID	: V05201028N23	**Instrument ID**	: VOA105
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	18	2.5	0.70	
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
127-18-4	Tetrachloroethene	62	0.50	0.18	
108-90-7	Chlorobenzene	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	0.34	0.50	0.18	J
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
67-64-1	Acetone	ND	5.0	1.5	U
78-93-3	2-Butanone	ND	5.0	1.9	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-01	**Date Collected**	: 10/27/20 08:15
Client ID	: MW-1	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 02:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: PD
Lab File ID	: V05201028N23	**Instrument ID**	: VOA105
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-02	**Date Collected**	: 10/27/20 09:30
Client ID	: MW-2	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 09:59
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: PD
Lab File ID	: V08201029A06	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	15	2.5	0.70	
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
127-18-4	Tetrachloroethene	0.82	0.50	0.18	
108-90-7	Chlorobenzene	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
67-64-1	Acetone	ND	5.0	1.5	U
78-93-3	2-Butanone	ND	5.0	1.9	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-02	**Date Collected**	: 10/27/20 09:30
Client ID	: MW-2	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 09:59
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: PD
Lab File ID	: V08201029A06	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-03	**Date Collected**	: 10/27/20 10:15
Client ID	: MW-3	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 02:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: PD
Lab File ID	: V05201028N24	**Instrument ID**	: VOA105
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	6.9	2.5	0.70	
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
127-18-4	Tetrachloroethene	240	0.50	0.18	E
108-90-7	Chlorobenzene	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	1.0	0.50	0.18	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
67-64-1	Acetone	ND	5.0	1.5	U
78-93-3	2-Butanone	ND	5.0	1.9	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-03	**Date Collected**	: 10/27/20 10:15
Client ID	: MW-3	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 02:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: PD
Lab File ID	: V05201028N24	**Instrument ID**	: VOA105
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-03D	**Date Collected**	: 10/27/20 10:15
Client ID	: MW-3	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/30/20 02:12
Sample Matrix	: WATER	**Dilution Factor**	: 4
Analytical Method	: 1,8260C	**Analyst**	: PD
Lab File ID	: V05201029N24	**Instrument ID**	: VOA105
Sample Amount	: 2.5 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
127-18-4	Tetrachloroethene	210	2.0	0.72	

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-04	**Date Collected**	: 10/27/20 08:45
Client ID	: TWP-1	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 10:21
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: PD
Lab File ID	: V08201029A07	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	9.2	2.5	0.70	
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
127-18-4	Tetrachloroethene	52	0.50	0.18	
108-90-7	Chlorobenzene	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	0.27	0.50	0.18	J
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
67-64-1	Acetone	ND	5.0	1.5	U
78-93-3	2-Butanone	ND	5.0	1.9	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-04	**Date Collected**	: 10/27/20 08:45
Client ID	: TWP-1	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 10:21
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: PD
Lab File ID	: V08201029A07	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Impact Environmental	Lab Number	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	Project Number	: 15209
Lab ID	: WG1428076-5	Date Collected	: NA
Client ID	: WG1428076-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 10/28/20 19:07
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: TMS
Lab File ID	: V05201028N04	Instrument ID	: VOA105
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
67-64-1	Acetone	ND	5.0	1.5	U
78-93-3	2-Butanone	ND	5.0	1.9	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: WG1428076-5	**Date Collected**	: NA
Client ID	: WG1428076-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 10/28/20 19:07
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: TMS
Lab File ID	: V05201028N04	**Instrument ID**	: VOA105
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Impact Environmental	Lab Number	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	Project Number	: 15209
Lab ID	: WG1428085-5	Date Collected	: NA
Client ID	: WG1428085-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 10/29/20 09:38
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: V08201029A05	Instrument ID	: VOA108
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
67-64-1	Acetone	ND	5.0	1.5	U
78-93-3	2-Butanone	ND	5.0	1.9	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: WG1428085-5	**Date Collected**	: NA
Client ID	: WG1428085-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 10/29/20 09:38
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: PD
Lab File ID	: V08201029A05	**Instrument ID**	: VOA108
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Impact Environmental	Lab Number	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	Project Number	: 15209
Lab ID	: WG1428497-5	Date Collected	: NA
Client ID	: WG1428497-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 10/29/20 18:49
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: LAC
Lab File ID	: V05201029N05	Instrument ID	: VOA105
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
67-64-1	Acetone	ND	5.0	1.5	U
78-93-3	2-Butanone	ND	5.0	1.9	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: WG1428497-5	**Date Collected**	: NA
Client ID	: WG1428497-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 10/29/20 18:49
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260C	**Analyst**	: LAC
Lab File ID	: V05201029N05	**Instrument ID**	: VOA105
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\201028N\
Data File : V05201028N23.d
Acq On : 29 Oct 2020 2:29 am
Operator : VOA105:PD
Sample : l2046790-01,31,10,10,,a
Misc : WG1428076,ICAL17185 (Sig #1); ,ICAL17185 (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 29 12:45:45 2020
Quant Method : I:\VOLATILES\VOA105\2020\201028N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\201028N\V05201028N01.d
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.948	96	342150	10.000 ug/L	0.00
Standard Area 1 = 321491			Recovery = 106.43%		
59) Chlorobenzene-d5	9.461	117	265269	10.000 ug/L	-0.01
Standard Area 1 = 246441			Recovery = 107.64%		
79) 1,4-Dichlorobenzene-d4	12.184	152	130706	10.000 ug/L	0.00
Standard Area 1 = 126798			Recovery = 103.08%		
System Monitoring Compounds					
36) Dibromofluoromethane	5.156	113	88174	9.503 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.03%		
43) 1,2-Dichloroethane-d4	5.674	65	107103	9.418 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.18%		
60) Toluene-d8	7.621	98	322788	9.827 ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.27%		
83) 4-Bromofluorobenzene	10.969	95	120406	10.289 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.89%		
Target Compounds					Qvalue
4) Vinyl chloride	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
15) Methylene chloride	0.000		0	N.D.	
17) Acetone	3.532	43	2114	1.240 ug/L #	73
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
20) Methyl tert-butyl ether	0.000		0	N.D.	
23) 1,1-Dichloroethane	0.000		0	N.D.	
28) cis-1,2-Dichloroethene	0.000		0	N.D.	
32) Chloroform	4.970	83	252440	17.840 ug/L #	93
34) Carbon tetrachloride	0.000		0	N.D. d	
37) 1,1,1-Trichloroethane	0.000		0	N.D.	
39) 2-Butanone	5.293	43	99	N.D.	
41) Benzene	0.000		0	N.D.	
44) 1,2-Dichloroethane	0.000		0	N.D.	
48) Trichloroethene	6.124	95	2932	0.343 ug/L	88
57) 1,4-Dioxane	0.000		0	N.D.	
61) Toluene	0.000		0	N.D.	
63) Tetrachloroethene	8.120	166	566415	62.302 ug/L	91
73) Chlorobenzene	0.000		0	N.D.	
74) Ethylbenzene	9.461	91	339	N.D.	

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Sample : l2046790-01,31,10,10,,a
Misc : WG1428076,ICAL17185 (Sig #1); ,ICAL17185 (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 29 12:45:45 2020
Quant Method : I:\VOLATILES\VOA105\2020\201028N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\201028N\V05201028N01.d
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
85) n-Propylbenzene	10.969	91	352		N.D.	
90) 1,3,5-Trimethylbenzene	0.000		0		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	
97) 1,2,4-Trimethylbenzene	0.000		0		N.D.	
98) sec-Butylbenzene	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	0.000		0		N.D.	
101) 1,4-Dichlorobenzene	0.000		0		N.D.	
103) n-Butylbenzene	0.000		0		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	

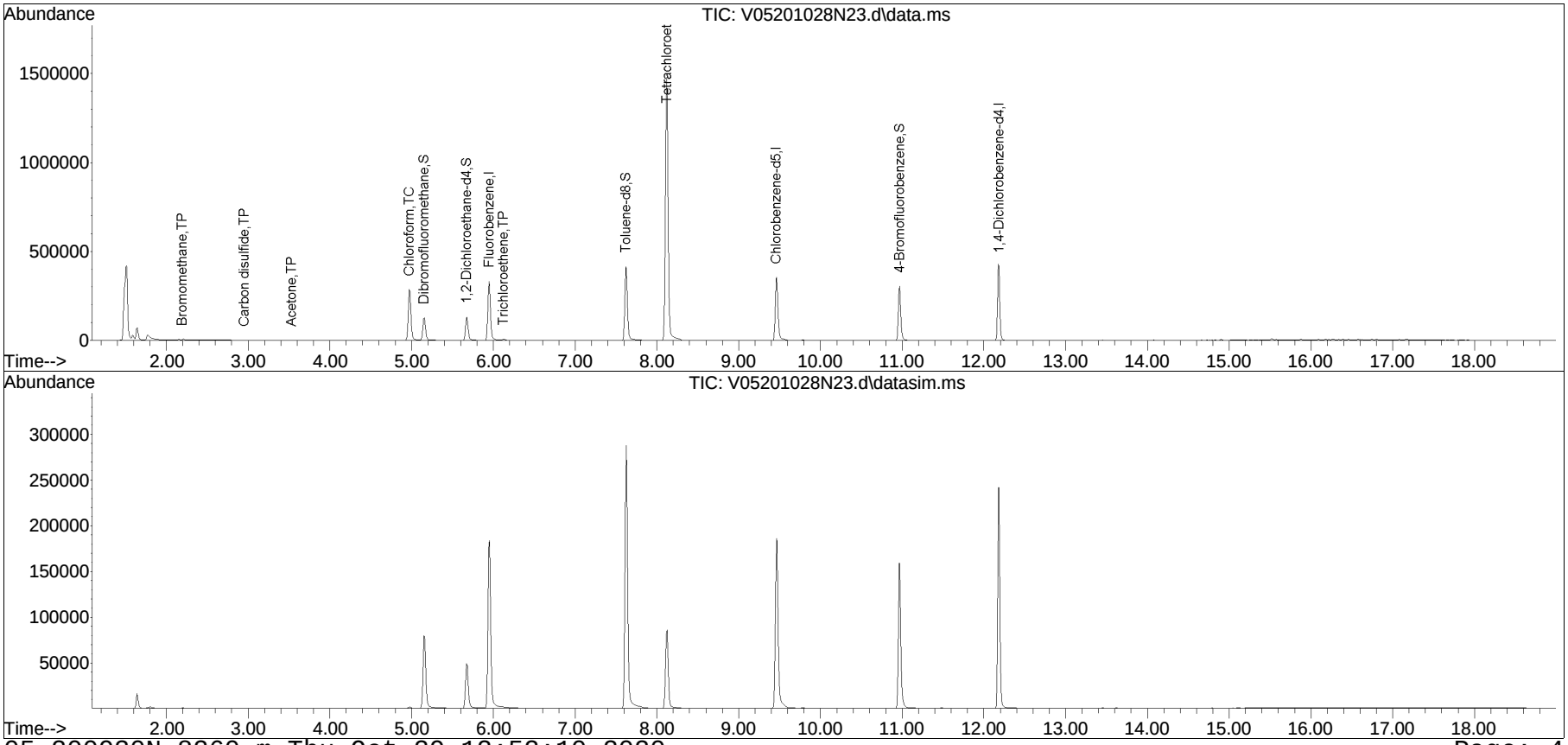
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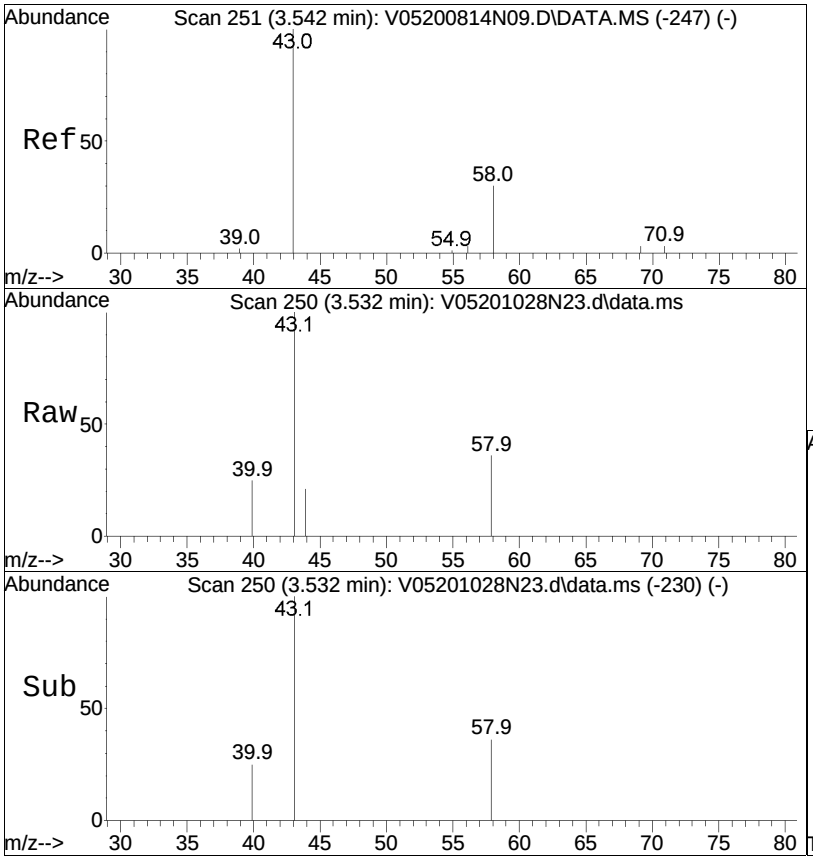
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\201028N\
Data File : V05201028N23.d
Acq On : 29 Oct 2020 2:29 am
Operator : VOA105:PD
Sample : l2046790-01,31,10,10,,a
Misc : WG1428076,ICAL17185 (Sig #1); ,ICAL17185 (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 29 12:45:45 2020
Quant Method : I:\VOLATILES\VOA105\2020\201028N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox01028N\V05201028N01.d•

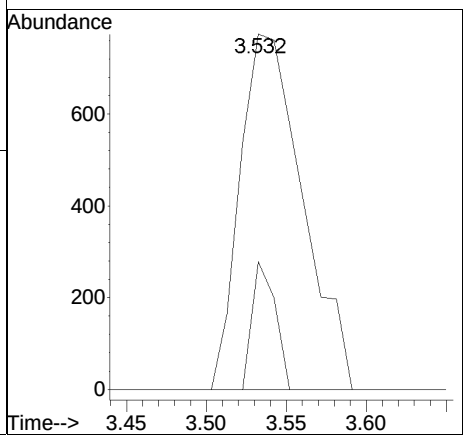


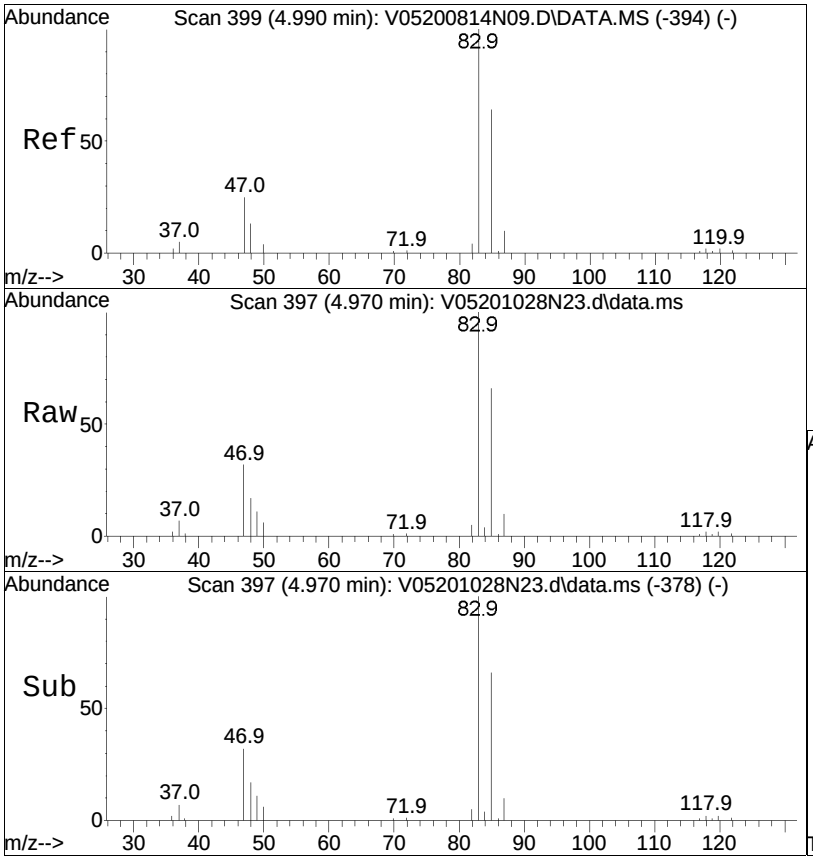


#17
Acetone
Concen: 1.24 ug/L
RT: 3.532 min Scan# 250
Delta R.T. -0.001 min
Lab File: V05201028N23.d
Acq: 29 Oct 2020 2:29 am

Tgt Ion: 43 Resp: 2114

Ion	Ratio	Lower	Upper
43	100		
58	13.3	22.0	33.0#

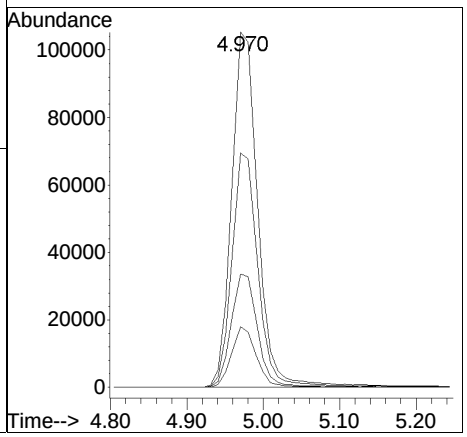


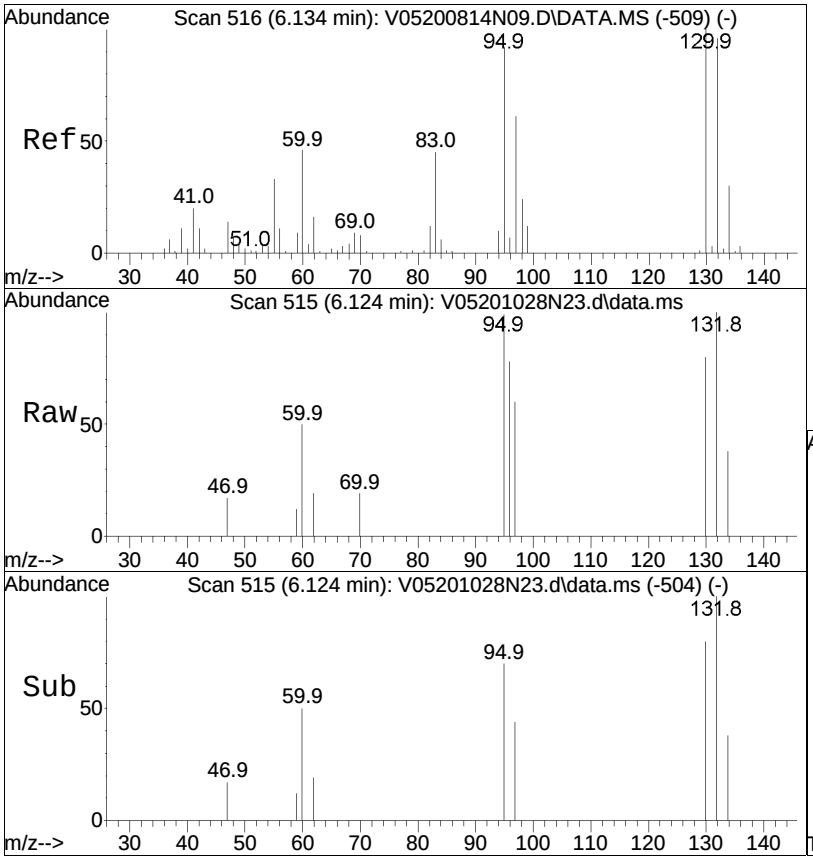


#32
Chloroform
Concen: 17.84 ug/L
RT: 4.970 min Scan# 397
Delta R.T. -0.010 min
Lab File: V05201028N23.d
Acq: 29 Oct 2020 2:29 am

Tgt Ion: 83 Resp: 252440

Ion	Ratio	Lower	Upper
83	100		
85	65.6	42.8	89.0
47	32.3	13.7	28.4#
48	16.3	6.9	14.3#

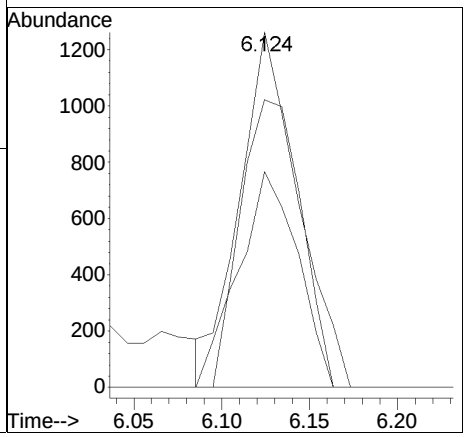


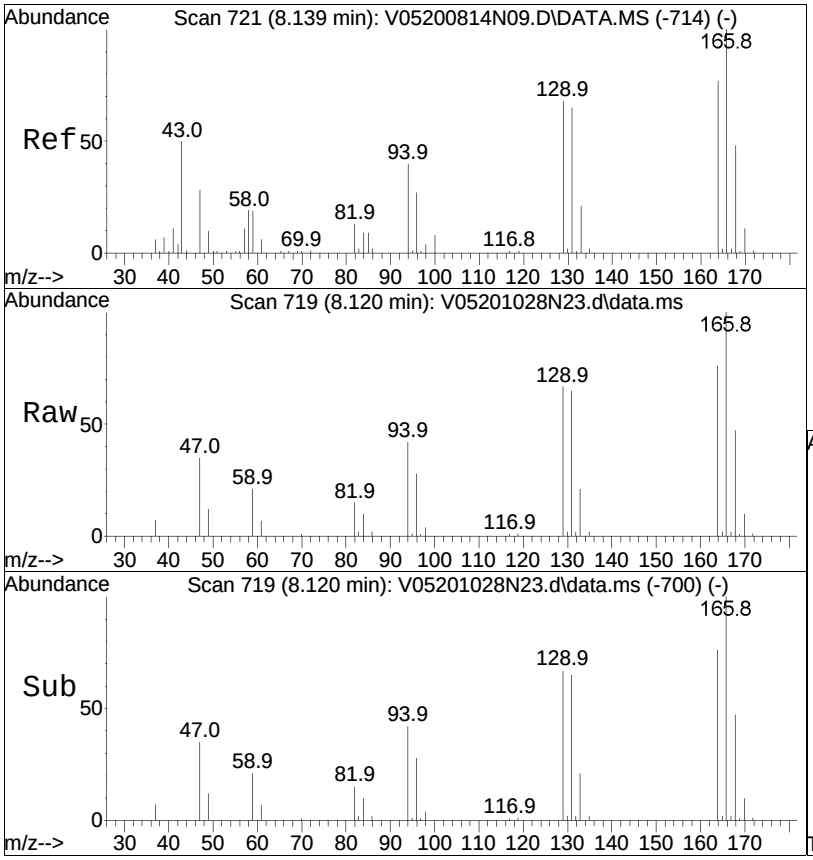


#48
Trichloroethene
Concen: 0.34 ug/L
RT: 6.124 min Scan# 515
Delta R.T. -0.010 min
Lab File: V05201028N23.d
Acq: 29 Oct 2020 2:29 am

Tgt Ion: 95 Resp: 2932

Ion	Ratio	Lower	Upper
95	100		
97	61.6	56.1	84.1
130	84.2	77.7	116.5

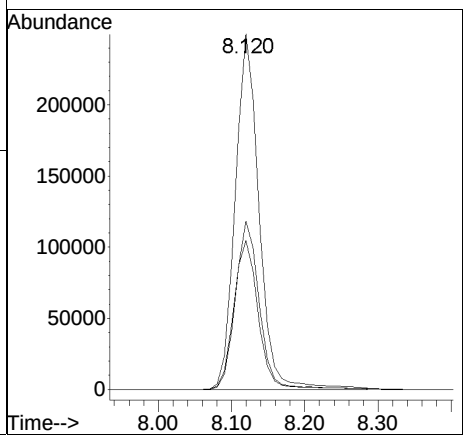




#63
Tetrachloroethene
Concen: 62.30 ug/L
RT: 8.120 min Scan# 719
Delta R.T. -0.010 min
Lab File: V05201028N23.d
Acq: 29 Oct 2020 2:29 am

Tgt Ion:166 Resp: 566415

Ion	Ratio	Lower	Upper
166	100		
168	47.7	30.2	70.2
94	43.1	32.5	72.5



Manual Integration Report

Data Path	: I:\VOLATILES\VOA105\2020\2	QMethod	: V105_200930N_8260.m
Data File	: V05201028N23.d	Operator	: VOA105:PD
Date Inj'd	: 10/29/2020 2:29 am	Instrument	: VOA 105
Sample	: l2046790-01,31,10,10,,a	Quant Date	: 10/29/2020 12:45 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\201028N\
Data File : V05201028N24.d
Acq On : 29 Oct 2020 2:53 am
Operator : VOA105:PD
Sample : l2046790-03,31,10,10,,a
Misc : WG1428076,ICAL17185 (Sig #1); ,ICAL17185 (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 29 12:46:32 2020
Quant Method : I:\VOLATILES\VOA105\2020\201028N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\201028N\V05201028N01.d
Sub List : 8260-NYTCL - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.948	96	339601	10.000 ug/L	0.00
Standard Area 1 = 321491			Recovery = 105.63%		
59) Chlorobenzene-d5	9.461	117	261221	10.000 ug/L	-0.01
Standard Area 1 = 246441			Recovery = 106.00%		
79) 1,4-Dichlorobenzene-d4	12.184	152	130206	10.000 ug/L	0.00
Standard Area 1 = 126798			Recovery = 102.69%		
System Monitoring Compounds					
36) Dibromofluoromethane	5.156	113	85846	9.321 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.21%		
43) 1,2-Dichloroethane-d4	5.675	65	104297	9.240 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.40%		
60) Toluene-d8	7.621	98	324561	10.034 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.34%		
83) 4-Bromofluorobenzene	10.970	95	117775	10.103 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.03%		
Target Compounds					Qvalue
4) Vinyl chloride	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
15) Methylene chloride	3.484	84	200	N.D.	
17) Acetone	3.533	43	1121	0.663 ug/L #	47
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
20) Methyl tert-butyl ether	0.000		0	N.D.	
23) 1,1-Dichloroethane	0.000		0	N.D.	
28) cis-1,2-Dichloroethene	4.716	96	2586	0.301 ug/L	95
32) Chloroform	4.980	83	96358	6.861 ug/L #	92
34) Carbon tetrachloride	0.000		0	N.D. d	
37) 1,1,1-Trichloroethane	0.000		0	N.D.	
39) 2-Butanone	0.000		0	N.D.	
41) Benzene	5.547	78	252	N.D.	
44) 1,2-Dichloroethane	0.000		0	N.D.	
48) Trichloroethene	6.125	95	8573	1.011 ug/L	89
57) 1,4-Dioxane	0.000		0	N.D.	
61) Toluene	0.000		0	N.D.	
63) Tetrachloroethene	8.120	166	2135582	238.539 ug/L	93
73) Chlorobenzene	0.000		0	N.D.	
74) Ethylbenzene	9.471	91	435	N.D.	

Data Path : I:\VOLATILES\VOA105\2020\201028N\
Data File : V05201028N24.d
Acq On : 29 Oct 2020 2:53 am
Operator : VOA105:PD
Sample : l2046790-03,31,10,10,,a
Misc : WG1428076,ICAL17185 (Sig #1); ,ICAL17185 (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 29 12:46:32 2020
Quant Method : I:\VOLATILES\VOA105\2020\201028N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\201028N\V05201028N01.d
Sub List : 8260-NYTCL - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	p/m Xylene	0.000		0		N.D.	
77)	o Xylene	0.000		0		N.D.	
85)	n-Propylbenzene	10.970	91	354		N.D.	
90)	1,3,5-Trimethylbenzene	0.000		0		N.D.	
94)	tert-Butylbenzene	0.000		0		N.D.	
97)	1,2,4-Trimethylbenzene	0.000		0		N.D.	
98)	sec-Butylbenzene	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	0.000		0		N.D.	
101)	1,4-Dichlorobenzene	0.000		0		N.D.	
103)	n-Butylbenzene	0.000		0		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	

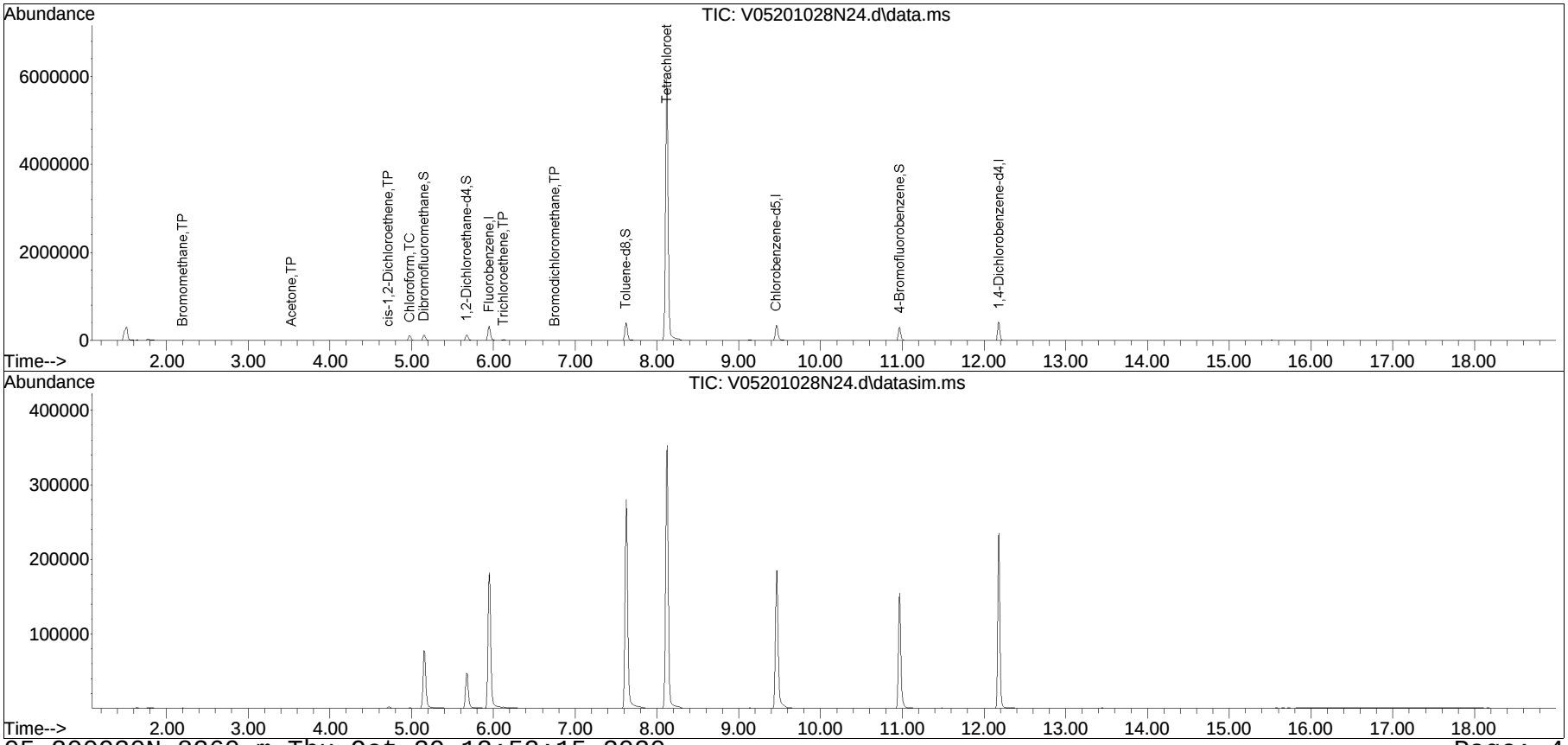
(#) = qualifier out of range (m) = manual integration (+) = signals summed

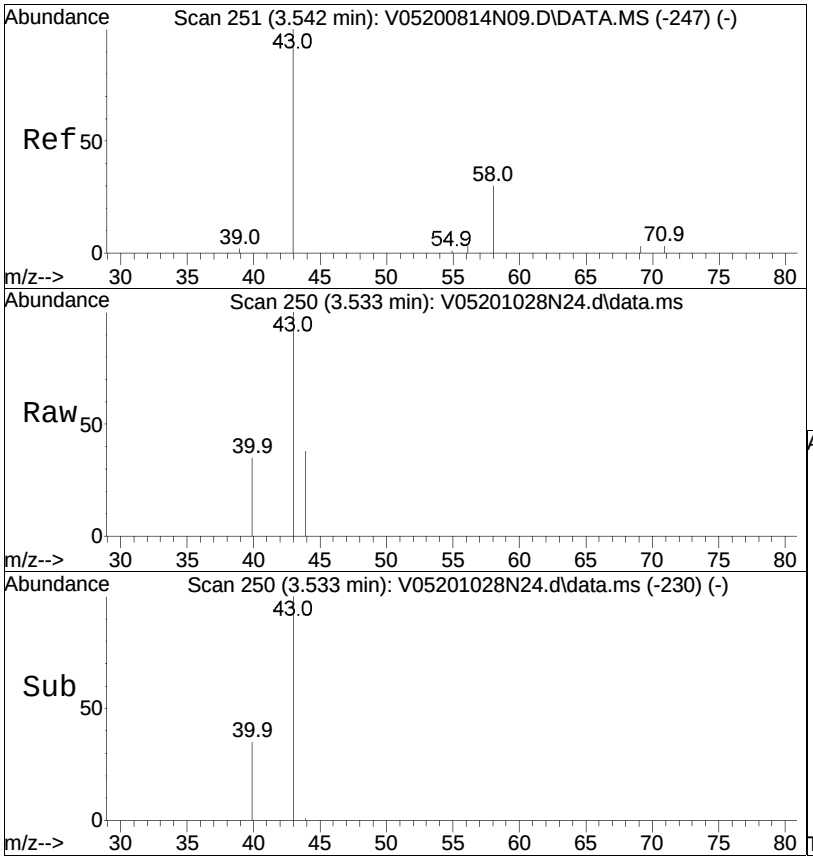
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\201028N\
Data File : V05201028N24.d
Acq On : 29 Oct 2020 2:53 am
Operator : VOA105:PD
Sample : l2046790-03,31,10,10,,a
Misc : WG1428076,ICAL17185 (Sig #1); ,ICAL17185 (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 29 12:46:32 2020
Quant Method : I:\VOLATILES\VOA105\2020\201028N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox01028N\V05201028N01.d•

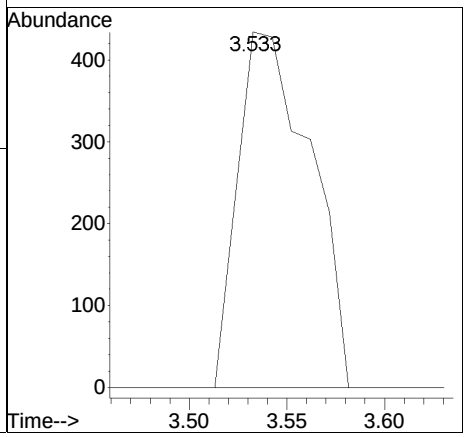


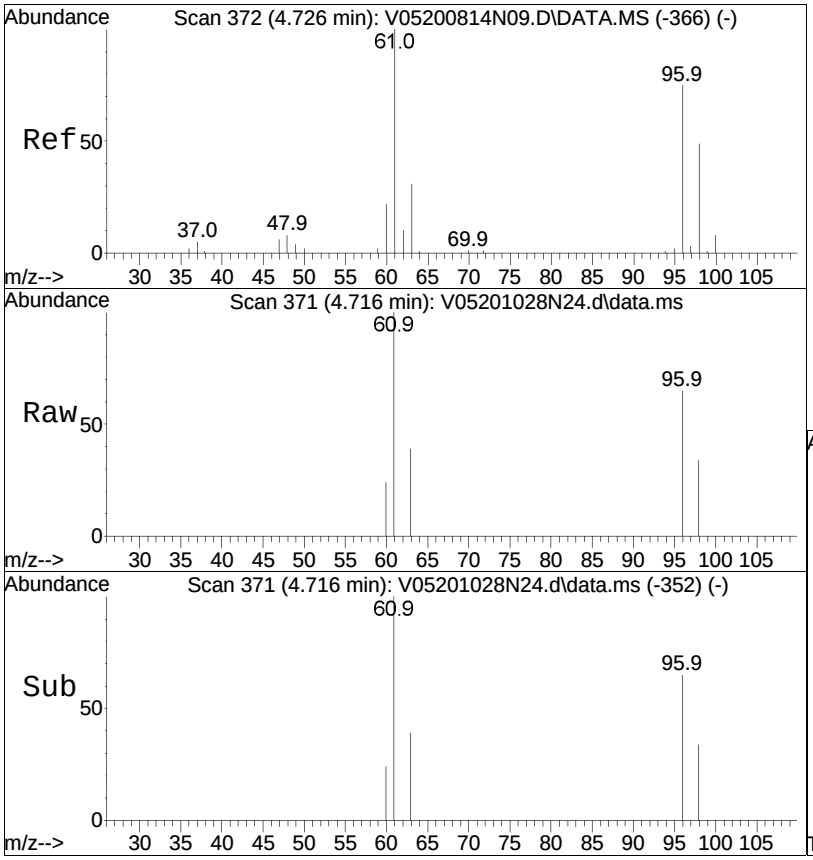


#17
Acetone
Concen: 0.66 ug/L
RT: 3.533 min Scan# 250
Delta R.T. -0.000 min
Lab File: V05201028N24.d
Acq: 29 Oct 2020 2:53 am

Tgt Ion: 43 Resp: 1121

Ion	Ratio	Lower	Upper
43	100		
58	0.0	22.0	33.0#

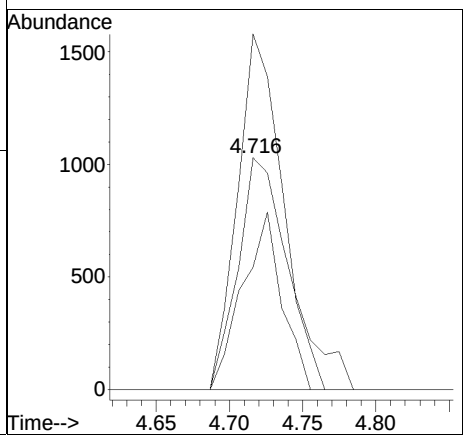


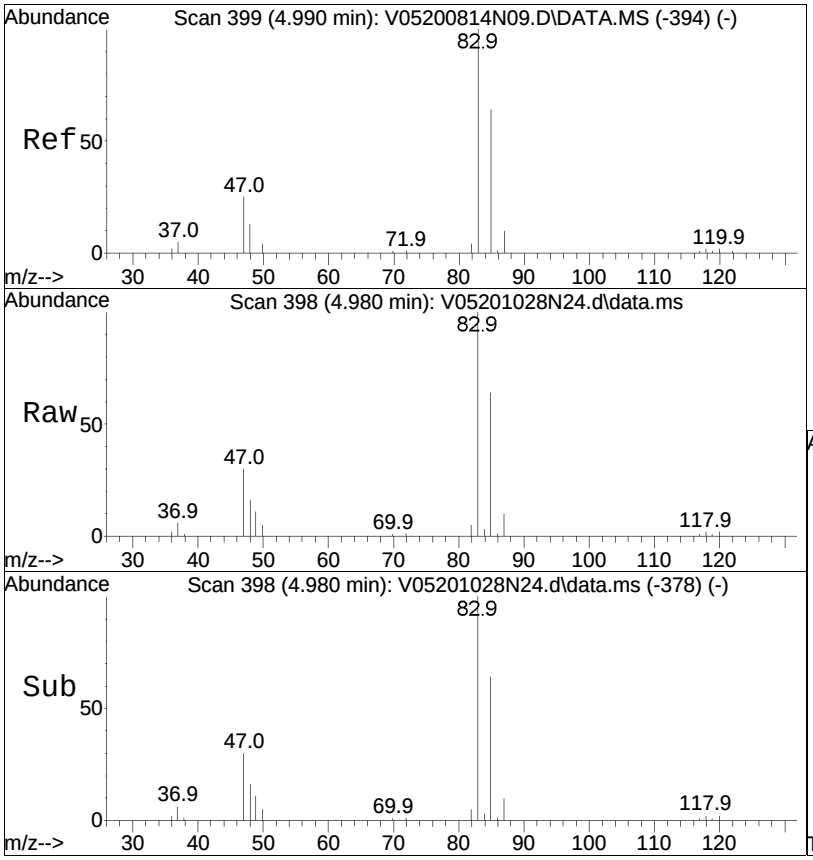


#28
cis-1,2-Dichloroethene
Concen: 0.30 ug/L
RT: 4.716 min Scan# 371
Delta R.T. -0.010 min
Lab File: V05201028N24.d
Acq: 29 Oct 2020 2:53 am

Tgt Ion: 96 Resp: 2586

Ion	Ratio	Lower	Upper
96	100		
61	130.2	100.5	150.7
98	57.0	49.8	74.8

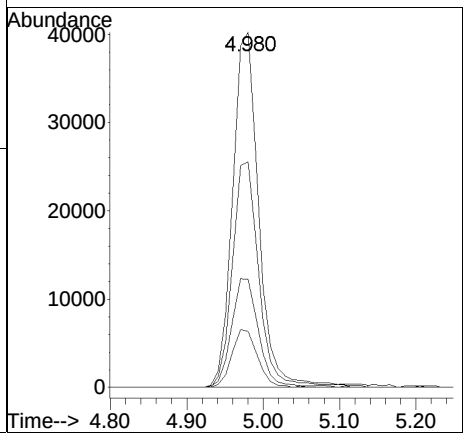


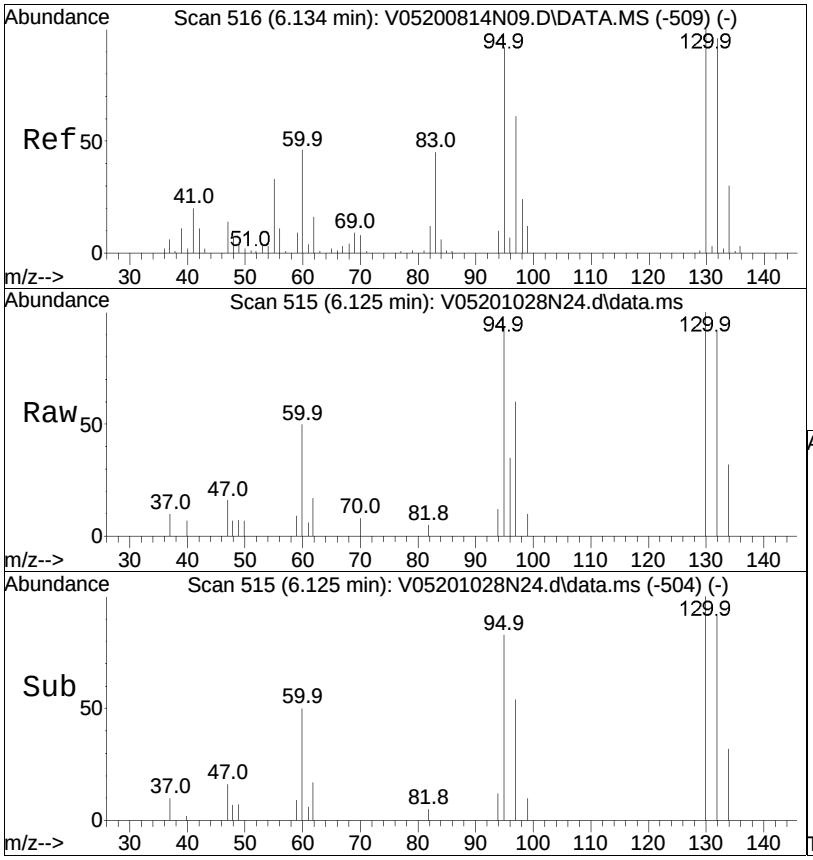


#32
Chloroform
Concen: 6.86 ug/L
RT: 4.980 min Scan# 398
Delta R.T. 0.000 min
Lab File: V05201028N24.d
Acq: 29 Oct 2020 2:53 am

Tgt Ion: 83 Resp: 96358

Ion	Ratio	Lower	Upper
83	100		
85	63.7	42.8	89.0
47	31.4	13.7	28.4#
48	16.0	6.9	14.3#

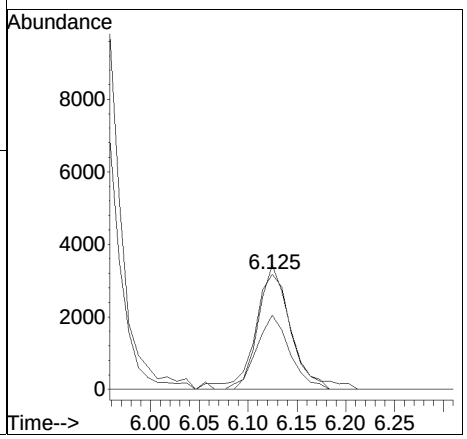


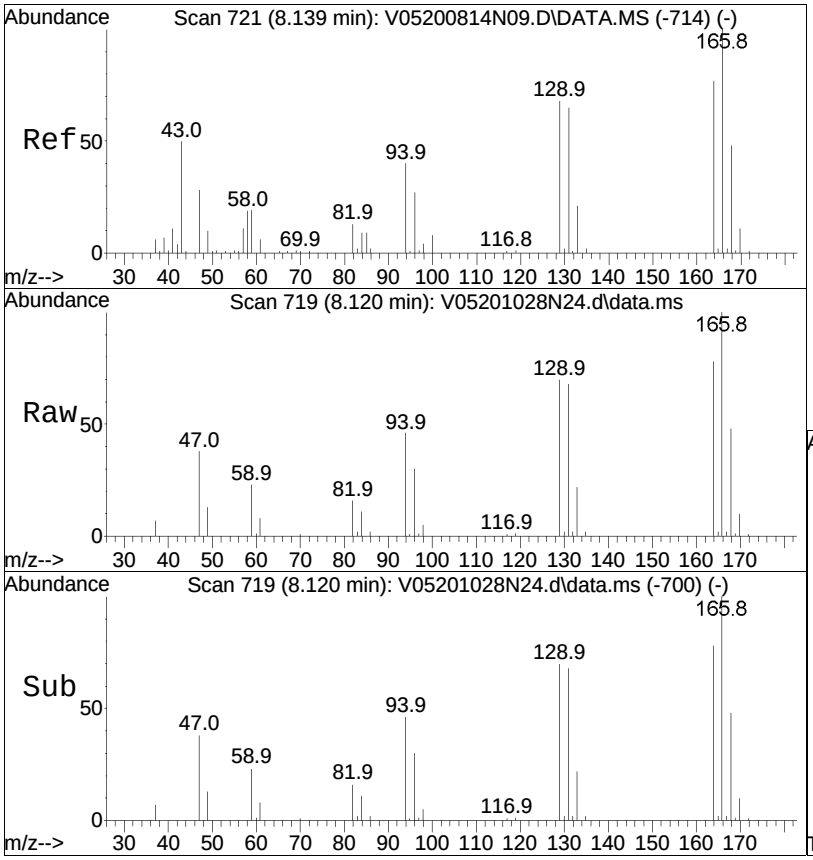


#48
Trichloroethene
Concen: 1.01 ug/L
RT: 6.125 min Scan# 515
Delta R.T. -0.009 min
Lab File: V05201028N24.d
Acq: 29 Oct 2020 2:53 am

Tgt Ion: 95 Resp: 8573

Ion	Ratio	Lower	Upper
95	100		
97	57.0	56.1	84.1
130	89.5	77.7	116.5

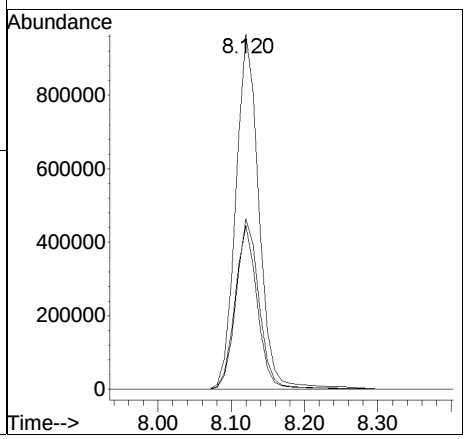




#63
Tetrachloroethene
Concen: 238.54 ug/L
RT: 8.120 min Scan# 719
Delta R.T. -0.010 min
Lab File: V05201028N24.d
Acq: 29 Oct 2020 2:53 am

Tgt Ion:166 Resp: 2135582

Ion	Ratio	Lower	Upper
166	100		
168	47.9	30.2	70.2
94	44.9	32.5	72.5



Manual Integration Report

Data Path	: I:\VOLATILES\VOA105\2020\2	QMethod	: V105_200930N_8260.m
Data File	: V05201028N24.d	Operator	: VOA105:PD
Date Inj'd	: 10/29/2020 2:53 am	Instrument	: VOA 105
Sample	: l2046790-03,31,10,10,,a	Quant Date	: 10/29/2020 12:45 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201029A\
Data File : V08201029A06.d
Acq On : 29 Oct 2020 9:59 am
Operator : VOA108:PD
Sample : l2046790-02,31,10,10,,a
Misc : WG1428085,ICAL17242
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 29 11:42:51 2020
Quant Method : I:\VOLATILES\VOA108\2020\201029A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201029A\V08201029A01.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.389	96	132583	10.000 ug/L	0.00
Standard Area 1 = 152206			Recovery = 87.11%		
59) Chlorobenzene-d5	8.420	117	94152	10.000 ug/L	0.00
Standard Area 1 = 101386			Recovery = 92.86%		
79) 1,4-Dichlorobenzene-d4	9.919	152	45287	10.000 ug/L	0.00
Standard Area 1 = 48766			Recovery = 92.87%		
System Monitoring Compounds					
36) Dibromofluoromethane	4.393	113	32583	9.800 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.00%		
43) 1,2-Dichloroethane-d4	5.038	65	40991	10.580 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.80%		
60) Toluene-d8	7.099	98	129662	10.415 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.15%		
83) 4-Bromofluorobenzene	9.248	95	40774	9.393 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.93%		
Target Compounds					Qvalue
4) Vinyl chloride	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
15) Methylene chloride	0.000		0	N.D.	
17) Acetone	0.000		0	N.D. d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
20) Methyl tert-butyl ether	0.000		0	N.D.	
23) 1,1-Dichloroethane	0.000		0	N.D.	
28) cis-1,2-Dichloroethene	0.000		0	N.D.	
32) Chloroform	4.147	83	89870M1	14.847 ug/L	
34) Carbon tetrachloride	0.000		0	N.D. d	
37) 1,1,1-Trichloroethane	0.000		0	N.D.	
39) 2-Butanone	0.000		0	N.D.	
41) Benzene	0.000		0	N.D.	
44) 1,2-Dichloroethane	0.000		0	N.D.	
48) Trichloroethene	5.494	95	185	N.D.	
57) 1,4-Dioxane	0.000		0	N.D.	
61) Toluene	7.135	92	175	N.D.	
63) Tetrachloroethene	7.513	166	4246	0.824 ug/L	95
73) Chlorobenzene	8.430	112	78	N.D.	
74) Ethylbenzene	8.472	91	341	N.D.	

Data Path : I:\VOLATILES\VOA108\2020\201029A\
Data File : V08201029A06.d
Acq On : 29 Oct 2020 9:59 am
Operator : VOA108:PD
Sample : l2046790-02,31,10,10,,a
Misc : WG1428085,ICAL17242
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 29 11:42:51 2020
Quant Method : I:\VOLATILES\VOA108\2020\201029A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201029A\V08201029A01.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) p/m Xylene	8.582	106	87		N.D.	
77) o Xylene	0.000		0		N.D.	
85) n-Propylbenzene	9.348	91	302		N.D.	
90) 1,3,5-Trimethylbenzene	9.463	105	105		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	
97) 1,2,4-Trimethylbenzene	9.704	105	380		N.D.	
98) sec-Butylbenzene	9.757	105	241		N.D.	
100) 1,3-Dichlorobenzene	9.877	146	148		N.D.	
101) 1,4-Dichlorobenzene	9.925	146	368		N.D.	
103) n-Butylbenzene	10.119	91	209		N.D.	
104) 1,2-Dichlorobenzene	10.181	146	50		N.D.	

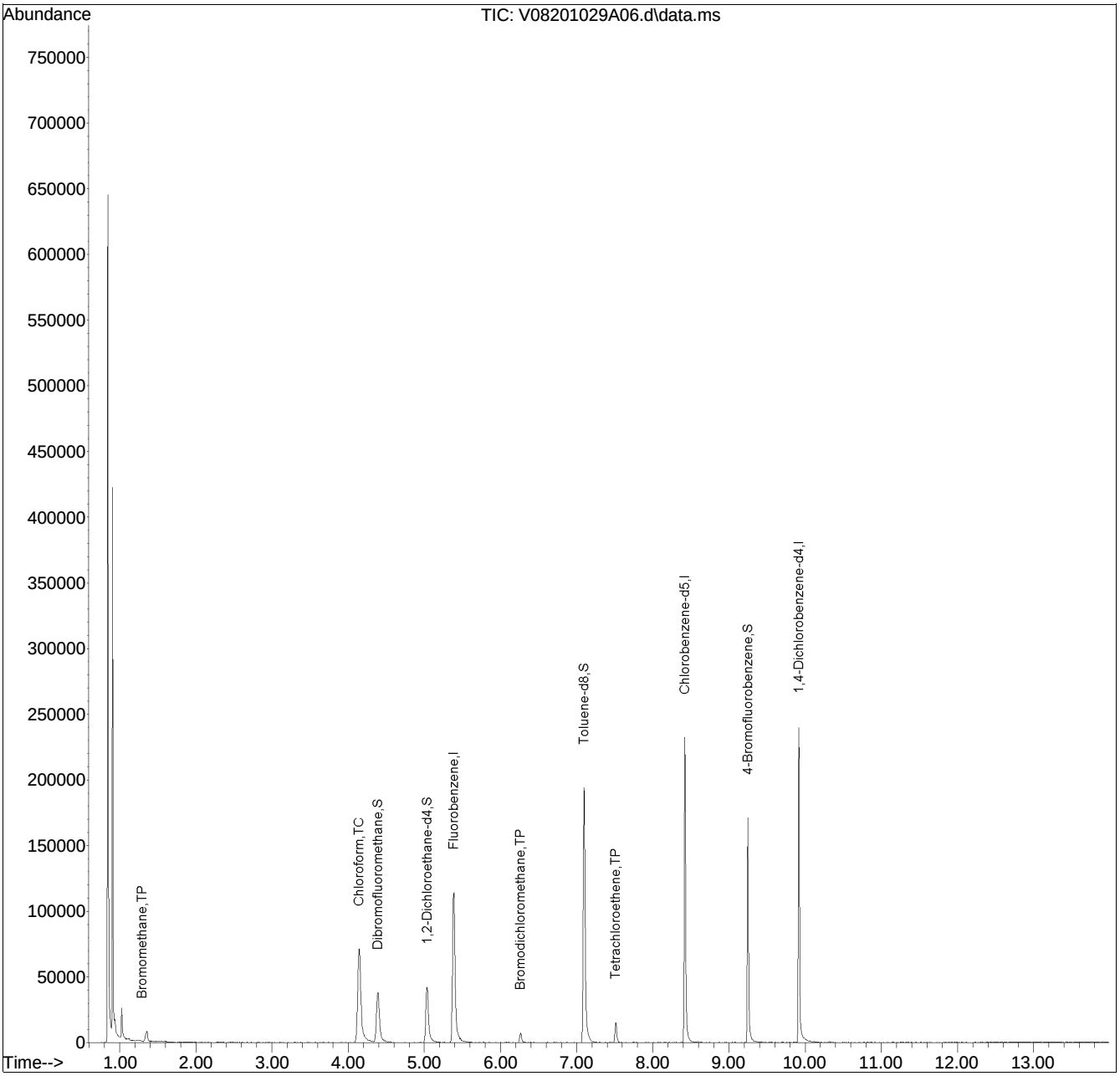
(#) = qualifier out of range (m) = manual integration (+) = signals summed

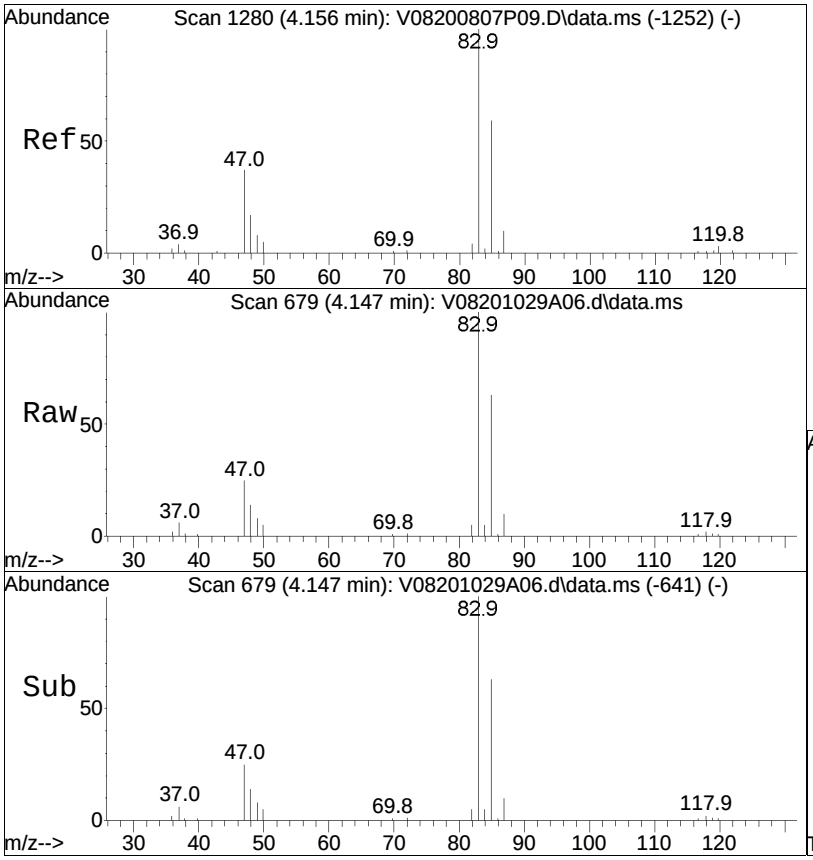
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201029A\
Data File : V08201029A06.d
Acq On : 29 Oct 2020 9:59 am
Operator : VOA108:PD
Sample : l2046790-02,31,10,10,,a
Misc : WG1428085,ICAL17242
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 29 11:42:51 2020
Quant Method : I:\VOLATILES\VOA108\2020\201029A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane•

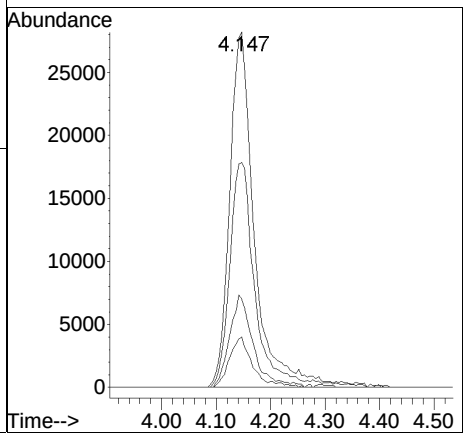


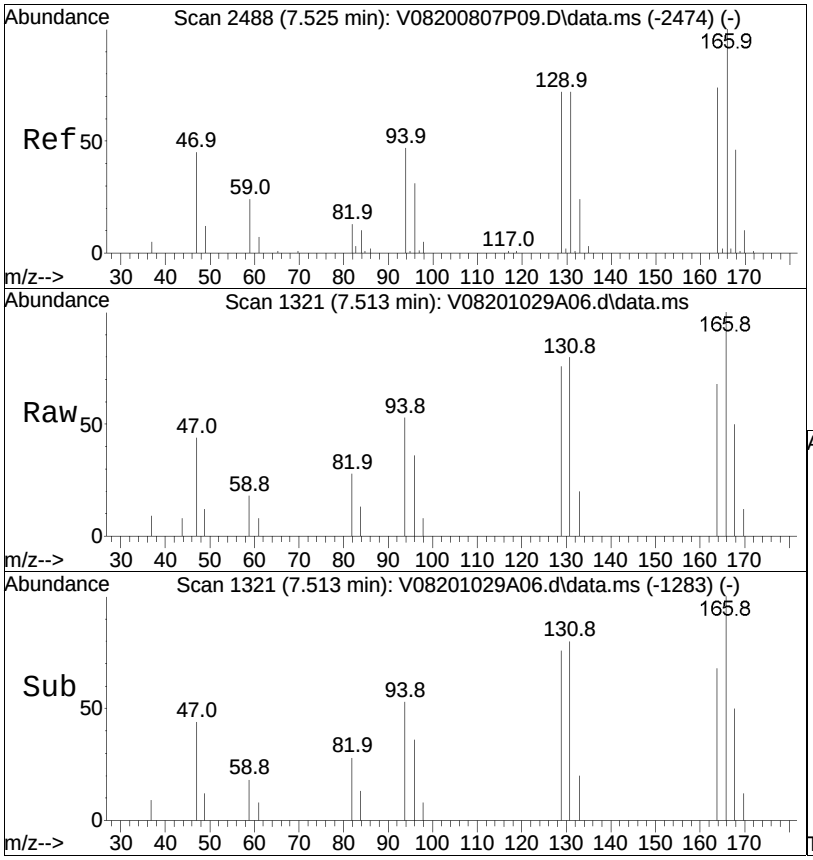


#32
Chloroform
Concen: 14.85 ug/L M1
RT: 4.147 min Scan# 679
Delta R.T. -0.000 min
Lab File: V08201029A06.d
Acq: 29 Oct 2020 9:59 am

Tgt Ion: 83 Resp: 89870

Ion	Ratio	Lower	Upper
83	100		
85	62.7	41.5	86.1
47	24.3	19.0	39.4
48	13.3	9.9	20.5

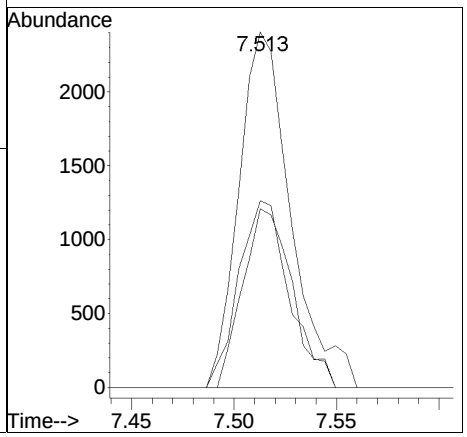




#63
Tetrachloroethene
Concen: 0.82 ug/L
RT: 7.513 min Scan# 1321
Delta R.T. -0.000 min
Lab File: V08201029A06.d
Acq: 29 Oct 2020 9:59 am

Tgt Ion:166 Resp: 4246

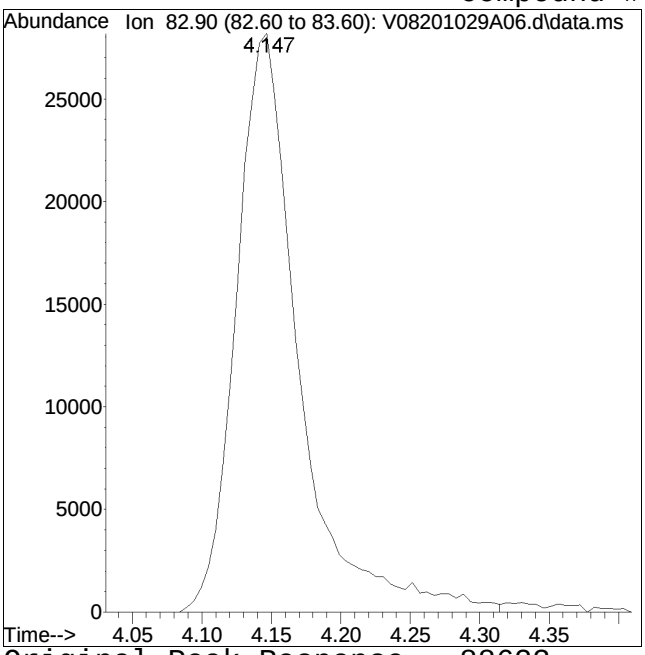
Ion	Ratio	Lower	Upper
166	100		
168	47.8	28.2	68.2
94	51.3	38.4	78.4

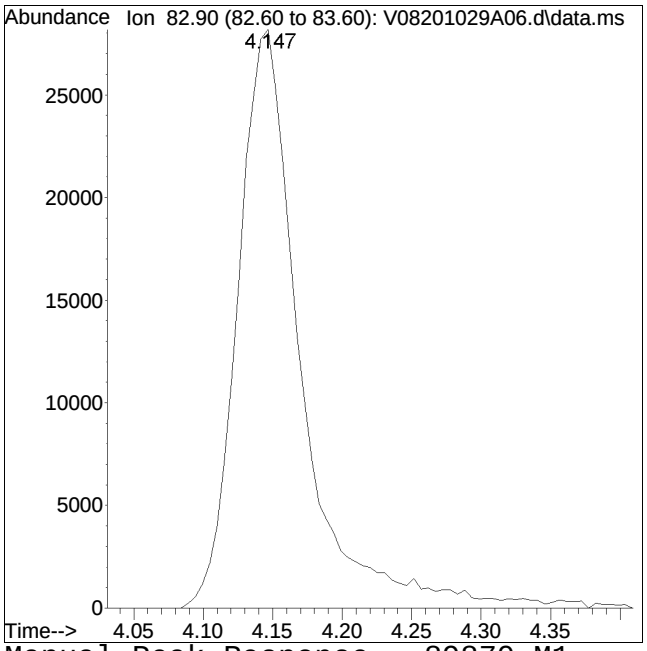


Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201029A06.d Operator : VOA108:PD
Date Inj'd : 10/29/2020 9:59 am Instrument : VOA 108
Sample : l2046790-02,31,10,10,,a Quant Date : 10/29/2020 11:41 am

Compound #32: Chloroform





Original Peak Response = 88623 Manual Peak Response = 89870 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201029A\
Data File : V08201029A07.d
Acq On : 29 Oct 2020 10:21 am
Operator : VOA108:PD
Sample : l2046790-04,31,10,10,,a
Misc : WG1428085,ICAL17242
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 29 11:42:42 2020
Quant Method : I:\VOLATILES\VOA108\2020\201029A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201029A\V08201029A01.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.384	96	136793	10.000 ug/L	0.00
Standard Area 1 = 152206			Recovery = 89.87%		
59) Chlorobenzene-d5	8.420	117	96997	10.000 ug/L	0.00
Standard Area 1 = 101386			Recovery = 95.67%		
79) 1,4-Dichlorobenzene-d4	9.920	152	45872	10.000 ug/L	0.00
Standard Area 1 = 48766			Recovery = 94.07%		
System Monitoring Compounds					
36) Dibromofluoromethane	4.383	113	33936	9.893 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.93%		
43) 1,2-Dichloroethane-d4	5.038	65	41169	10.299 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.99%		
60) Toluene-d8	7.099	98	127726	9.958 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.58%		
83) 4-Bromofluorobenzene	9.248	95	42523	9.671 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.71%		
Target Compounds					Qvalue
4) Vinyl chloride	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
15) Methylene chloride	0.000		0	N.D.	
17) Acetone	0.000		0	N.D. d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
20) Methyl tert-butyl ether	0.000		0	N.D.	
23) 1,1-Dichloroethane	0.000		0	N.D.	
28) cis-1,2-Dichloroethene	0.000		0	N.D.	
32) Chloroform	4.142	83	57704M1	9.239 ug/L	
34) Carbon tetrachloride	0.000		0	N.D. d	
37) 1,1,1-Trichloroethane	0.000		0	N.D.	
39) 2-Butanone	0.000		0	N.D.	
41) Benzene	0.000		0	N.D.	
44) 1,2-Dichloroethane	0.000		0	N.D.	
48) Trichloroethene	5.584	95	964	0.266 ug/L #	75
57) 1,4-Dioxane	0.000		0	N.D.	
61) Toluene	0.000		0	N.D.	
63) Tetrachloroethene	7.513	166	275068	51.790 ug/L	96
73) Chlorobenzene	0.000		0	N.D.	
74) Ethylbenzene	8.472	91	325	N.D.	

Data Path : I:\VOLATILES\VOA108\2020\201029A\
Data File : V08201029A07.d
Acq On : 29 Oct 2020 10:21 am
Operator : VOA108:PD
Sample : l2046790-04,31,10,10,,a
Misc : WG1428085,ICAL17242
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 29 11:42:42 2020
Quant Method : I:\VOLATILES\VOA108\2020\201029A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201029A\V08201029A01.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) p/m Xylene	8.583	106	104		N.D.	
77) o Xylene	0.000		0		N.D.	
85) n-Propylbenzene	9.353	91	188		N.D.	
90) 1,3,5-Trimethylbenzene	9.474	105	63		N.D.	
94) tert-Butylbenzene	0.000		0		N.D.	
97) 1,2,4-Trimethylbenzene	9.705	105	244		N.D.	
98) sec-Butylbenzene	9.752	105	228		N.D.	
100) 1,3-Dichlorobenzene	9.878	146	77		N.D.	
101) 1,4-Dichlorobenzene	9.925	146	285		N.D.	
103) n-Butylbenzene	10.108	91	98		N.D.	
104) 1,2-Dichlorobenzene	10.176	146	52		N.D.	

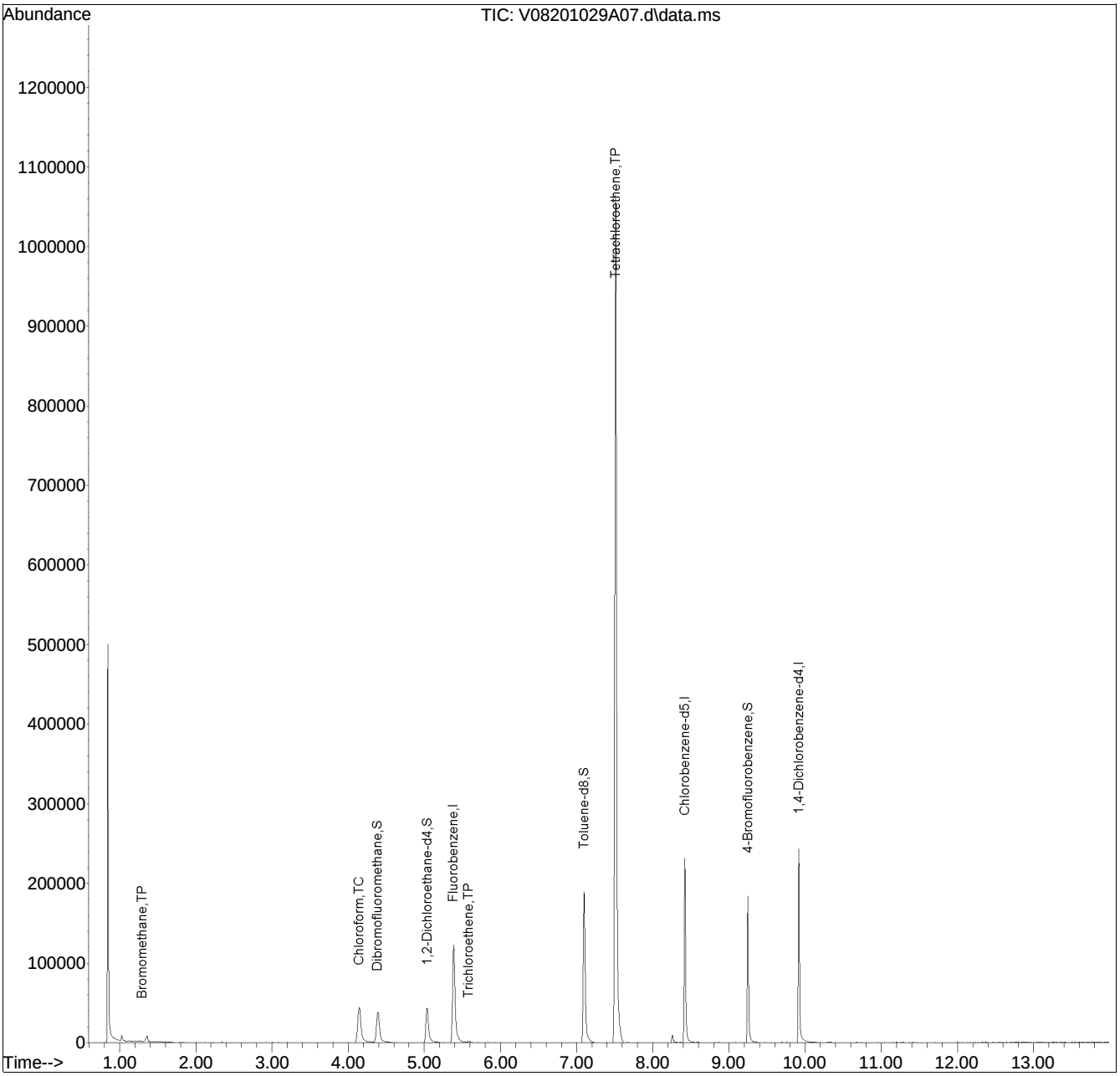
(#) = qualifier out of range (m) = manual integration (+) = signals summed

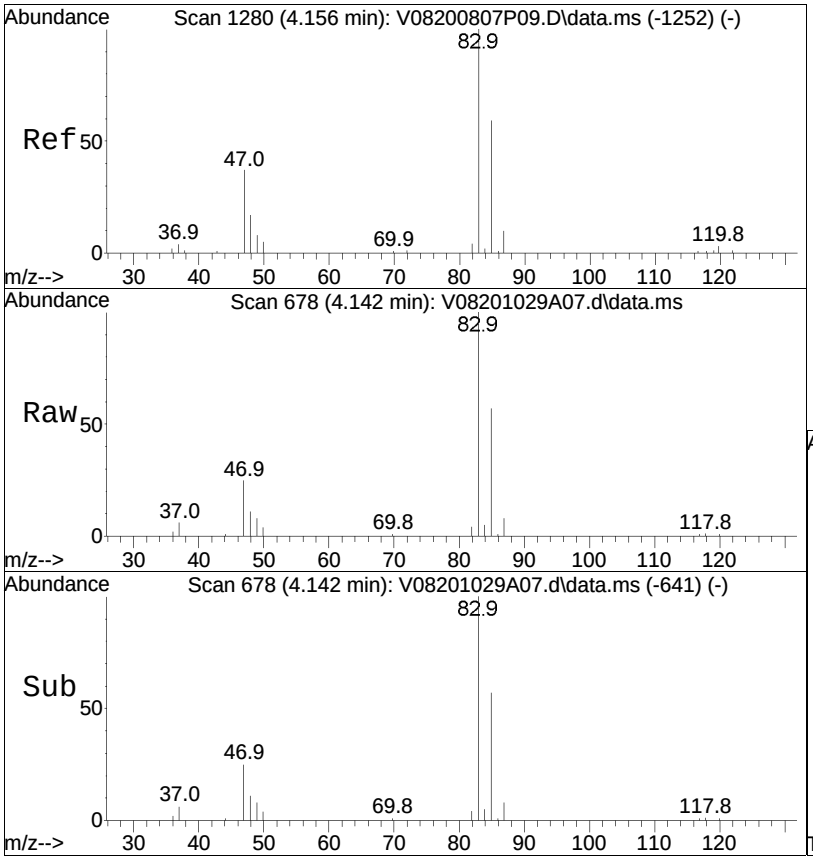
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201029A\
Data File : V08201029A07.d
Acq On : 29 Oct 2020 10:21 am
Operator : VOA108:PD
Sample : l2046790-04,31,10,10,,a
Misc : WG1428085,ICAL17242
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 29 11:42:42 2020
Quant Method : I:\VOLATILES\VOA108\2020\201029A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane•

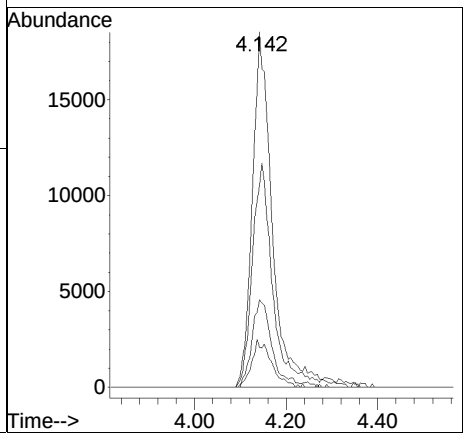


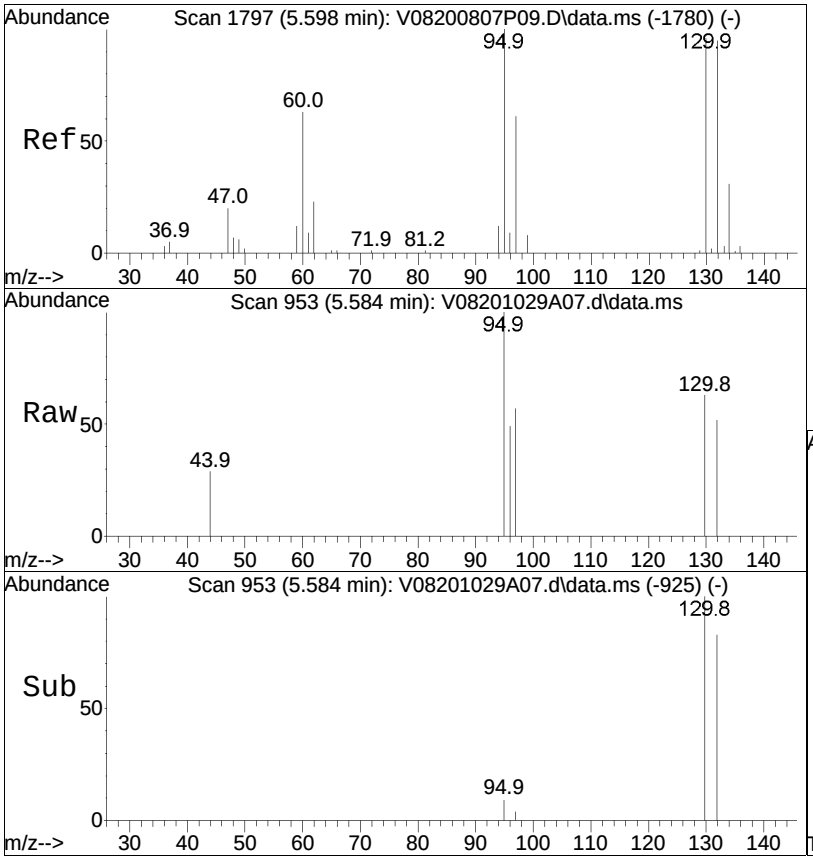


#32
Chloroform
Concen: 9.24 ug/L M1
RT: 4.142 min Scan# 678
Delta R.T. -0.005 min
Lab File: V08201029A07.d
Acq: 29 Oct 2020 10:21 am

Tgt Ion: 83 Resp: 57704

Ion	Ratio	Lower	Upper
83	100		
85	62.8	41.5	86.1
47	23.9	19.0	39.4
48	12.8	9.9	20.5

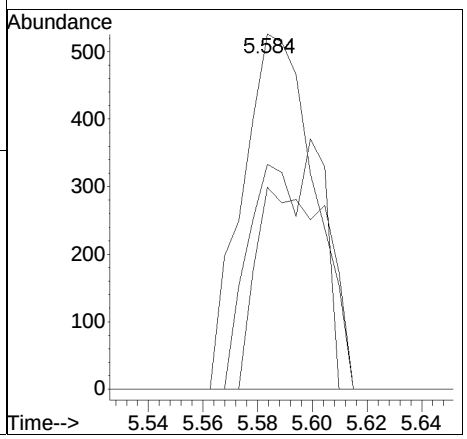


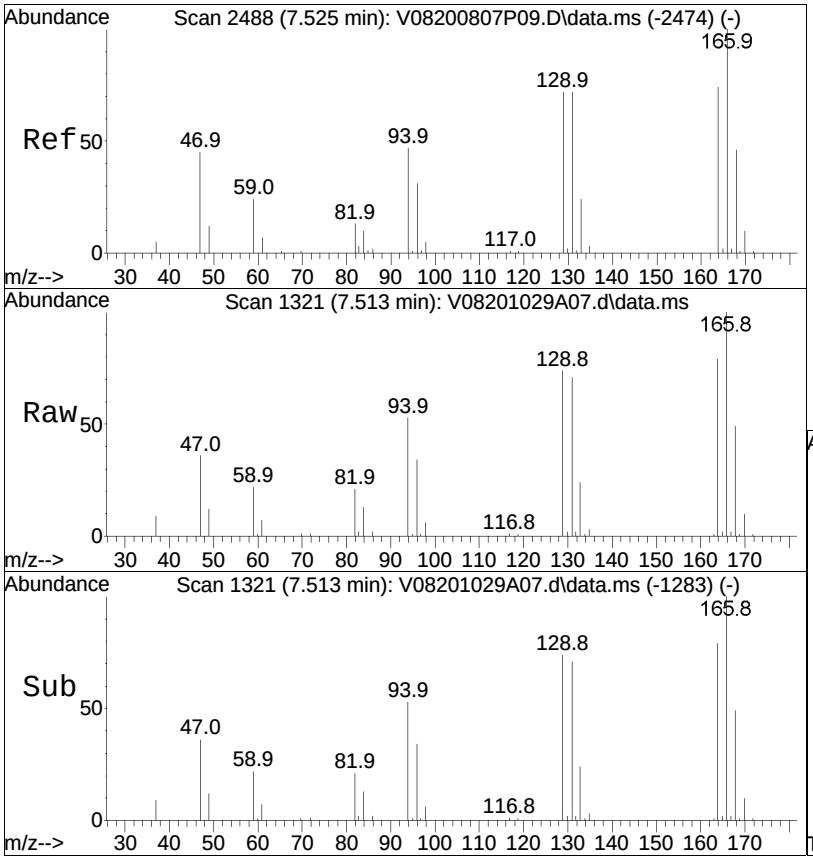


#48
Trichloroethene
Concen: 0.27 ug/L
RT: 5.584 min Scan# 953
Delta R.T. -0.005 min
Lab File: V08201029A07.d
Acq: 29 Oct 2020 10:21 am

Tgt Ion: 95 Resp: 964

Ion	Ratio	Lower	Upper
95	100		
97	56.3	55.5	83.3
130	65.8	76.6	115.0#

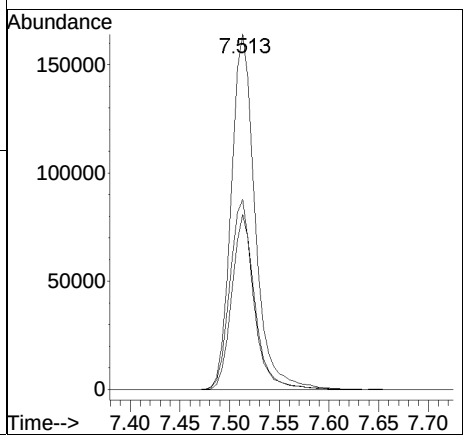




#63
Tetrachloroethene
Concen: 51.79 ug/L
RT: 7.513 min Scan# 1321
Delta R.T. 0.000 min
Lab File: V08201029A07.d
Acq: 29 Oct 2020 10:21 am

Tgt Ion:166 Resp: 275068

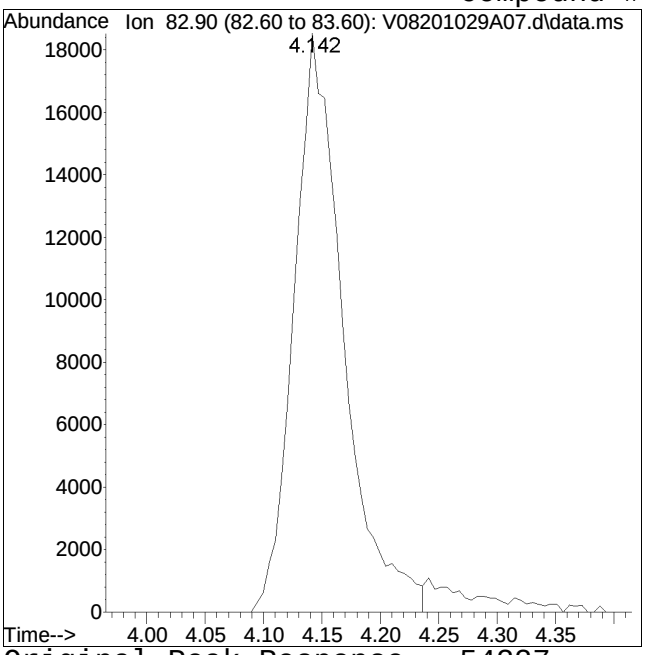
Ion	Ratio	Lower	Upper
166	100		
168	48.0	28.2	68.2
94	52.9	38.4	78.4



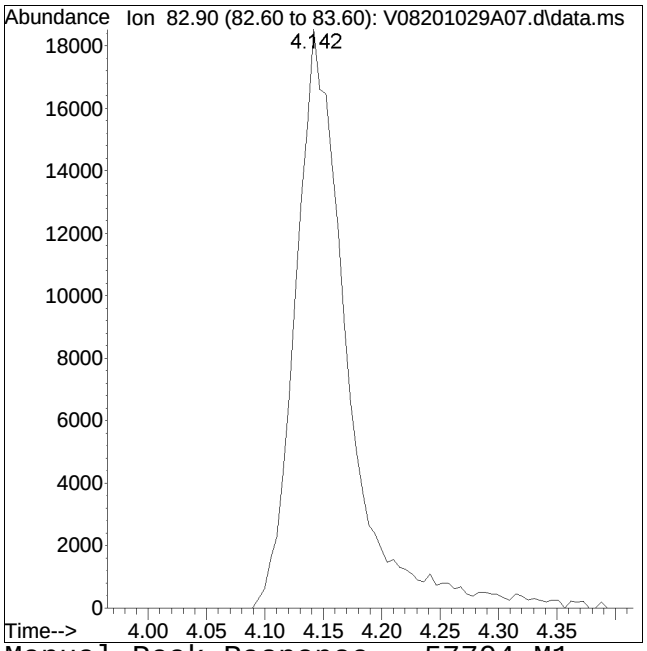
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201029A07.d Operator : VOA108:PD
Date Inj'd : 10/29/2020 10:21 am Instrument : VOA 108
Sample : l2046790-04,31,10,10,,a Quant Date : 10/29/2020 11:42 am

Compound #32: Chloroform



Original Peak Response = 54227



Manual Peak Response = 57704 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\201029N\
Data File : V05201029N24.d
Acq On : 30 Oct 2020 2:12 am
Operator : VOA105:PD
Sample : l2046790-03D,31,2.5,10,,c
Misc : WG1428497,ICAL17185 (Sig #1); ,ICAL17185 (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 30 10:06:21 2020
Quant Method : I:\VOLATILES\VOA105\2020\201029N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\201029N\V05201029N01.d
Sub List : 8260-PCEonly - PCEonly

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.948	96	302873	10.000	ug/L	0.00
Standard Area 1 = 327904			Recovery = 92.37%			
59) Chlorobenzene-d5	9.461	117	233849	10.000	ug/L	-0.01
Standard Area 1 = 254770			Recovery = 91.79%			
79) 1,4-Dichlorobenzene-d4	12.184	152	113050	10.000	ug/L	0.00
Standard Area 1 = 130144			Recovery = 86.87%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.156	113	77652	9.454	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.54%			
43) 1,2-Dichloroethane-d4	5.674	65	94871	9.424	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.24%			
60) Toluene-d8	7.621	98	289879	10.011	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.11%			
83) 4-Bromofluorobenzene	10.969	95	106513	10.523	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.23%			
Target Compounds						Qvalue
63) Tetrachloroethene	8.120	166	422042	52.659	ug/L	93

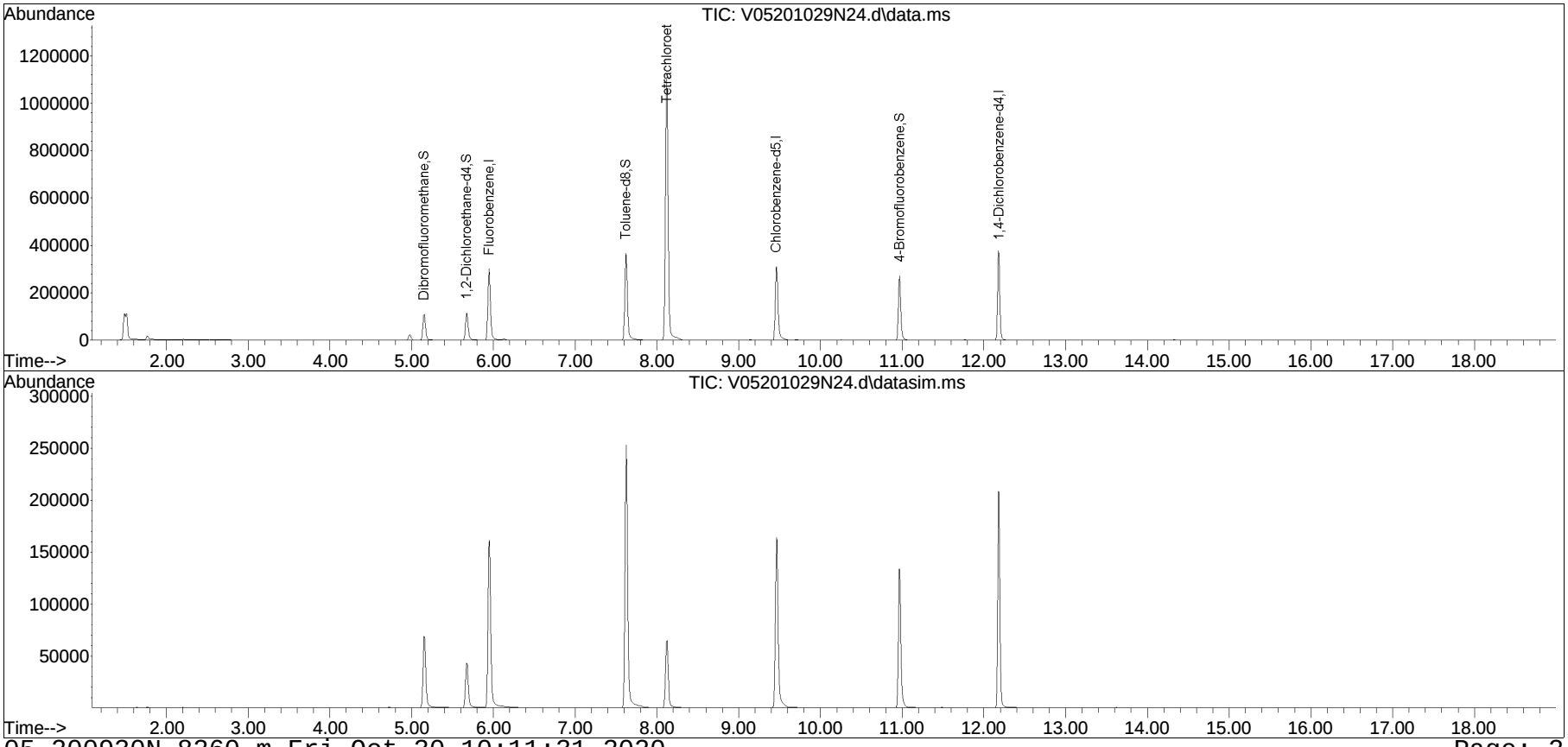
(#) = qualifier out of range (m) = manual integration (+) = signals summed

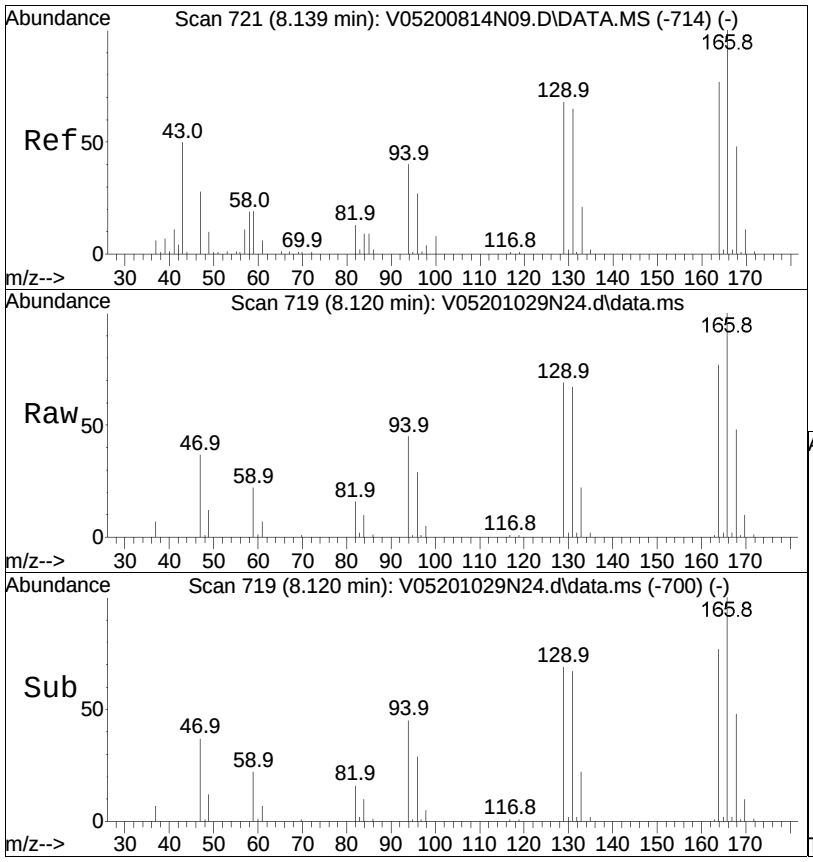
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\201029N\
Data File : V05201029N24.d
Acq On : 30 Oct 2020 2:12 am
Operator : VOA105:PD
Sample : l2046790-03D,31,2.5,10,,c
Misc : WG1428497,ICAL17185 (Sig #1); ,ICAL17185 (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 30 10:06:21 2020
Quant Method : I:\VOLATILES\VOA105\2020\201029N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

Sub List : 8260-PCEonly - PCEonly5\2020\201029N\V05201029N01.d•

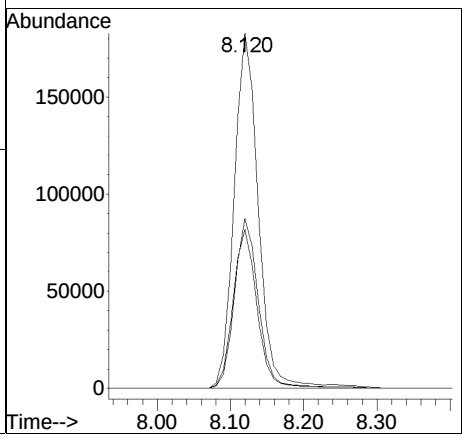




#63
Tetrachloroethene
Concen: 52.66 ug/L
RT: 8.120 min Scan# 719
Delta R.T. -0.010 min
Lab File: V05201029N24.d
Acq: 30 Oct 2020 2:12 am

Tgt Ion:166 Resp: 422042

Ion	Ratio	Lower	Upper
166	100		
168	47.6	30.2	70.2
94	44.7	32.5	72.5



Manual Integration Report

Data Path	: I:\VOLATILES\VOA105\2020\2	QMethod	: V105_200930N_8260.m
Data File	: V05201029N24.d	Operator	: VOA105:PD
Date Inj'd	: 10/30/2020 2:12 am	Instrument	: VOA 105
Sample	: l2046790-03D,31,2.5,10,,c	Quant Date	: 10/30/2020 10:06 am

There are no manual integrations or false positives in this file.

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Volatiles

Client	**: Impact Environmental**	**Lab Number**	**: L2046790**
Project Name	**: 13-12 BEACH CHANNEL DRIVE**	**Project Number**	**: 15209**
Instrument ID	**: VOA105**	**Ical Ref**	**: ICAL17185**
Calibration dates	**: 09/30/20 16:40 09/30/20 20:10**		

Calibration Files

L11 =V05200930N04.d L1 =V05200930N06.d L2 =V05200930N08.d L3 =V05200930N09.d L4 =V05200930N10.d

L6 =V05200930N11.d L8 =V05200930N12.d L10 =V05200930N13.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	TP	Dichlorodifluo		0.115	0.144	0.134	0.173	0.171	0.172	0.162	0.153	14.84
3)	TP	Chloromethane		0.211	0.241	0.217	0.262	0.259	0.264	0.252	0.244	8.94
4)	TC	Vinyl chloride	0.221	0.178	0.235	0.220	0.269	0.272	0.278	0.265	0.242	14.35
5)	TP	Bromomethane		0.101	0.122	0.107	0.145	0.170	0.187		*Q	0.9991
6)	TP	Chloroethane		0.288	0.219	0.183	0.202	0.166	0.144	0.116	*Q	0.9987
7)	TP	Trichlorofluor		0.314	0.385	0.365	0.450	0.440	0.444	0.413	0.401	12.43
8)	TP	Ethyl ether		0.107	0.122	0.108	0.130	0.130	0.136	0.129	0.123	9.23
10)	TC	1,1-Dichloroet		0.194	0.231	0.207	0.256	0.254	0.258	0.246	0.235	10.97
11)	TP	Carbon disulfide		0.377	0.390	0.402	0.507	0.549	0.526	0.540	0.470	16.29
12)	TP	Freon-113		0.178	0.203	0.200	0.251	0.257	0.248	0.242	0.226	13.87
13)	TP	Iodomethane			0.248	0.256	0.336	0.334	0.336	0.311	0.304	13.53
14)	TP	Acrolein			0.019	0.019	0.025	0.026	0.027	0.026	0.024#	14.76
15)	TP	Methylene chlo		0.198	0.221	0.193	0.232	0.232	0.239	0.230	0.221	8.18
17)	TP	Acetone			0.063	0.042	0.049	0.049	0.049	0.047	0.050#	13.64
18)	TP	trans-1,2-Dich		0.156	0.198	0.188	0.223	0.226	0.231	0.223	0.206	13.17
19)	TP	Methyl acetate			0.134	0.104	0.126	0.128	0.131	0.126	0.125	8.51
20)	TP	Methyl tert butyl ether		0.425	0.453	0.428	0.522	0.524	0.546	0.527	0.489	10.61
21)	TP	tert-Butyl alc		0.013	0.013	0.012	0.015	0.016	0.017	0.016	0.015#	11.32
22)	TP	Diisopropyl ether		0.704	0.785	0.720	0.867	0.877	0.910	0.880	0.820	10.17
23)	TP	1,1-Dichloroet		0.368	0.429	0.392	0.465	0.467	0.483	0.464	0.438	9.91
24)	TP	Halothane		0.123	0.157	0.150	0.183	0.185	0.191	0.184	0.168	14.97
25)	TP	Acrylonitrile			0.042	0.045	0.058	0.059	0.060	0.059	0.054	14.71
26)	TP	Ethyl tert-but		0.575	0.661	0.604	0.745	0.759	0.797	0.779	0.703	12.65
27)	TP	Vinyl acetate		0.413	0.475	0.450	0.539	0.558	0.583	0.577	0.514	13.11
28)	TP	cis-1,2-Dichlo		0.197	0.254	0.233	0.272	0.269	0.276	0.271	0.253	11.35
29)	TP	2,2-Dichloropr		0.261	0.308	0.289	0.355	0.356	0.369	0.361	0.328	12.76
30)	TP	Bromochloromet		0.080	0.106	0.100	0.121	0.120	0.123	0.119	0.110	14.26
31)	TP	Cyclohexane		0.310	0.392	0.382	0.476	0.479	0.492	0.474	0.429	16.06
32)	TC	Chloroform		0.349	0.412	0.366	0.435	0.438	0.452	0.443	0.414	9.79
33)	TP	Ethyl acetate		0.157	0.176	0.157	0.192	0.196	0.203	0.197	0.183	10.60
34)	TP	Carbon tetrachloride	0.223	0.254	0.301	0.282	0.357	0.367	0.380	0.371	0.317	18.96
35)	TP	Tetrahydrofuran		0.038	0.049	0.043	0.051	0.050	0.051	0.052	0.048#	10.86
36)	S	Dibromofluoromethane	0.266	0.268	0.270	0.272	0.270	0.268	0.274	0.281	0.271	1.78
37)	TP	1,1,1-Trichlor		0.295	0.366	0.344	0.418	0.418	0.429	0.414	0.383	13.06
39)	TP	2-Butanone			0.080	0.068	0.078	0.079	0.082	0.080	0.078#	6.72

Initial Calibration Summary
Form 6
Volatiles

Client	**: Impact Environmental**	**Lab Number**	**: L2046790**
Project Name	**: 13-12 BEACH CHANNEL DRIVE**	**Project Number**	**: 15209**
Instrument ID	**: VOA105**	**Ical Ref**	**: ICAL17185**
Calibration dates	**: 09/30/20 16:40 09/30/20 20:10**		

Calibration Files
L11 =V05200930N04.d L1 =V05200930N06.d L2 =V05200930N08.d L3 =V05200930N09.d L4 =V05200930N10.d
L6 =V05200930N11.d L8 =V05200930N12.d L10 =V05200930N13.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
40) TP	1,1-Dichloropr		0.246	0.303	0.283	0.337	0.339	0.353	0.339	0.314	12.27
41) TP	Benzene	0.732	0.744	0.862	0.763	0.914	0.920	0.953	0.932	0.853	10.77
42) TP	Tertiary-Amyl Methyl Ether		0.442	0.487	0.464	0.568	0.583	0.615	0.605	0.538	13.30
43) S	1,2-Dichloroethane-d4	0.329	0.328	0.329	0.340	0.321	0.328	0.334	0.351	0.332	2.80
44) TP	1,2-Dichloroet		0.286	0.311	0.281	0.336	0.335	0.347	0.341	0.320	8.50
47) TP	Methyl cyclohe		0.297	0.363	0.346	0.442	0.454	0.465	0.454	0.403	16.56
48) TP	Trichloroethene	0.221	0.225	0.243	0.217	0.262	0.269	0.280	0.279	0.250	10.61
50) TP	Dibromomethane		0.102	0.115	0.114	0.137	0.140	0.149	0.145	0.129	14.02
51) TC	1,2-Dichloropr		0.192	0.223	0.206	0.249	0.256	0.266	0.260	0.236	12.23
53) TP	2-Chloroethyl			0.060	0.086	0.123	0.132	0.144	0.142	*L	0.9972
54) TP	Bromodichlorom		0.221	0.267	0.263	0.326	0.339	0.360	0.351	0.304	17.56
57) TP	1,4-Dioxane		0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002#	9.77
58) TP	cis-1,3-Dichlo		0.246	0.299	0.298	0.380	0.392	0.415	0.408	0.348	19.06
59) I	Chlorobenzene-d5	----------ISTD----------									
60) S	Toluene-d8	1.242	1.240	1.283	1.256	1.253	1.240	1.210	1.184	1.238	2.41
61) TC	Toluene		0.593	0.719	0.653	0.780	0.768	0.785	0.758	0.722	10.12
62) TP	4-Methyl-2-pen			0.067	0.066	0.083	0.087	0.089	0.087	0.080#	13.45
63) TP	Tetrachloroethene		0.272	0.339	0.310	0.376	0.371	0.374	0.358	0.343	11.42
65) TP	trans-1,3-Dich		0.254	0.333	0.346	0.440	0.449	0.463	0.453	*L	0.9987
67) TP	Ethyl methacry			0.237	0.237	0.306	0.314	0.325	0.320	0.290	14.30
68) TP	1,1,2-Trichlor		0.143	0.186	0.172	0.207	0.208	0.213	0.208	0.191	13.47
69) TP	Chlorodibromom		0.172	0.227	0.255	0.324	0.328	0.341	0.330	*Q	0.9987
70) TP	1,3-Dichloropr		0.227	0.261	0.234	0.288	0.279	0.277	0.257	0.260	8.95
71) TP	1,2-Dibromoethane		0.181	0.218	0.205	0.253	0.251	0.255	0.244	0.230	12.62
72) TP	2-Hexanone		0.117	0.132	0.127	0.161	0.165	0.167	0.159	0.147	14.24
73) TP	Chlorobenzene		0.675	0.804	0.712	0.865	0.871	0.893	0.871	0.813	10.68
74) TC	Ethylbenzene		1.156	1.421	1.263	1.542	1.557	1.588	1.546	1.439	11.69
75) TP	1,1,1,2-Tetrac		0.224	0.272	0.258	0.323	0.327	0.337	0.328	0.296	14.88
76) TP	p/m Xylene		0.448	0.540	0.488	0.596	0.614	0.635	0.628	0.564	13.06
77) TP	o Xylene		0.399	0.485	0.441	0.540	0.559	0.581	0.573	0.511	13.90
78) TP	Styrene		0.590	0.767	0.715	0.925	0.960	0.998	0.965	0.846	18.40
79) I	1,4-Dichlorobenzene-d4	----------ISTD----------									
80) TP	Bromoform		0.190	0.256	0.262	0.354	0.379	0.388		*Q	0.9983
82) TP	Isopropylbenzene		2.142	2.616	2.364	2.845	2.906	2.889	2.749	2.644	11.04
83) S	4-Bromofluorobenzene	0.908	0.907	0.916	0.926	0.897	0.898	0.868	0.843	0.895	3.04
84) TP	Bromobenzene		0.555	0.647	0.568	0.681	0.685	0.703	0.669	0.644	9.17

Initial Calibration Summary
Form 6
Volatiles

Client	**: Impact Environmental**	**Lab Number**	**: L2046790**
Project Name	**: 13-12 BEACH CHANNEL DRIVE**	**Project Number**	**: 15209**
Instrument ID	**: VOA105**	**Ical Ref**	**: ICAL17185**
Calibration dates	**: 09/30/20 16:40 09/30/20 20:10**		

Calibration Files
L11 =V05200930N04.d L1 =V05200930N06.d L2 =V05200930N08.d L3 =V05200930N09.d L4 =V05200930N10.d
L6 =V05200930N11.d L8 =V05200930N12.d L10 =V05200930N13.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
85) TP	n-Propylbenzene		2.567	3.093	2.802	3.402	3.434	3.439	3.240	3.139	10.88
86) TP	1,4-Dichlorobu		0.638	0.715	0.637	0.779	0.787	0.794	0.758	0.730	9.32
87) TP	1,1,2,2-Tetrac		0.384	0.442	0.407	0.505	0.510	0.515	0.501	0.466	11.74
88) TP	4-Ethyltoluene		1.880	2.356	2.215	2.693	2.678	2.703	2.591	2.445	12.75
89) TP	2-Chlorotoluene		1.544	1.796	1.574	1.883	1.902	1.912	1.775	1.769	8.64
90) TP	1,3,5-Trimethy		1.797	2.103	1.928	2.363	2.368	2.396	2.332	2.184	11.12
91) TP	1,2,3-Trichlor		0.330	0.379	0.340	0.420	0.422	0.429	0.416	0.391	10.64
92) TP	trans-1,4-Dich			0.109	0.110	0.148	0.155	0.159	0.150	0.138	16.65
93) TP	4-Chlorotoluene		1.583	1.832	1.624	1.928	1.960	1.982	1.915	1.832	8.93
94) TP	tert-Butylbenzene		1.606	1.920	1.727	2.081	2.090	2.098	2.026	1.935	10.17
97) TP	1,2,4-Trimethy		1.632	2.025	1.864	2.246	2.275	2.321	2.241	2.086	12.38
98) TP	sec-Butylbenzene		2.150	2.578	2.335	2.820	2.861	2.848	2.703	2.613	10.60
99) TP	p-Isopropyltol		1.953	2.295	2.122	2.622	2.661	2.657	2.534	2.406	11.87
100) TP	1,3-Dichlorobe		1.043	1.159	1.041	1.237	1.260	1.278	1.238	1.179	8.57
101) TP	1,4-Dichlorobe		1.066	1.183	1.045	1.256	1.255	1.270	1.237	1.187	7.96
102) TP	p-Diethylbenzene		0.978	1.242	1.178	1.443	1.489	1.488	1.473	1.327	15.01
103) TP	n-Butylbenzene		1.647	2.009	1.814	2.264	2.273	2.291	2.211	2.073	12.39
104) TP	1,2-Dichlorobe		0.898	1.038	0.919	1.115	1.120	1.139	1.100	1.047	9.54
105) TP	1,2,4,5-Tetram		1.431	1.681	1.635	2.043	2.104	2.145	2.125	1.881	15.48
106) TP	1,2-Dibromo-3-		0.040	0.052	0.054	0.072	0.076	0.079		*Q	0.9986
107) TP	1,3,5-Trichlor		0.647	0.725	0.664	0.795	0.812	0.818	0.801	0.752	9.69
108) TP	Hexachlorobuta		0.268	0.297	0.256	0.312	0.321	0.315	0.310	0.297	8.57
109) TP	1,2,4-Trichlor		0.580	0.614	0.561	0.683	0.692	0.699	0.687	0.645	9.09
110) TP	Naphthalene		1.172	1.163	1.059	1.313	1.322	1.347	1.290	1.238	8.69
111) TP	1,2,3-Trichlor		0.500	0.521	0.448	0.546	0.554	0.560	0.539	0.524	7.53

Initial Calibration Summary
Form 6
Volatiles

Client	**: Impact Environmental**	**Lab Number**	**: L2046790**
Project Name	**: 13-12 BEACH CHANNEL DRIVE**	**Project Number**	**: 15209**
Instrument ID	**: VOA108**	**Ical Ref**	**: ICAL17242**
Calibration dates	**: 10/13/20 15:01 10/13/20 18:19**		

Calibration Files

L11 =V08201013A04.d L1 =V08201013A06.d L2 =V08201013A08.d L3 =V08201013A09.d L4 =V08201013A10.d

L6 =V08201013A11.d L8 =V08201013A12.d L10 =V08201013A13.d

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	TP	Dichlorodifluo		0.196	0.248	0.291	0.296	0.302	0.303	0.306	0.277	14.76
3)	TP	Chloromethane		0.243	0.269	0.260	0.253	0.261	0.254	0.257	0.257	3.11
4)	TC	Vinyl chloride	0.240	0.187	0.251	0.300	0.291	0.300	0.297	0.300	0.271	15.34
5)	TP	Bromomethane		0.158	0.176	0.157	0.168	0.176	0.191	0.201	0.175	9.29
6)	TP	Chloroethane		0.184	0.219	0.229	0.219	0.209	0.211	0.213	0.212	6.61
7)	TP	Trichlorofluor		0.265	0.396	0.453	0.458	0.477	0.481	0.452	0.426	17.93
8)	TP	Ethyl ether		0.117	0.125	0.136	0.127	0.136	0.140	0.140	0.131	6.51
10)	TC	1,1-Dichloroet		0.187	0.218	0.221	0.224	0.232	0.231	0.235	0.221	7.38
11)	TP	Carbon disulfide		0.389	0.508	0.553	0.565	0.586	0.585	0.594	0.540	13.45
12)	TP	Freon-113		0.129	0.171	0.222	0.222	0.228	0.226	0.232	0.204	19.12
13)	TP	Iodomethane		0.190	0.249	0.299	0.315	0.347	0.346	0.346	0.299	19.91
14)	TP	Acrolein		0.038	0.031	0.029	0.027	0.028	0.030	0.031	0.031#	11.61
15)	TP	Methylene chlo		0.284	0.262	0.270	0.251	0.259	0.261	0.261	0.264	3.97
17)	TP	Acetone			0.060	0.056	0.052	0.053	0.054	0.055	0.055#	5.35
18)	TP	trans-1,2-Dich		0.192	0.234	0.242	0.233	0.241	0.238	0.240	0.231	7.63
19)	TP	Methyl acetate		0.135	0.113	0.119	0.119	0.129	0.136	0.138	0.127	7.89
20)	TP	Methyl tert butyl ether		0.545	0.667	0.682	0.659	0.671	0.682	0.683	0.656	7.54
21)	TP	tert-Butyl alc		0.026	0.024	0.025	0.023	0.024	0.024	0.024	0.024#	3.67
22)	TP	Diisopropyl ether		0.630	0.735	0.752	0.745	0.757	0.764	0.768	0.736	6.51
23)	TP	1,1-Dichloroet		0.337	0.451	0.462	0.445	0.459	0.461	0.464	0.440	10.40
24)	TP	Halothane		0.143	0.181	0.193	0.185	0.192	0.189	0.190	0.182	9.73
25)	TP	Acrylonitrile		0.087	0.069	0.073	0.068	0.070	0.070	0.071	0.072	8.94
26)	TP	Ethyl tert-but		0.659	0.714	0.756	0.744	0.765	0.771	0.780	0.741	5.68
27)	TP	Vinyl acetate			0.150	0.318	0.372	0.443	0.426	0.495	*L	0.9934
28)	TP	cis-1,2-Dichlo		0.248	0.284	0.307	0.289	0.295	0.296	0.298	0.288	6.62
29)	TP	2,2-Dichloropr		0.365	0.367	0.388	0.377	0.380	0.374	0.374	0.375	2.14
30)	TP	Bromochloromet		0.107	0.124	0.135	0.128	0.128	0.130	0.128	0.126	7.08
31)	TP	Cyclohexane		0.318	0.382	0.397	0.388	0.399	0.392	0.398	0.382	7.55
32)	TC	Chloroform		0.416	0.465	0.471	0.452	0.465	0.462	0.465	0.457	4.11
33)	TP	Ethyl acetate		0.155	0.206	0.216	0.212	0.215	0.197	0.197	0.200	10.61
34)	TP	Carbon tetrachloride	0.267	0.214	0.304	0.334	0.320	0.340	0.331	0.335	0.305	14.38
35)	TP	Tetrahydrofuran			0.087	0.069	0.068	0.051	0.056	0.056	*L	0.9954
36)	S	Dibromofluoromethane	0.246	0.250	0.247	0.253	0.248	0.259	0.253	0.251	0.251	1.65
37)	TP	1,1,1-Trichlor		0.281	0.377	0.412	0.412	0.423	0.418	0.418	0.392	13.07
39)	TP	2-Butanone			0.084	0.093	0.089	0.091	0.099	0.096	0.092#	5.68

Initial Calibration Summary
Form 6
Volatiles

Client	**: Impact Environmental**	**Lab Number**	**: L2046790**
Project Name	**: 13-12 BEACH CHANNEL DRIVE**	**Project Number**	**: 15209**
Instrument ID	**: VOA108**	**Ical Ref**	**: ICAL17242**
Calibration dates	**: 10/13/20 15:01 10/13/20 18:19**		

Calibration Files

L11 =V08201013A04.d L1 =V08201013A06.d L2 =V08201013A08.d L3 =V08201013A09.d L4 =V08201013A10.d

L6 =V08201013A11.d L8 =V08201013A12.d L10 =V08201013A13.d

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
40) TP	1,1-Dichloropr		0.227	0.303	0.333	0.340	0.347	0.345	0.347	0.320	13.77
41) TP	Benzene	0.918	0.866	0.982	1.009	0.995	1.018	1.009	1.014	0.976	5.64
42) TP	Tertiary-Amyl Methyl Ether		0.606	0.699	0.735	0.715	0.739	0.743	0.745	0.712	6.94
43) S	1,2-Dichloroethane-d4	0.305	0.308	0.310	0.280	0.281	0.287	0.281	0.285	0.292	4.53
44) TP	1,2-Dichloroet		0.275	0.350	0.342	0.331	0.348	0.350	0.351	0.335	8.24
47) TP	Methyl cyclohe		0.269	0.370	0.413	0.417	0.432	0.427	0.431	0.394	14.97
48) TP	Trichloroethene	0.252	0.216	0.276	0.272	0.271	0.276	0.278	0.277	0.265	8.04
50) TP	Dibromomethane		0.131	0.161	0.168	0.165	0.170	0.172	0.173	0.163	9.02
51) TC	1,2-Dichloropr		0.197	0.265	0.262	0.255	0.264	0.264	0.265	0.253	9.84
53) TP	2-Chloroethyl		0.106	0.132	0.150	0.137	0.148	0.166	0.169	0.144	14.99
54) TP	Bromodichlorom		0.298	0.356	0.371	0.370	0.382	0.383	0.385	0.363	8.44
57) TP	1,4-Dioxane		0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002#	4.94
58) TP	cis-1,3-Dichlo		0.360	0.425	0.435	0.437	0.456	0.458	0.464	0.433	8.22
59) I	Chlorobenzene-d5	----------ISTD----------									
60) S	Toluene-d8	1.324	1.344	1.352	1.322	1.315	1.308	1.305	1.309	1.322	1.31
61) TC	Toluene		0.746	0.895	0.882	0.871	0.888	0.884	0.896	0.866	6.18
62) TP	4-Methyl-2-pen		0.102	0.119	0.121	0.118	0.119	0.120	0.118	0.117	5.54
63) TP	Tetrachloroethene		0.398	0.548	0.589	0.575	0.554	0.631	0.538	0.548	13.34
65) TP	trans-1,3-Dich		0.446	0.541	0.545	0.550	0.569	0.573	0.581	0.544	8.42
67) TP	Ethyl methacry		0.419	0.441	0.425	0.429	0.441	0.441	0.442	0.434	2.19
68) TP	1,1,2-Trichlor		0.236	0.281	0.265	0.263	0.267	0.267	0.266	0.264	5.20
69) TP	Chlorodibromom		0.309	0.358	0.361	0.364	0.371	0.374	0.368	0.358	6.17
70) TP	1,3-Dichloropr		0.499	0.538	0.540	0.528	0.535	0.536	0.533	0.530	2.63
71) TP	1,2-Dibromoethane		0.265	0.320	0.315	0.312	0.319	0.318	0.315	0.309	6.36
72) TP	2-Hexanone		0.180	0.221	0.207	0.212	0.213	0.217	0.211	0.209	6.44
73) TP	Chlorobenzene		0.810	0.974	0.947	0.935	0.949	0.939	0.942	0.928	5.78
74) TC	Ethylbenzene		1.401	1.659	1.689	1.672	1.691	1.660	1.657	1.633	6.32
75) TP	1,1,1,2-Tetrac		0.294	0.360	0.365	0.362	0.369	0.368	0.365	0.355	7.56
76) TP	p/m Xylene		0.509	0.645	0.649	0.642	0.648	0.638	0.644	0.625	8.19
77) TP	o Xylene		0.479	0.613	0.605	0.597	0.602	0.592	0.595	0.583	7.98
78) TP	Styrene		0.760	0.984	1.018	1.031	1.053	1.040	1.023	0.987	10.39
79) I	1,4-Dichlorobenzene-d4	----------ISTD----------									
80) TP	Bromoform		0.410	0.480	0.455	0.484	0.533	0.534	0.548	0.492	10.12
82) TP	Isopropylbenzene		2.472	3.199	3.112	3.138	3.406	3.215	3.152	3.099	9.46
83) S	4-Bromofluorobenzene	0.964	0.975	0.946	0.923	0.931	0.997	0.970	0.962	0.958	2.52
84) TP	Bromobenzene		0.667	0.820	0.773	0.789	0.852	0.823	0.825	0.793	7.71

Initial Calibration Summary
Form 6
Volatiles

Client	**: Impact Environmental**	**Lab Number**	**: L2046790**
Project Name	**: 13-12 BEACH CHANNEL DRIVE**	**Project Number**	**: 15209**
Instrument ID	**: VOA108**	**Ical Ref**	**: ICAL17242**
Calibration dates	**: 10/13/20 15:01 10/13/20 18:19**		

Calibration Files
L11 =V08201013A04.d L1 =V08201013A06.d L2 =V08201013A08.d L3 =V08201013A09.d L4 =V08201013A10.d
L6 =V08201013A11.d L8 =V08201013A12.d L10 =V08201013A13.d

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
85) TP	n-Propylbenzene		2.968	3.743	3.600	3.721	4.034	3.784	3.742	3.656	9.03
86) TP	1,4-Dichlorobu		0.935	0.934	0.858	0.887	0.959	0.938	0.931	0.920	3.79
87) TP	1,1,2,2-Tetrac		0.675	0.804	0.700	0.716	0.770	0.740	0.747	0.736	5.90
88) TP	4-Ethyltoluene		2.292	3.002	2.862	2.962	3.175	2.995	2.964	2.893	9.71
89) TP	2-Chlorotoluene		2.137	2.594	2.443	2.502	2.696	2.554	2.558	2.497	7.10
90) TP	1,3,5-Trimethy		2.141	2.717	2.548	2.645	2.789	2.638	2.628	2.587	8.14
91) TP	1,2,3-Trichlor		0.629	0.608	0.556	0.586	0.625	0.622	0.627	0.608	4.52
92) TP	trans-1,4-Dich		0.167	0.205	0.191	0.198	0.219	0.206	0.195	0.197	8.24
93) TP	4-Chlorotoluene		1.963	2.292	2.229	2.278	2.419	2.279	2.261	2.246	6.16
94) TP	tert-Butylbenzene		1.954	2.493	2.253	2.357	2.510	2.246	2.355	2.310	8.13
95) TP	Pentachloroethane		0.248	0.260	0.183	0.218	0.272			0.236	15.28
97) TP	1,2,4-Trimethy		2.139	2.708	2.527	2.607	2.734	2.571	2.560	2.549	7.72
98) TP	sec-Butylbenzene		2.393	3.251	3.016	3.152	3.242	3.041	2.950	3.007	9.77
99) TP	p-Isopropyltol		2.090	2.769	2.685	2.780	2.878	2.704	2.684	2.656	9.75
100) TP	1,3-Dichlorobe		1.220	1.510	1.434	1.471	1.542	1.483	1.490	1.450	7.36
101) TP	1,4-Dichlorobe		1.348	1.562	1.481	1.512	1.573	1.503	1.524	1.500	4.98
102) TP	p-Diethylbenzene		1.247	1.648	1.512	1.577	1.662	1.564	1.583	1.542	9.05
103) TP	n-Butylbenzene		2.291	2.694	2.543	2.632	2.758	2.570	2.557	2.578	5.77
104) TP	1,2-Dichlorobe		1.248	1.508	1.387	1.397	1.456	1.407	1.427	1.404	5.71
105) TP	1,2,4,5-Tetram		2.086	2.551	2.437	2.549	2.727	2.626	2.661	2.519	8.43
106) TP	1,2-Dibromo-3-		0.079	0.134	0.118	0.124	0.134	0.136	0.141	0.124	17.05
107) TP	1,3,5-Trichlor		0.832	1.115	1.016	1.048	1.128	1.095	1.125	1.051	10.04
108) TP	Hexachlorobuta		0.401	0.478	0.453	0.468	0.494	0.464	0.497	0.465	6.97
109) TP	1,2,4-Trichlor		0.861	1.052	0.973	0.996	1.098	1.069	1.107	1.022	8.48
110) TP	Naphthalene		2.062	2.328	2.127	2.256	2.473	2.459	2.446	2.307	7.19
111) TP	1,2,3-Trichlor		0.798	0.975	0.896	0.936	1.038	1.005	1.028	0.954	8.94

Response Factor Report VOA 105

Method Path : I:\VOLATILES\VOA105\2020\200930N\
Method File : V105_200930N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Thu Oct 01 13:02:53 2020
Response Via : Initial Calibration

Calibration Files
L11 =V05200930N04.d L1 =V05200930N06.d L2 =V05200930N08.d L3 =V05200930N09.d L4 =V05200930N10.d
L6 =V05200930N11.d L8 =V05200930N12.d L10 =V05200930N13.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	ISTD									
2)	TP	Dichlorodifluo...		0.115	0.144	0.134	0.173	0.171	0.172	0.162	0.153	14.84
3)	TP	Chloromethane		0.211	0.241	0.217	0.262	0.259	0.264	0.252	0.244	8.94
4)	TC	Vinyl chloride	0.221	0.178	0.235	0.220	0.269	0.272	0.278	0.265	0.242	14.35
5)	TP	Bromomethane		0.101	0.122	0.107	0.145	0.170	0.187		*Q	0.9991
6)	TP	Chloroethane		0.288	0.219	0.183	0.202	0.166	0.144	0.116	*Q	0.9987
7)	TP	Trichlorofluor...		0.314	0.385	0.365	0.450	0.440	0.444	0.413	0.401	12.43
8)	TP	Ethyl ether		0.107	0.122	0.108	0.130	0.130	0.136	0.129	0.123	9.23
10)	TC	1,1-Dichloroet...		0.194	0.231	0.207	0.256	0.254	0.258	0.246	0.235	10.97
11)	TP	Carbon disulfide		0.377	0.390	0.402	0.507	0.549	0.526	0.540	0.470	16.29
12)	TP	Freon-113		0.178	0.203	0.200	0.251	0.257	0.248	0.242	0.226	13.87
13)	TP	Iodomethane			0.248	0.256	0.336	0.334	0.336	0.311	0.304	13.53
14)	TP	Acrolein			0.019	0.019	0.025	0.026	0.027	0.026	0.024#	14.76
15)	TP	Methylene chlo...		0.198	0.221	0.193	0.232	0.232	0.239	0.230	0.221	8.18
17)	TP	Acetone			0.063	0.042	0.049	0.049	0.049	0.047	0.050#	13.64
18)	TP	trans-1,2-Dich...		0.156	0.198	0.188	0.223	0.226	0.231	0.223	0.206	13.17
19)	TP	Methyl acetate			0.134	0.104	0.126	0.128	0.131	0.126	0.125	8.51
20)	TP	Methyl tert-bu...		0.425	0.453	0.428	0.522	0.524	0.546	0.527	0.489	10.61
21)	TP	tert-Butyl alc...		0.013	0.013	0.012	0.015	0.016	0.017	0.016	0.015#	11.32
22)	TP	Diisopropyl ether		0.704	0.785	0.720	0.867	0.877	0.910	0.880	0.820	10.17
23)	TP	1,1-Dichloroet...		0.368	0.429	0.392	0.465	0.467	0.483	0.464	0.438	9.91
24)	TP	Halothane		0.123	0.157	0.150	0.183	0.185	0.191	0.184	0.168	14.97
25)	TP	Acrylonitrile			0.042	0.045	0.058	0.059	0.060	0.059	0.054	14.71
26)	TP	Ethyl tert-but...		0.575	0.661	0.604	0.745	0.759	0.797	0.779	0.703	12.65
27)	TP	Vinyl acetate		0.413	0.475	0.450	0.539	0.558	0.583	0.577	0.514	13.11
28)	TP	cis-1,2-Dichlo...		0.197	0.254	0.233	0.272	0.269	0.276	0.271	0.253	11.35
29)	TP	2,2-Dichloropr...		0.261	0.308	0.289	0.355	0.356	0.369	0.361	0.328	12.76
30)	TP	Bromochloromet...		0.080	0.106	0.100	0.121	0.120	0.123	0.119	0.110	14.26
31)	TP	Cyclohexane		0.310	0.392	0.382	0.476	0.479	0.492	0.474	0.429	16.06
32)	TC	Chloroform		0.349	0.412	0.366	0.435	0.438	0.452	0.443	0.414	9.79
33)	TP	Ethyl acetate		0.157	0.176	0.157	0.192	0.196	0.203	0.197	0.183	10.60

Response Factor Report VOA 105

Method Path : I:\VOLATILES\VOA105\2020\200930N\
Method File : V105_200930N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Thu Oct 01 13:02:53 2020
Response Via : Initial Calibration

Calibration Files
L11 =V05200930N04.d L1 =V05200930N06.d L2 =V05200930N08.d L3 =V05200930N09.d L4 =V05200930N10.d
L6 =V05200930N11.d L8 =V05200930N12.d L10 =V05200930N13.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
34)	TP	Carbon tetrach...	0.223	0.254	0.301	0.282	0.357	0.367	0.380	0.371	0.317	18.96
35)	TP	Tetrahydrofuran		0.038	0.049	0.043	0.051	0.050	0.051	0.052	0.048#	10.86
36)	S	Dibromofluorom...	0.266	0.268	0.270	0.272	0.270	0.268	0.274	0.281	0.271	1.78
37)	TP	1,1,1-Trichlor...		0.295	0.366	0.344	0.418	0.418	0.429	0.414	0.383	13.06
39)	TP	2-Butanone			0.080	0.068	0.078	0.079	0.082	0.080	0.078#	6.72
40)	TP	1,1-Dichloropr...		0.246	0.303	0.283	0.337	0.339	0.353	0.339	0.314	12.27
41)	TP	Benzene	0.732	0.744	0.862	0.763	0.914	0.920	0.953	0.932	0.853	10.77
42)	TP	tert-Amyl meth...		0.442	0.487	0.464	0.568	0.583	0.615	0.605	0.538	13.30
43)	S	1,2-Dichloroet...	0.329	0.328	0.329	0.340	0.321	0.328	0.334	0.351	0.332	2.80
44)	TP	1,2-Dichloroet...		0.286	0.311	0.281	0.336	0.335	0.347	0.341	0.320	8.50
47)	TP	Methyl cyclohe...		0.297	0.363	0.346	0.442	0.454	0.465	0.454	0.403	16.56
48)	TP	Trichloroethene	0.221	0.225	0.243	0.217	0.262	0.269	0.280	0.279	0.250	10.61
50)	TP	Dibromomethane		0.102	0.115	0.114	0.137	0.140	0.149	0.145	0.129	14.02
51)	TC	1,2-Dichloropr...		0.192	0.223	0.206	0.249	0.256	0.266	0.260	0.236	12.23
53)	TP	2-Chloroethyl ...			0.060	0.086	0.123	0.132	0.144	0.142	*L	0.9972
54)	TP	Bromodichlorom...		0.221	0.267	0.263	0.326	0.339	0.360	0.351	0.304	17.56
57)	TP	1,4-Dioxane		0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002#	9.77
58)	TP	cis-1,3-Dichlo...		0.246	0.299	0.298	0.380	0.392	0.415	0.408	0.348	19.06
59)	I	Chlorobenzene-d5	----------ISTD----------									
60)	S	Toluene-d8	1.242	1.240	1.283	1.256	1.253	1.240	1.210	1.184	1.238	2.41
61)	TC	Toluene		0.593	0.719	0.653	0.780	0.768	0.785	0.758	0.722	10.12
62)	TP	4-Methyl-2-pen...			0.067	0.066	0.083	0.087	0.089	0.087	0.080#	13.45
63)	TP	Tetrachloroethene		0.272	0.339	0.310	0.376	0.371	0.374	0.358	0.343	11.42
65)	TP	trans-1,3-Dich...		0.254	0.333	0.346	0.440	0.449	0.463	0.453	*L	0.9987
67)	TP	Ethyl methacry...			0.237	0.237	0.306	0.314	0.325	0.320	0.290	14.30
68)	TP	1,1,2-Trichlor...		0.143	0.186	0.172	0.207	0.208	0.213	0.208	0.191	13.47
69)	TP	Chlorodibromom...		0.172	0.227	0.255	0.324	0.328	0.341	0.330	*Q	0.9987
70)	TP	1,3-Dichloropr...		0.227	0.261	0.234	0.288	0.279	0.277	0.257	0.260	8.95
71)	TP	1,2-Dibromoethane		0.181	0.218	0.205	0.253	0.251	0.255	0.244	0.230	12.62
72)	TP	2-Hexanone		0.117	0.132	0.127	0.161	0.165	0.167	0.159	0.147	14.24
73)	TP	Chlorobenzene		0.675	0.804	0.712	0.865	0.871	0.893	0.871	0.813	10.68

Response Factor Report VOA 105

Method Path : I:\VOLATILES\VOA105\2020\200930N\
Method File : V105_200930N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Thu Oct 01 13:02:53 2020
Response Via : Initial Calibration

Calibration Files
L11 =V05200930N04.d L1 =V05200930N06.d L2 =V05200930N08.d L3 =V05200930N09.d L4 =V05200930N10.d
L6 =V05200930N11.d L8 =V05200930N12.d L10 =V05200930N13.D

		Compound		L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
74)	TC	Ethylbenzene		1.156	1.421	1.263	1.542	1.557	1.588	1.546	1.439	11.69	
75)	TP	1,1,1,2-Tetrac...		0.224	0.272	0.258	0.323	0.327	0.337	0.328	0.296	14.88	
76)	TP	p/m Xylene		0.448	0.540	0.488	0.596	0.614	0.635	0.628	0.564	13.06	
77)	TP	o Xylene		0.399	0.485	0.441	0.540	0.559	0.581	0.573	0.511	13.90	
78)	TP	Styrene		0.590	0.767	0.715	0.925	0.960	0.998	0.965	0.846	18.40	
79)	I	1,4-Dichlorobenzene-d4		----------ISTD----------									
80)	TP	Bromoform		0.190	0.256	0.262	0.354	0.379	0.388		*Q	0.9983	
82)	TP	Isopropylbenzene		2.142	2.616	2.364	2.845	2.906	2.889	2.749	2.644	11.04	
83)	S	4-Bromofluorob...	0.908	0.907	0.916	0.926	0.897	0.898	0.868	0.843	0.895	3.04	
84)	TP	Bromobenzene		0.555	0.647	0.568	0.681	0.685	0.703	0.669	0.644	9.17	
85)	TP	n-Propylbenzene		2.567	3.093	2.802	3.402	3.434	3.439	3.240	3.139	10.88	
86)	TP	1,4-Dichlorobu...		0.638	0.715	0.637	0.779	0.787	0.794	0.758	0.730	9.32	
87)	TP	1,1,2,2-Tetrac...		0.384	0.442	0.407	0.505	0.510	0.515	0.501	0.466	11.74	
88)	TP	4-Ethyltoluene		1.880	2.356	2.215	2.693	2.678	2.703	2.591	2.445	12.75	
89)	TP	2-Chlorotoluene		1.544	1.796	1.574	1.883	1.902	1.912	1.775	1.769	8.64	
90)	TP	1,3,5-Trimethy...		1.797	2.103	1.928	2.363	2.368	2.396	2.332	2.184	11.12	
91)	TP	1,2,3-Trichlor...		0.330	0.379	0.340	0.420	0.422	0.429	0.416	0.391	10.64	
92)	TP	trans-1,4-Dich...			0.109	0.110	0.148	0.155	0.159	0.150	0.138	16.65	
93)	TP	4-Chlorotoluene		1.583	1.832	1.624	1.928	1.960	1.982	1.915	1.832	8.93	
94)	TP	tert-Butylbenzene		1.606	1.920	1.727	2.081	2.090	2.098	2.026	1.935	10.17	
97)	TP	1,2,4-Trimethy...		1.632	2.025	1.864	2.246	2.275	2.321	2.241	2.086	12.38	
98)	TP	sec-Butylbenzene		2.150	2.578	2.335	2.820	2.861	2.848	2.703	2.613	10.60	
99)	TP	p-Isopropyltol...		1.953	2.295	2.122	2.622	2.661	2.657	2.534	2.406	11.87	
100)	TP	1,3-Dichlorobe...		1.043	1.159	1.041	1.237	1.260	1.278	1.238	1.179	8.57	
101)	TP	1,4-Dichlorobe...		1.066	1.183	1.045	1.256	1.255	1.270	1.237	1.187	7.96	
102)	TP	p-Diethylbenzene		0.978	1.242	1.178	1.443	1.489	1.488	1.473	1.327	15.01	
103)	TP	n-Butylbenzene		1.647	2.009	1.814	2.264	2.273	2.291	2.211	2.073	12.39	
104)	TP	1,2-Dichlorobe...		0.898	1.038	0.919	1.115	1.120	1.139	1.100	1.047	9.54	
105)	TP	1,2,4,5-Tetram...		1.431	1.681	1.635	2.043	2.104	2.145	2.125	1.881	15.48	
106)	TP	1,2-Dibromo-3-...		0.040	0.052	0.054	0.072	0.076	0.079		*Q	0.9986	
107)	TP	1,3,5-Trichlor...		0.647	0.725	0.664	0.795	0.812	0.818	0.801	0.752	9.69	

Method Path : I:\VOLATILES\VOA105\2020\200930N\
Method File : V105_200930N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Thu Oct 01 13:02:53 2020
Response Via : Initial Calibration

Calibration Files
L11 =V05200930N04.d L1 =V05200930N06.d L2 =V05200930N08.d L3 =V05200930N09.d L4 =V05200930N10.d
L6 =V05200930N11.d L8 =V05200930N12.d L10 =V05200930N13.D

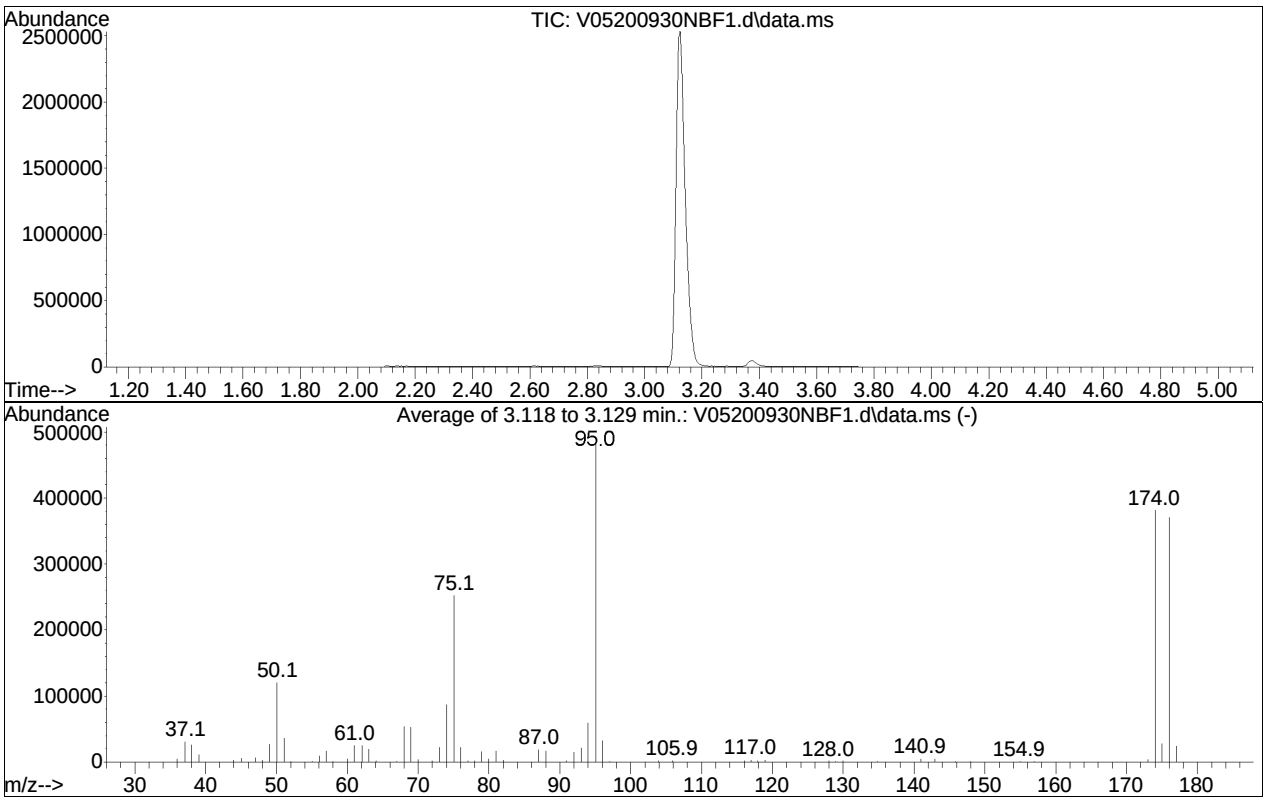
	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
108)	TP Hexachlorobuta...	0.268	0.297	0.256	0.312	0.321	0.315	0.310	0.297		8.57
109)	TP 1,2,4-Trichlor...	0.580	0.614	0.561	0.683	0.692	0.699	0.687	0.645		9.09
110)	TP Naphthalene	1.172	1.163	1.059	1.313	1.322	1.347	1.290	1.238		8.69
111)	TP 1,2,3-Trichlor...	0.500	0.521	0.448	0.546	0.554	0.560	0.539	0.524		7.53

(#) = Out of Range

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05200930NBF1.d
Acq On : 30 Sep 2020 3:11 pm
Operator : VOA105:PD
Sample : WG1416925-1
Misc : WG1416925
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Thu Oct 01 13:02:53 2020



AutoFind: Scans 189, 190, 191; Background Corrected with Scan 179

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.9	120285	PASS
75	95	30	60	52.2	252693	PASS
95	95	100	100	100.0	483819	PASS
96	95	5	9	6.8	32971	PASS
173	174	0.00	2	1.0	3634	PASS
174	95	50	100	78.9	381717	PASS
175	174	5	9	7.3	28013	PASS
176	174	95	101	97.0	370347	PASS
177	176	5	9	6.6	24371	PASS

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05200930N04.d
Acq On : 30 Sep 2020 4:40 pm
Operator : VOA105:PD
Sample : I8260STDL0.19PPB
Misc : WG1416925,ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 01 13:04:56 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\200930N\V05200930N09.d
Sub List : 8260-L11 - Level 11 for 8260-LRR product

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.958	96	243111	10.000	ug/L	0.00
Standard Area 1 = 246979			Recovery = 98.43%			
59) Chlorobenzene-d5	9.480	117	188908	10.000	ug/L	0.00
Standard Area 1 = 187941			Recovery = 100.51%			
79) 1,4-Dichlorobenzene-d4	12.194	152	98070	10.000	ug/L	0.00
Standard Area 1 = 100750			Recovery = 97.34%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.166	113	64619	9.801	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.01%			
43) 1,2-Dichloroethane-d4	5.684	65	79911	9.890	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.90%			
60) Toluene-d8	7.631	98	234561	10.027	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.27%			
83) 4-Bromofluorobenzene	10.979	95	88999	10.136	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.36%			
Target Compounds						Qvalue
4) Vinyl chloride	1.889	62	1021	0.173	ug/L	84
34) Carbon tetrachloride	5.097	117	1029	0.134	ug/L #	78
41) Benzene	5.547	78	3383	0.163	ug/L #	86
48) Trichloroethene	6.134	95	1020	0.168	ug/L	86

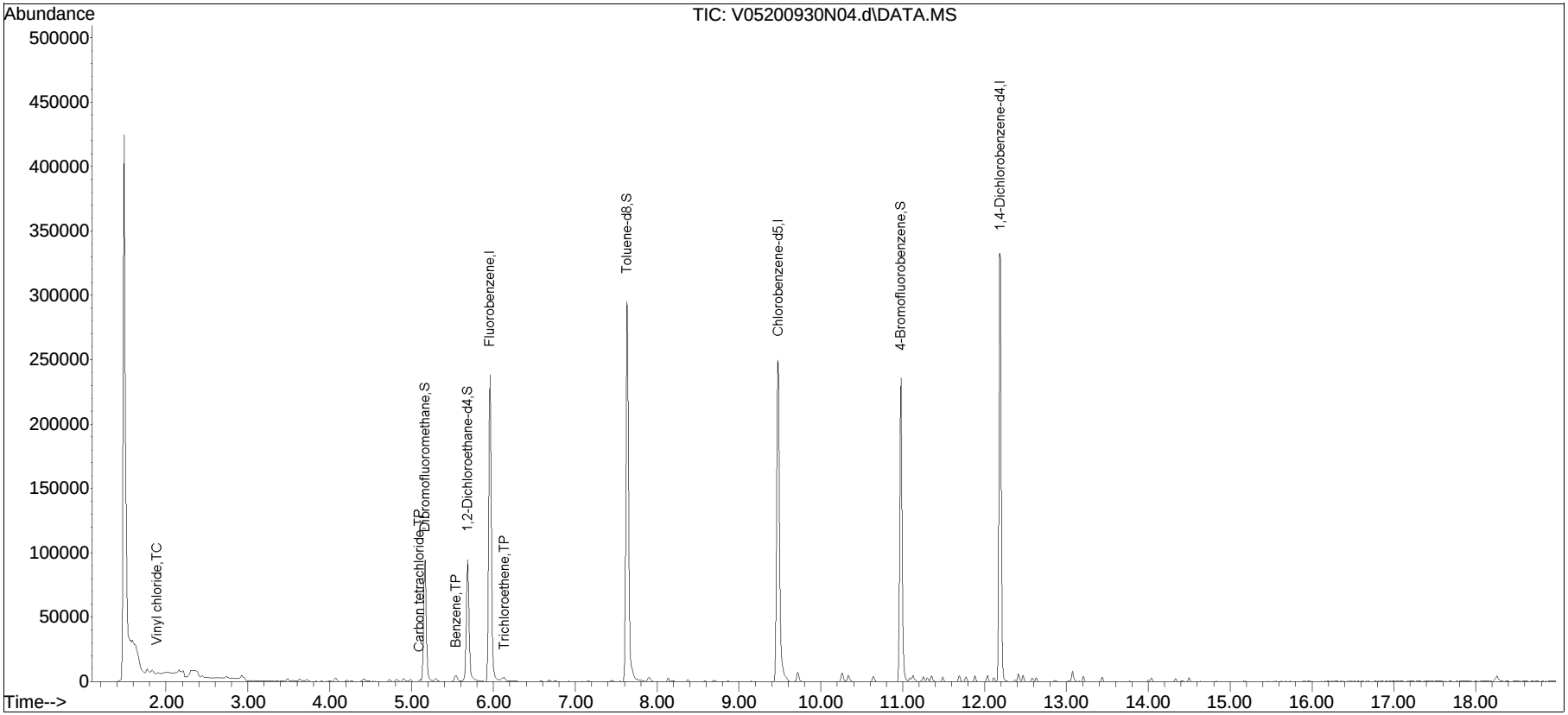
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05200930N04.d
Acq On : 30 Sep 2020 4:40 pm
Operator : VOA105:PD
Sample : I8260STDL0.19PPB
Misc : WG1416925,ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 01 13:04:56 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

Sub List : 8260-L11 - Level 11 for 8260-LRR product200930N09.d•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA105\2020\2Q	Method	: V105_200930N_8260.m
Data File	: V05200930N04.d	Operator	: VOA105:PD
Date Inj'd	: 9/30/2020 4:40 pm	Instrument	: VOA 105
Sample	: I8260STDL0.19PPB	Quant Date	: 10/1/2020 1:04 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05200930N06.d
Acq On : 30 Sep 2020 5:26 pm
Operator : VOA105:PD
Sample : I8260STDL0.5PPB
Misc : WG1416925,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 01 13:05:04 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\200930N\V05200930N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.958	96	245411	10.000	ug/L	0.00
Standard Area 1 = 246979			Recovery = 99.37%			
59) Chlorobenzene-d5	9.470	117	189126	10.000	ug/L	0.00
Standard Area 1 = 187941			Recovery = 100.63%			
79) 1,4-Dichlorobenzene-d4	12.194	152	99294	10.000	ug/L	0.00
Standard Area 1 = 100750			Recovery = 98.55%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.166	113	65801	9.887	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.87%			
43) 1,2-Dichloroethane-d4	5.684	65	80473	9.866	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.66%			
60) Toluene-d8	7.631	98	234470	10.012	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.12%			
83) 4-Bromofluorobenzene	10.979	95	90073	10.132	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.32%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.625	85	1410	0.375	ug/L	90
3) Chloromethane	1.831	50	2589	0.433	ug/L #	88
4) Vinyl chloride	1.889	62	2187	0.368	ug/L	99
5) Bromomethane	2.202	94	1243	0.542	ug/L	84
6) Chloroethane	2.310	64	3534	0.511	ug/L	69
7) Trichlorofluoromethane	2.447	101	3855	0.391	ug/L	99
8) Ethyl ether	2.740	74	1317	0.436	ug/L #	21
10) 1,1-Dichloroethene	2.926	96	2377	0.412	ug/L	94
11) Carbon disulfide	2.955	76	4629	0.401	ug/L #	90
12) Freon-113	2.955	101	2181	0.394	ug/L	88
13) Iodomethane	3.063	142	2227	0.299	ug/L #	80
14) Acrolein	0.000		0	N.D.		
15) Methylene chloride	3.483	84	2433	0.449	ug/L #	58
17) Acetone	3.542	43	1599	1.308	ug/L #	60
18) trans-1,2-Dichloroethene	3.630	96	1916	0.378	ug/L	88
19) Methyl acetate	3.650	43	2596	0.847	ug/L #	49
20) Methyl tert-butyl ether	3.728	73	5218	0.435	ug/L #	80
21) tert-Butyl alcohol	3.836	59	800	2.236	ug/L #	55
22) Diisopropyl ether	4.070	45	8639	0.429	ug/L #	92
23) 1,1-Dichloroethane	4.207	63	4513	0.420	ug/L	91
24) Halothane	4.266	117	1507	0.366	ug/L	86

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05200930N06.d
Acq On : 30 Sep 2020 5:26 pm
Operator : VOA105:PD
Sample : I8260STDL0.5PPB
Misc : WG1416925,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 01 13:05:04 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\200930N\V05200930N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.295	53	249	0.188	ug/L	#	31
26) Ethyl tert-butyl ether	4.413	59	7054	0.409	ug/L	#	81
27) Vinyl acetate	4.452	43	5064	0.402	ug/L	#	79
28) cis-1,2-Dichloroethene	4.726	96	2421	0.390	ug/L		87
29) 2,2-Dichloropropane	4.823	77	3207	0.398	ug/L	#	67
30) Bromochloromethane	4.921	128	983	0.365	ug/L	#	51
31) Cyclohexane	4.892	56	3800	0.361	ug/L		77
32) Chloroform	4.990	83	4281	0.422	ug/L	#	95
33) Ethyl acetate	5.107	43	1926	0.430	ug/L	#	64
34) Carbon tetrachloride	5.107	117	3121	0.402	ug/L		94
35) Tetrahydrofuran	5.136	42	471	0.401	ug/L	#	31
37) 1,1,1-Trichloroethane	5.176	97	3621	0.385	ug/L		89
39) 2-Butanone	5.303	43	1523	0.798	ug/L	#	32
40) 1,1-Dichloropropene	5.293	75	3020	0.391	ug/L		93
41) Benzene	5.547	78	9132	0.436	ug/L		92
42) tert-Amyl methyl ether	5.645	73	5423	0.411	ug/L		96
44) 1,2-Dichloroethane	5.753	62	3510	0.448	ug/L	#	90
47) Methyl cyclohexane	6.114	83	3641	0.368	ug/L	#	75
48) Trichloroethene	6.134	95	2755	0.450	ug/L		95
50) Dibromomethane	6.584	93	1254	0.397	ug/L		94
51) 1,2-Dichloropropane	6.682	63	2362	0.408	ug/L	#	83
53) 2-Chloroethyl vinyl ether	7.376	63	442	1.829	ug/L	#	78
54) Bromodichloromethane	6.750	83	2711	0.363	ug/L	#	96
57) 1,4-Dioxane	6.956	88	3104	82.247	ug/L	#	75
58) cis-1,3-Dichloropropene	7.445	75	3014	0.353	ug/L	#	77
61) Toluene	7.689	92	5611	0.411	ug/L		98
62) 4-Methyl-2-pentanone	8.139	58	374	0.247	ug/L	#	1
63) Tetrachloroethene	8.129	166	2571	0.397	ug/L		95
65) trans-1,3-Dichloropropene	8.188	75	2404	0.643	ug/L	#	78
67) Ethyl methacrylate	8.374	69	1673	0.305	ug/L	#	92
68) 1,1,2-Trichloroethane	8.374	83	1356	0.375	ug/L		94
69) Chlorodibromomethane	8.589	129	1622	0.636	ug/L	#	91
70) 1,3-Dichloropropane	8.687	76	2143	0.435	ug/L		99
71) 1,2-Dibromoethane	8.863	107	1708	0.393	ug/L		88
72) 2-Hexanone	9.147	43	1102	0.397	ug/L	#	65
73) Chlorobenzene	9.500	112	6386	0.415	ug/L	#	81
74) Ethylbenzene	9.529	91	10927	0.402	ug/L		98
75) 1,1,1,2-Tetrachloroethane	9.588	131	2118	0.379	ug/L	#	65
76) p/m Xylene	9.715	106	8464	0.794	ug/L		88
77) o Xylene	10.254	106	7538	0.780	ug/L		87

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05200930N06.d
Acq On : 30 Sep 2020 5:26 pm
Operator : VOA105:PD
Sample : I8260STDL0.5PPB
Misc : WG1416925,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 01 13:05:04 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\200930N\V05200930N09.d
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78)	Styrene	10.333	104	11165	0.698	ug/L		92
80)	Bromoform	10.362	173	945	0.597	ug/L	#	69
82)	Isopropylbenzene	10.646	105	10633	0.405	ug/L		94
84)	Bromobenzene	11.087	156	2756	0.431	ug/L		97
85)	n-Propylbenzene	11.126	91	12744	0.409	ug/L		97
86)	1,4-Dichlorobutane	11.155	55	3168	0.437	ug/L		95
87)	1,1,2,2-Tetrachloroethane	11.234	83	1905	0.412	ug/L	#	92
88)	4-Ethyltoluene	11.253	105	9336	0.385	ug/L		92
89)	2-Chlorotoluene	11.302	91	7666M1	0.436	ug/L		
90)	1,3,5-Trimethylbenzene	11.351	105	8923	0.411	ug/L		96
91)	1,2,3-Trichloropropane	11.371	75	1636	0.421	ug/L		90
92)	trans-1,4-Dichloro-2-b...	11.420	53	268	0.195	ug/L	#	53
93)	4-Chlorotoluene	11.488	91	7857	0.432	ug/L		95
94)	tert-Butylbenzene	11.694	119	7971	0.415	ug/L		98
97)	1,2,4-Trimethylbenzene	11.773	105	8101	0.391	ug/L		95
98)	sec-Butylbenzene	11.880	105	10674	0.411	ug/L		98
99)	p-Isopropyltoluene	12.037	119	9695	0.406	ug/L		97
100)	1,3-Dichlorobenzene	12.115	146	5177	0.442	ug/L		95
101)	1,4-Dichlorobenzene	12.204	146	5293M2	0.449	ug/L		
102)	p-Diethylbenzene	12.409	119	4857	0.368	ug/L		95
103)	n-Butylbenzene	12.468	91	8175	0.397	ug/L		96
104)	1,2-Dichlorobenzene	12.635	146	4458	0.429	ug/L		98
105)	1,2,4,5-Tetramethylben...	13.203	119	7104	0.380	ug/L		93
106)	1,2-Dibromo-3-chloropr...	13.418	155	200	0.594	ug/L		89
107)	1,3,5-Trichlorobenzene	13.438	180	3210	0.430	ug/L		97
108)	Hexachlorobutadiene	14.006	225	1329	0.451	ug/L		97
109)	1,2,4-Trichlorobenzene	14.035	180	2878	0.449	ug/L	#	91
110)	Naphthalene	14.329	128	5821	0.474	ug/L		100
111)	1,2,3-Trichlorobenzene	14.506	180	2480	0.477	ug/L		99

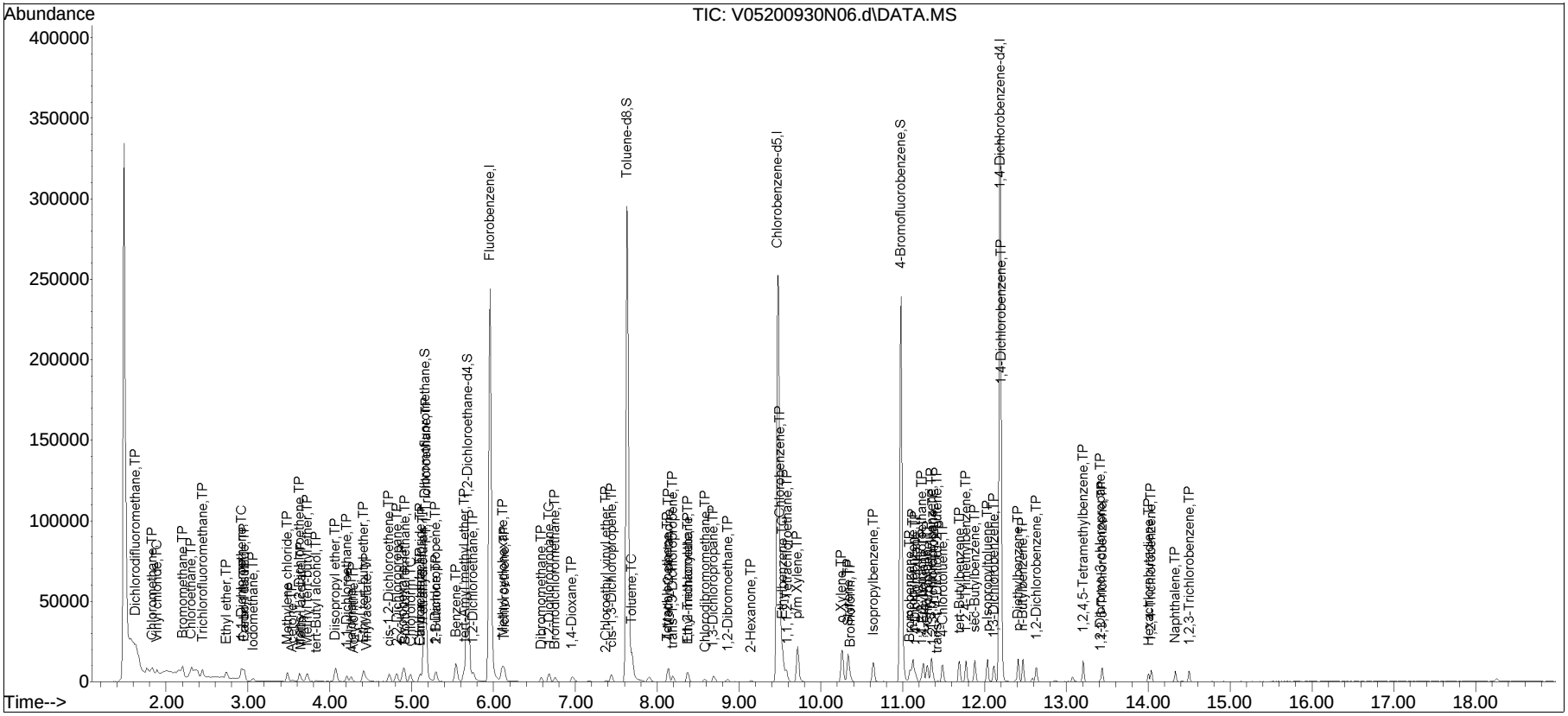
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05200930N06.d
Acq On : 30 Sep 2020 5:26 pm
Operator : VOA105:PD
Sample : I8260STDL0.5PPB
Misc : WG1416925,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 01 13:05:04 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

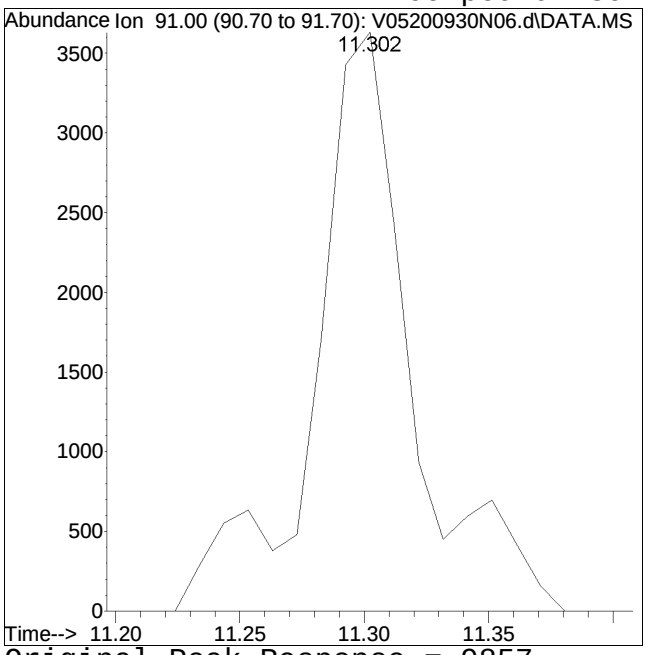
Sub List : 8260-Curve - Megamix plus Diox00930N\V05200930N09.d•

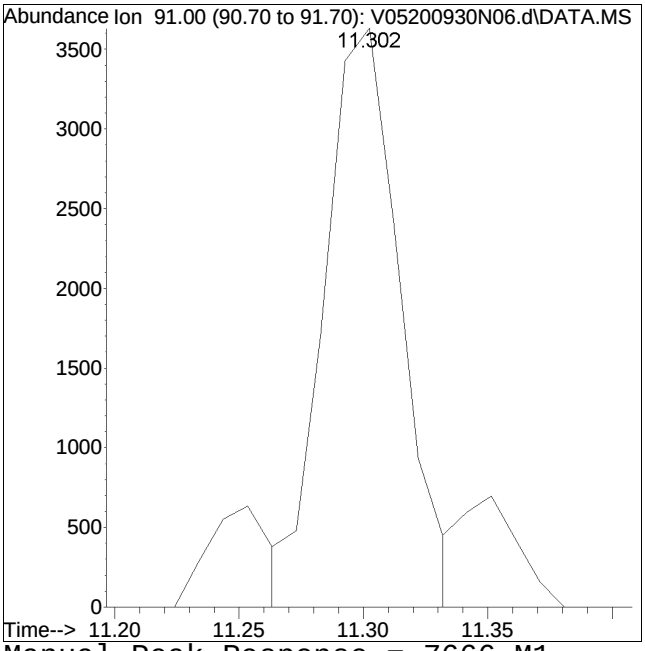


Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2020\2QMethod : V105_200930N_8260.m
Data File : V05200930N06.d Operator : VOA105:PD
Date Inj'd : 9/30/2020 5:26 pm Instrument : VOA 105
Sample : I8260STDL0.5PPB Quant Date : 10/1/2020 1:04 pm

Compound #89: 2-Chlorotoluene



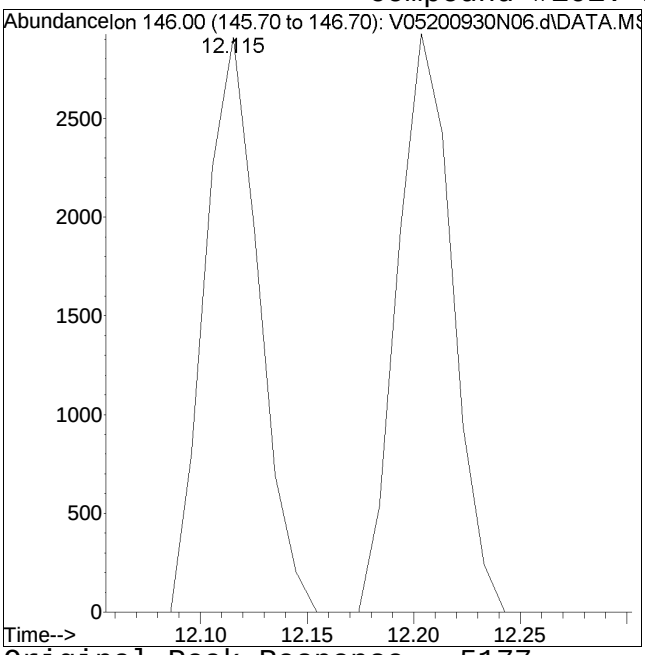


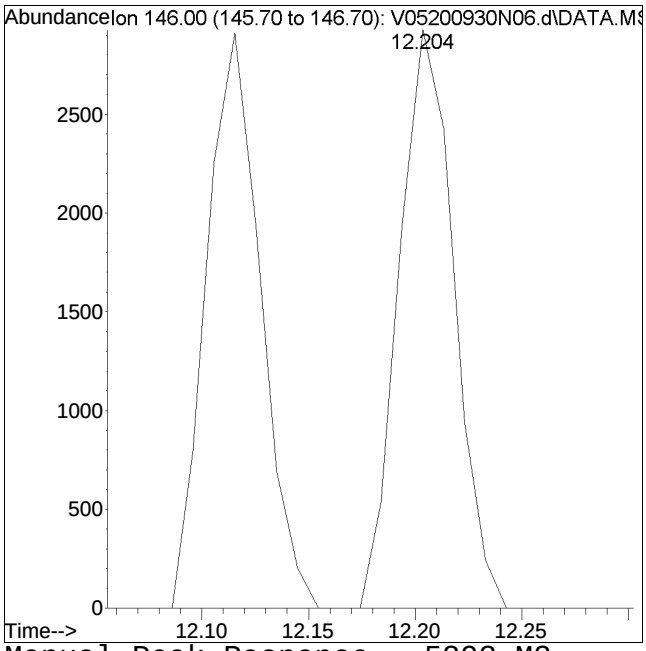
Original Peak Response = 9857 Manual Peak Response = 7666 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2020\2QMethod : V105_200930N_8260.m
Data File : V05200930N06.d Operator : VOA105:PD
Date Inj'd : 9/30/2020 5:26 pm Instrument : VOA 105
Sample : I8260STDL0.5PPB Quant Date : 10/1/2020 1:04 pm

Compound #101: 1,4-Dichlorobenzene





Original Peak Response = 5177 Manual Peak Response = 5293 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05200930N08.d
Acq On : 30 Sep 2020 6:13 pm
Operator : VOA105:PD
Sample : I8260STDL2PPB
Misc : WG1416925,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 01 13:05:12 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\200930N\V05200930N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.958	96	249334	10.000	ug/L	0.00
Standard Area 1 = 246979			Recovery = 100.95%			
59) Chlorobenzene-d5	9.480	117	186750	10.000	ug/L	0.00
Standard Area 1 = 187941			Recovery = 99.37%			
79) 1,4-Dichlorobenzene-d4	12.194	152	99916	10.000	ug/L	0.00
Standard Area 1 = 100750			Recovery = 99.17%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.166	113	67337	9.959	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.59%			
43) 1,2-Dichloroethane-d4	5.684	65	81918	9.885	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.85%			
60) Toluene-d8	7.631	98	239544	10.359	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.59%			
83) 4-Bromofluorobenzene	10.979	95	91494	10.228	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.28%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.625	85	7204	1.886	ug/L #	97
3) Chloromethane	1.831	50	12012	1.977	ug/L	97
4) Vinyl chloride	1.889	62	11735	1.942	ug/L	93
5) Bromomethane	2.202	94	6083	2.075	ug/L	92
6) Chloroethane	2.310	64	10945	2.003	ug/L	89
7) Trichlorofluoromethane	2.447	101	19181	1.916	ug/L	98
8) Ethyl ether	2.740	74	6066	1.975	ug/L #	46
10) 1,1-Dichloroethene	2.926	96	11517	1.964	ug/L	87
11) Carbon disulfide	2.955	76	19465	1.661	ug/L	99
12) Freon-113	2.955	101	10126	1.800	ug/L	80
13) Iodomethane	3.063	142	12380	1.635	ug/L	87
14) Acrolein	3.268	56	954	1.622	ug/L	90
15) Methylene chloride	3.484	84	10997	1.998	ug/L #	68
17) Acetone	3.542	43	3118	2.510	ug/L #	85
18) trans-1,2-Dichloroethene	3.630	96	9878	1.919	ug/L	89
19) Methyl acetate	3.650	43	6692	2.148	ug/L #	70
20) Methyl tert-butyl ether	3.718	73	22585	1.851	ug/L #	80
21) tert-Butyl alcohol	3.836	59	3351	9.220	ug/L	90
22) Diisopropyl ether	4.070	45	39125	1.913	ug/L #	92
23) 1,1-Dichloroethane	4.207	63	21410	1.959	ug/L	96
24) Halothane	4.256	117	7817	1.871	ug/L	99

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05200930N08.d
Acq On : 30 Sep 2020 6:13 pm
Operator : VOA105:PD
Sample : I8260STDL2PPB
Misc : WG1416925,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 01 13:05:12 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\200930N\V05200930N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.286	53	2115	1.573	ug/L	#	90
26) Ethyl tert-butyl ether	4.413	59	32972	1.881	ug/L	#	82
27) Vinyl acetate	4.442	43	23670	1.849	ug/L	#	90
28) cis-1,2-Dichloroethene	4.726	96	12648	2.005	ug/L		94
29) 2,2-Dichloropropane	4.814	77	15357	1.876	ug/L	#	72
30) Bromochloromethane	4.912	128	5262	1.924	ug/L	#	67
31) Cyclohexane	4.902	56	19564	1.827	ug/L		76
32) Chloroform	4.990	83	20554	1.993	ug/L	#	93
33) Ethyl acetate	5.097	43	8790	1.931	ug/L	#	85
34) Carbon tetrachloride	5.107	117	14996	1.899	ug/L		97
35) Tetrahydrofuran	5.137	42	2458M1	2.059	ug/L		
37) 1,1,1-Trichloroethane	5.176	97	18257	1.909	ug/L		93
39) 2-Butanone	5.283	43	3990	2.058	ug/L	#	51
40) 1,1-Dichloropropene	5.293	75	15128	1.930	ug/L		94
41) Benzene	5.538	78	42982	2.022	ug/L	#	92
42) tert-Amyl methyl ether	5.645	73	24285	1.811	ug/L		97
44) 1,2-Dichloroethane	5.753	62	15528	1.949	ug/L		99
47) Methyl cyclohexane	6.105	83	18081	1.800	ug/L	#	79
48) Trichloroethene	6.134	95	12128	1.948	ug/L		97
50) Dibromomethane	6.584	93	5743	1.790	ug/L		93
51) 1,2-Dichloropropane	6.682	63	11129	1.890	ug/L	#	89
53) 2-Chloroethyl vinyl ether	7.376	63	3016	2.559	ug/L	#	89
54) Bromodichloromethane	6.750	83	13303	1.755	ug/L		99
57) 1,4-Dioxane	6.966	88	14026	365.802	ug/L	#	76
58) cis-1,3-Dichloropropene	7.435	75	14899	1.716	ug/L	#	74
61) Toluene	7.689	92	26855	1.991	ug/L		95
62) 4-Methyl-2-pentanone	8.139	58	2509	1.678	ug/L	#	79
63) Tetrachloroethene	8.139	166	12651	1.977	ug/L		96
65) trans-1,3-Dichloropropene	8.188	75	12427	1.830	ug/L	#	69
67) Ethyl methacrylate	8.364	69	8863	1.637	ug/L		92
68) 1,1,2-Trichloroethane	8.374	83	6950	1.949	ug/L		94
69) Chlorodibromomethane	8.579	129	8480	1.766	ug/L		97
70) 1,3-Dichloropropane	8.687	76	9765	2.008	ug/L		97
71) 1,2-Dibromoethane	8.853	107	8143	1.900	ug/L		97
72) 2-Hexanone	9.147	43	4940	1.802	ug/L	#	87
73) Chlorobenzene	9.500	112	30040	1.978	ug/L		96
74) Ethylbenzene	9.529	91	53069	1.975	ug/L		97
75) 1,1,1,2-Tetrachloroethane	9.578	131	10163	1.841	ug/L		93
76) p/m Xylene	9.716	106	40336	3.830	ug/L		88
77) o Xylene	10.254	106	36230	3.796	ug/L		87

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05200930N08.d
Acq On : 30 Sep 2020 6:13 pm
Operator : VOA105:PD
Sample : I8260STDL2PPB
Misc : WG1416925,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 01 13:05:12 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\200930N\V05200930N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.333	104	57308	3.628	ug/L		91
80) Bromoform	10.362	173	5110	1.866	ug/L		96
82) Isopropylbenzene	10.636	105	52283	1.979	ug/L		94
84) Bromobenzene	11.087	156	12932	2.010	ug/L		96
85) n-Propylbenzene	11.126	91	61809	1.970	ug/L		95
86) 1,4-Dichlorobutane	11.156	55	14279	1.959	ug/L		94
87) 1,1,2,2-Tetrachloroethane	11.234	83	8828	1.895	ug/L		98
88) 4-Ethyltoluene	11.253	105	47086	1.927	ug/L		96
89) 2-Chlorotoluene	11.293	91	35889M1	2.030	ug/L		
90) 1,3,5-Trimethylbenzene	11.351	105	42032	1.926	ug/L		93
91) 1,2,3-Trichloropropane	11.371	75	7581	1.940	ug/L		99
92) trans-1,4-Dichloro-2-b...	11.420	53	2169	1.569	ug/L	#	78
93) 4-Chlorotoluene	11.479	91	36609	2.000	ug/L		93
94) tert-Butylbenzene	11.694	119	38375	1.985	ug/L		96
97) 1,2,4-Trimethylbenzene	11.773	105	40472	1.941	ug/L		93
98) sec-Butylbenzene	11.880	105	51507	1.973	ug/L		96
99) p-Isopropyltoluene	12.037	119	45866	1.908	ug/L		95
100) 1,3-Dichlorobenzene	12.116	146	23160	1.965	ug/L		96
101) 1,4-Dichlorobenzene	12.204	146	23636	1.992	ug/L		98
102) p-Diethylbenzene	12.409	119	24816	1.871	ug/L		97
103) n-Butylbenzene	12.468	91	40139	1.938	ug/L		97
104) 1,2-Dichlorobenzene	12.635	146	20744	1.983	ug/L		96
105) 1,2,4,5-Tetramethylben...	13.203	119	33595	1.788	ug/L		96
106) 1,2-Dibromo-3-chloropr...	13.409	155	1032	1.852	ug/L		95
107) 1,3,5-Trichlorobenzene	13.438	180	14489	1.929	ug/L		98
108) Hexachlorobutadiene	14.006	225	5929	1.999	ug/L		98
109) 1,2,4-Trichlorobenzene	14.036	180	12273	1.904	ug/L		99
110) Naphthalene	14.329	128	23235	1.878	ug/L		100
111) 1,2,3-Trichlorobenzene	14.496	180	10403	1.988	ug/L		98

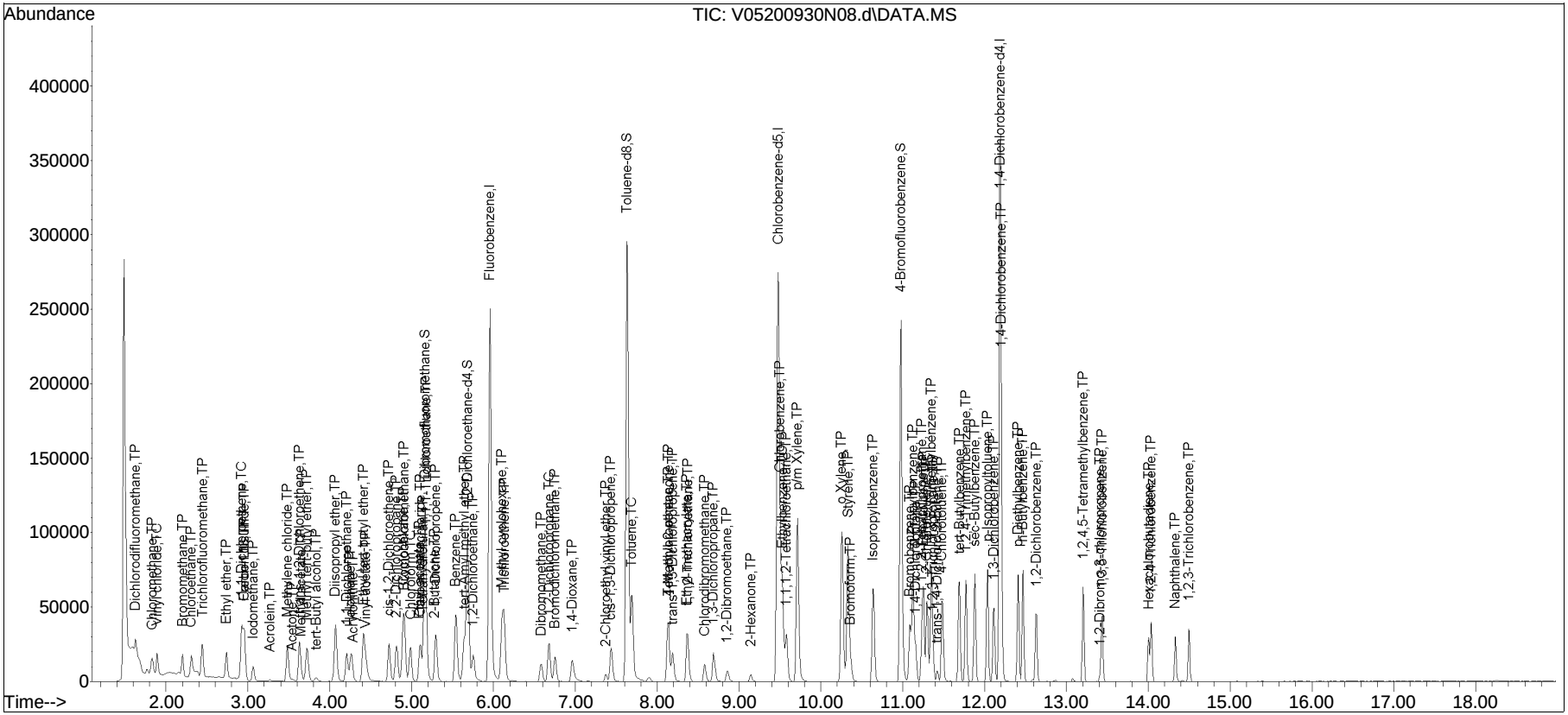
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05200930N08.d
Acq On : 30 Sep 2020 6:13 pm
Operator : VOA105:PD
Sample : I8260STDL2PPB
Misc : WG1416925,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 01 13:05:12 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

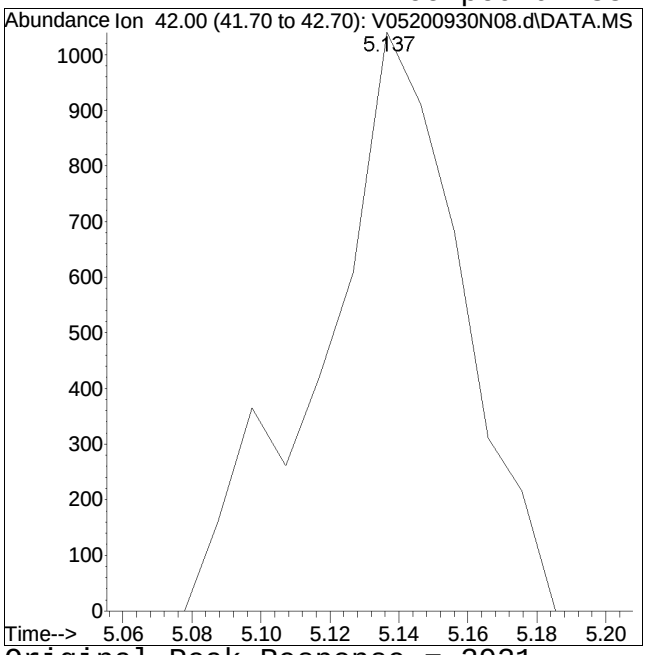
Sub List : 8260-Curve - Megamix plus Diox00930N\V05200930N09.d•

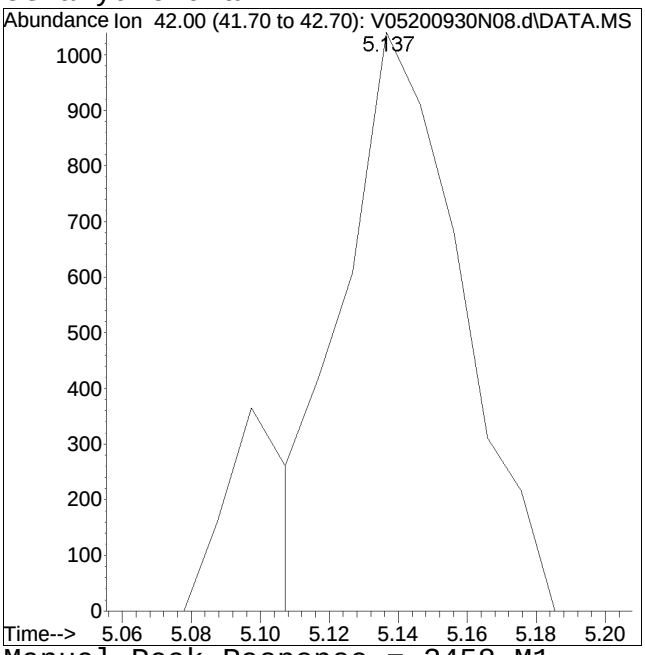


Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2020\2QMethod : V105_200930N_8260.m
Data File : V05200930N08.d Operator : VOA105:PD
Date Inj'd : 9/30/2020 6:13 pm Instrument : VOA 105
Sample : I8260STDL2PPB Quant Date : 10/1/2020 1:05 pm

Compound #35: Tetrahydrofuran



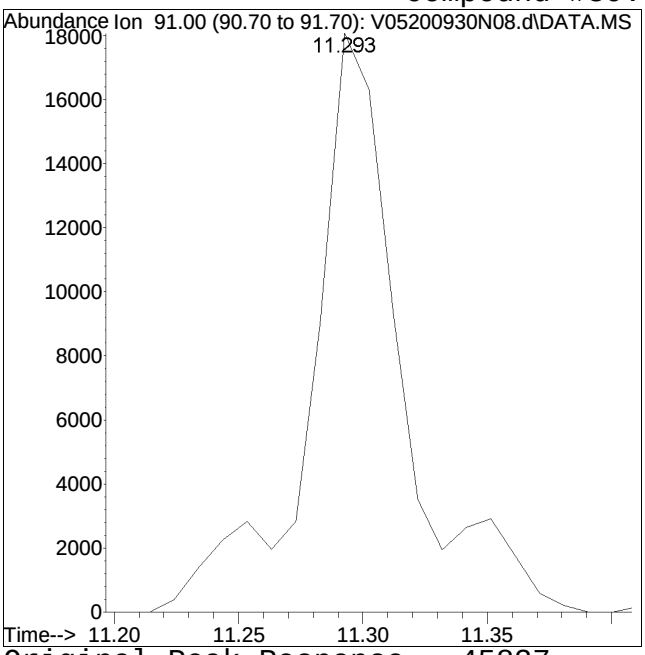


Original Peak Response = 2921 Manual Peak Response = 2458 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

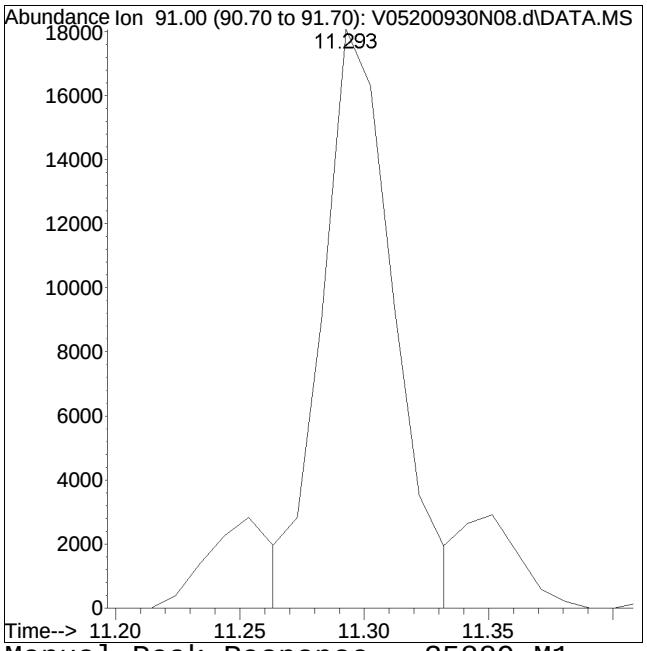
Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2020\2QMethod : V105_200930N_8260.m
Data File : V05200930N08.d Operator : VOA105:PD
Date Inj'd : 9/30/2020 6:13 pm Instrument : VOA 105
Sample : I8260STDL2PPB Quant Date : 10/1/2020 1:05 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 45837



Manual Peak Response = 35889 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05200930N09.d
Acq On : 30 Sep 2020 6:36 pm
Operator : VOA105:PD
Sample : I8260STDL10PPB
Misc : WG1416925,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 01 13:05:20 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\200930N\V05200930N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.958	96	246979	10.000	ug/L	0.00
Standard Area 1 = 246979			Recovery = 100.00%			
59) Chlorobenzene-d5	9.471	117	187941	10.000	ug/L	0.00
Standard Area 1 = 187941			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	12.194	152	100750	10.000	ug/L	0.00
Standard Area 1 = 100750			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.156	113	67114	10.020	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.20%			
43) 1,2-Dichloroethane-d4	5.684	65	84065	10.241	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.41%			
60) Toluene-d8	7.631	98	235993	10.140	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.40%			
83) 4-Bromofluorobenzene	10.979	95	93319	10.345	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.45%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.625	85	33057	8.738	ug/L #	95
3) Chloromethane	1.831	50	53523	8.895	ug/L	99
4) Vinyl chloride	1.889	62	54458	9.097	ug/L	96
5) Bromomethane	2.202	94	26309	8.378	ug/L	99
6) Chloroethane	2.310	64	45219	9.176	ug/L	93
7) Trichlorofluoromethane	2.447	101	90205	9.098	ug/L	100
8) Ethyl ether	2.740	74	26705	8.777	ug/L #	50
10) 1,1-Dichloroethene	2.926	96	51112	8.797	ug/L	87
11) Carbon disulfide	2.955	76	99177	8.543	ug/L	100
12) Freon-113	2.955	101	49385	8.863	ug/L	83
13) Iodomethane	3.063	142	63212	8.430	ug/L	91
14) Acrolein	3.259	56	4740	8.138	ug/L	100
15) Methylene chloride	3.484	84	47658	8.742	ug/L #	68
17) Acetone	3.533	43	10376	8.432	ug/L	97
18) trans-1,2-Dichloroethene	3.630	96	46532	9.128	ug/L	94
19) Methyl acetate	3.650	43	25774	8.352	ug/L #	78
20) Methyl tert-butyl ether	3.718	73	105491	8.730	ug/L #	84
21) tert-Butyl alcohol	3.836	59	15118	41.995	ug/L	98
22) Diisopropyl ether	4.070	45	177867	8.779	ug/L #	93
23) 1,1-Dichloroethane	4.207	63	96926	8.953	ug/L	96
24) Halothane	4.256	117	37152	8.977	ug/L	100

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05200930N09.d
Acq On : 30 Sep 2020 6:36 pm
Operator : VOA105:PD
Sample : I8260STDL10PPB
Misc : WG1416925,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 01 13:05:20 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\200930N\V05200930N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.276	53	11177	8.390	ug/L	#	88
26) Ethyl tert-butyl ether	4.413	59	149268	8.598	ug/L	#	80
27) Vinyl acetate	4.442	43	111199	8.767	ug/L	#	91
28) cis-1,2-Dichloroethene	4.726	96	57555	9.209	ug/L		94
29) 2,2-Dichloropropane	4.814	77	71488	8.814	ug/L	#	77
30) Bromochloromethane	4.912	128	24670	9.108	ug/L	#	76
31) Cyclohexane	4.902	56	94457	8.905	ug/L		74
32) Chloroform	4.980	83	90175	8.828	ug/L	#	92
33) Ethyl acetate	5.097	43	38744	8.593	ug/L	#	92
34) Carbon tetrachloride	5.107	117	69531	8.890	ug/L		99
35) Tetrahydrofuran	5.137	42	10601M1	8.964	ug/L		
37) 1,1,1-Trichloroethane	5.176	97	85011	8.976	ug/L		94
39) 2-Butanone	5.283	43	16678	8.686	ug/L	#	61
40) 1,1-Dichloropropene	5.293	75	69968	9.013	ug/L		96
41) Benzene	5.538	78	188488	8.951	ug/L	#	92
42) tert-Amyl methyl ether	5.645	73	114623	8.630	ug/L		96
44) 1,2-Dichloroethane	5.753	62	69302	8.782	ug/L		99
47) Methyl cyclohexane	6.105	83	85532	8.594	ug/L	#	76
48) Trichloroethene	6.134	95	53676	8.706	ug/L		96
50) Dibromomethane	6.584	93	28041	8.821	ug/L		93
51) 1,2-Dichloropropane	6.672	63	50910	8.730	ug/L	#	89
53) 2-Chloroethyl vinyl ether	7.367	63	21334	7.824	ug/L		90
54) Bromodichloromethane	6.750	83	64972	8.655	ug/L		100
57) 1,4-Dioxane	6.966	88	19236	506.464	ug/L	#	80
58) cis-1,3-Dichloropropene	7.435	75	73578	8.557	ug/L	#	81
61) Toluene	7.689	92	122748	9.041	ug/L		99
62) 4-Methyl-2-pentanone	8.130	58	12331	8.197	ug/L	#	77
63) Tetrachloroethene	8.130	166	58257	9.044	ug/L		96
65) trans-1,3-Dichloropropene	8.188	75	64941	7.982	ug/L	#	73
67) Ethyl methacrylate	8.364	69	44542	8.172	ug/L		92
68) 1,1,2-Trichloroethane	8.364	83	32278	8.993	ug/L		98
69) Chlorodibromomethane	8.579	129	47931	8.192	ug/L		98
70) 1,3-Dichloropropane	8.687	76	43924	8.976	ug/L		100
71) 1,2-Dibromoethane	8.854	107	38466	8.916	ug/L		100
72) 2-Hexanone	9.138	43	23834	8.637	ug/L		93
73) Chlorobenzene	9.500	112	133724	8.751	ug/L		93
74) Ethylbenzene	9.529	91	237324	8.776	ug/L		95
75) 1,1,1,2-Tetrachloroethane	9.578	131	48465	8.725	ug/L		97
76) p/m Xylene	9.716	106	183352	17.298	ug/L		88
77) o Xylene	10.254	106	165600	17.239	ug/L		87

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05200930N09.d
Acq On : 30 Sep 2020 6:36 pm
Operator : VOA105:PD
Sample : I8260STDL10PPB
Misc : WG1416925,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 01 13:05:20 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\200930N\V05200930N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	10.333	104	269956	16.983	ug/L	91
80) Bromoform	10.362	173	26362	8.204	ug/L	98
82) Isopropylbenzene	10.636	105	238185	8.940	ug/L	93
84) Bromobenzene	11.087	156	57199	8.815	ug/L	99
85) n-Propylbenzene	11.126	91	282253	8.924	ug/L	96
86) 1,4-Dichlorobutane	11.156	55	64208	8.735	ug/L	96
87) 1,1,2,2-Tetrachloroethane	11.224	83	40981	8.725	ug/L	99
88) 4-Ethyltoluene	11.254	105	223167	9.058	ug/L	96
89) 2-Chlorotoluene	11.293	91	158626M1	8.898	ug/L	
90) 1,3,5-Trimethylbenzene	11.352	105	194288	8.830	ug/L	93
91) 1,2,3-Trichloropropane	11.371	75	34289	8.704	ug/L	97
92) trans-1,4-Dichloro-2-b...	11.420	53	11037M1	7.916	ug/L	
93) 4-Chlorotoluene	11.479	91	163610	8.864	ug/L	93
94) tert-Butylbenzene	11.685	119	173964	8.922	ug/L	95
97) 1,2,4-Trimethylbenzene	11.773	105	187826	8.935	ug/L	93
98) sec-Butylbenzene	11.881	105	235246	8.934	ug/L	96
99) p-Isopropyltoluene	12.037	119	213794	8.818	ug/L	96
100) 1,3-Dichlorobenzene	12.116	146	104889	8.827	ug/L	97
101) 1,4-Dichlorobenzene	12.204	146	105249	8.798	ug/L	98
102) p-Diethylbenzene	12.409	119	118693	8.875	ug/L	97
103) n-Butylbenzene	12.468	91	182781	8.753	ug/L	97
104) 1,2-Dichlorobenzene	12.625	146	92590	8.778	ug/L	97
105) 1,2,4,5-Tetramethylben...	13.203	119	164693	8.693	ug/L	95
106) 1,2-Dibromo-3-chloropr...	13.418	155	5441	8.373	ug/L	99
107) 1,3,5-Trichlorobenzene	13.438	180	66896	8.833	ug/L	98
108) Hexachlorobutadiene	14.006	225	25747	8.608	ug/L	99
109) 1,2,4-Trichlorobenzene	14.036	180	56547	8.698	ug/L	99
110) Naphthalene	14.329	128	106644	8.550	ug/L	100
111) 1,2,3-Trichlorobenzene	14.496	180	45097	8.546	ug/L	98

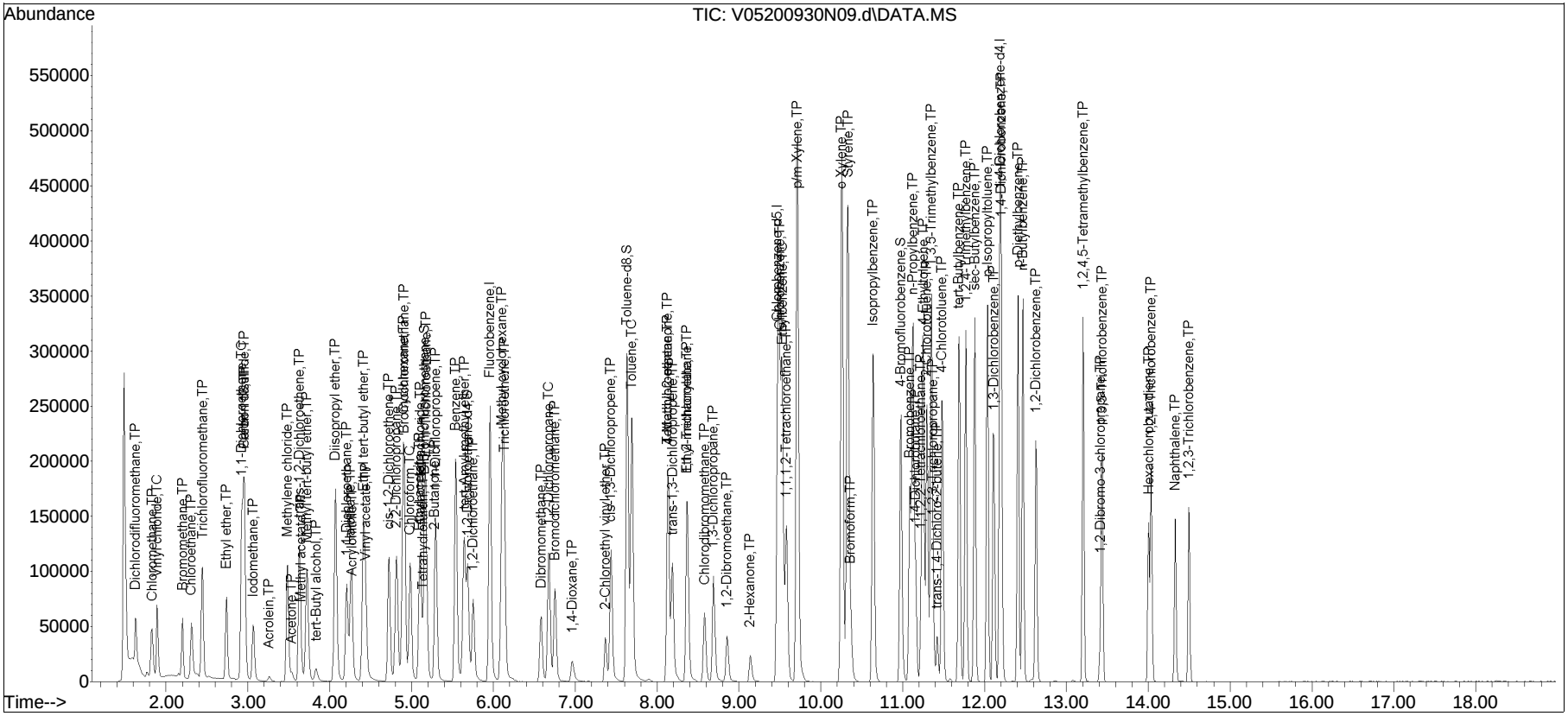
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05200930N09.d
Acq On : 30 Sep 2020 6:36 pm
Operator : VOA105:PD
Sample : I8260STDL10PPB
Misc : WG1416925,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 01 13:05:20 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

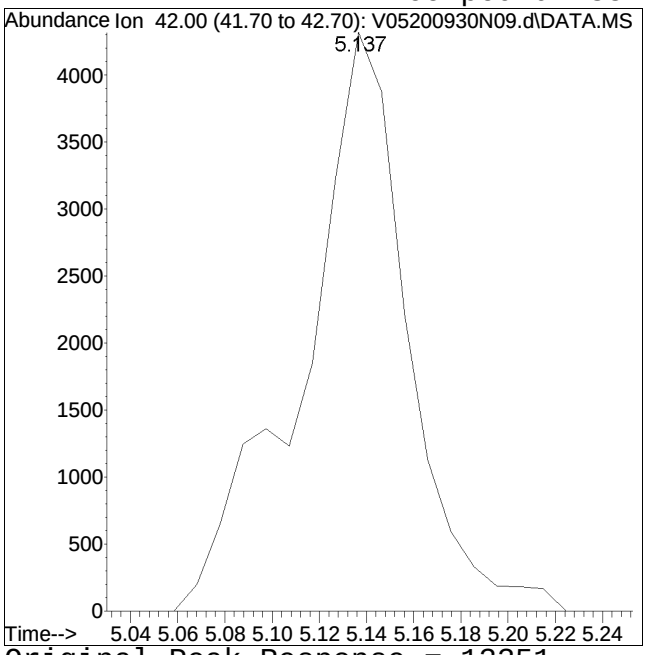
Sub List : 8260-Curve - Megamix plus Diox00930N\V05200930N09.d•



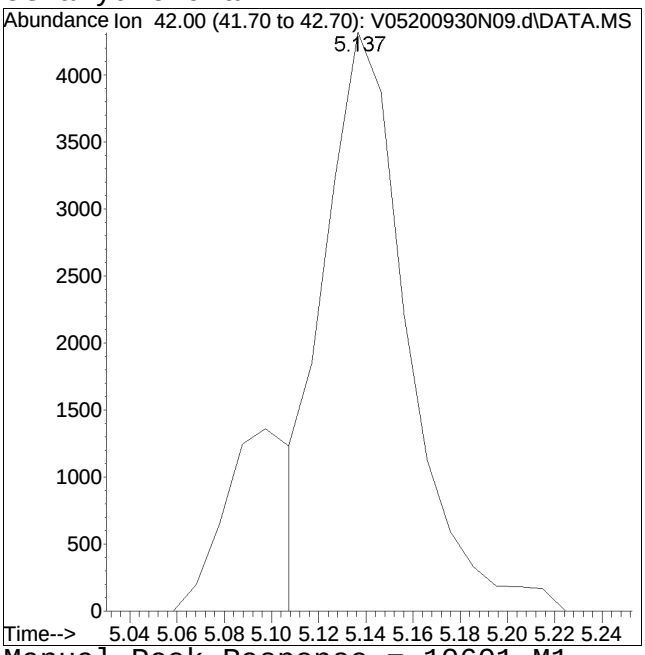
Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2020\2QMethod : V105_200930N_8260.m
Data File : V05200930N09.d Operator : VOA105:PD
Date Inj'd : 9/30/2020 6:36 pm Instrument : VOA 105
Sample : I8260STDL10PPB Quant Date : 10/1/2020 1:05 pm

Compound #35: Tetrahydrofuran



Original Peak Response = 13351



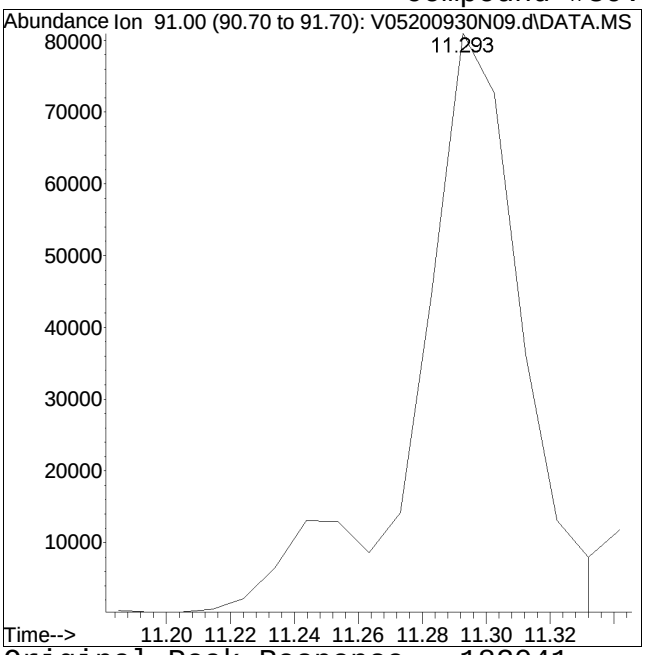
Manual Peak Response = 10601 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

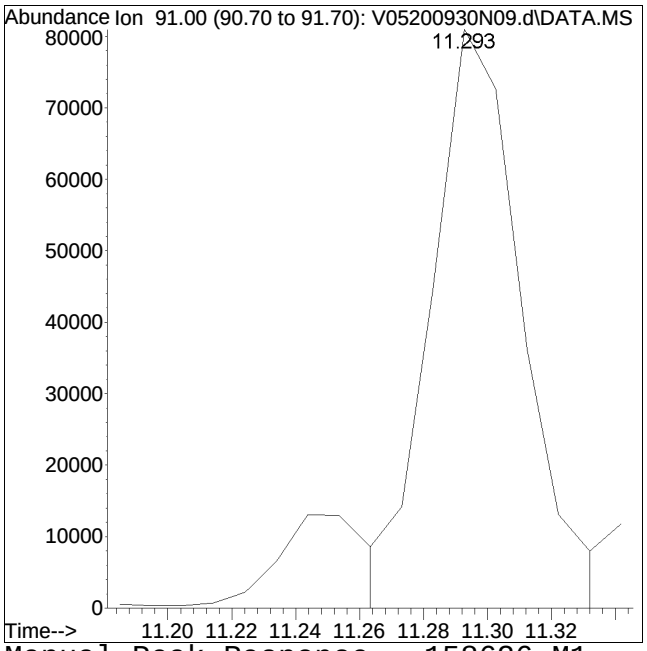
Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2020\2QMethod : V105_200930N_8260.m
Data File : V05200930N09.d Operator : VOA105:PD
Date Inj'd : 9/30/2020 6:36 pm Instrument : VOA 105
Sample : I8260STDL10PPB Quant Date : 10/1/2020 1:05 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 182041



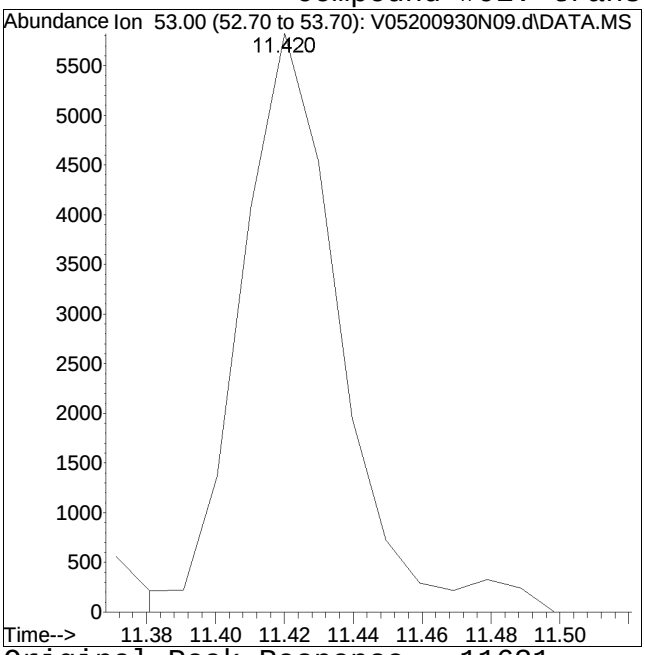
Manual Peak Response = 158626 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

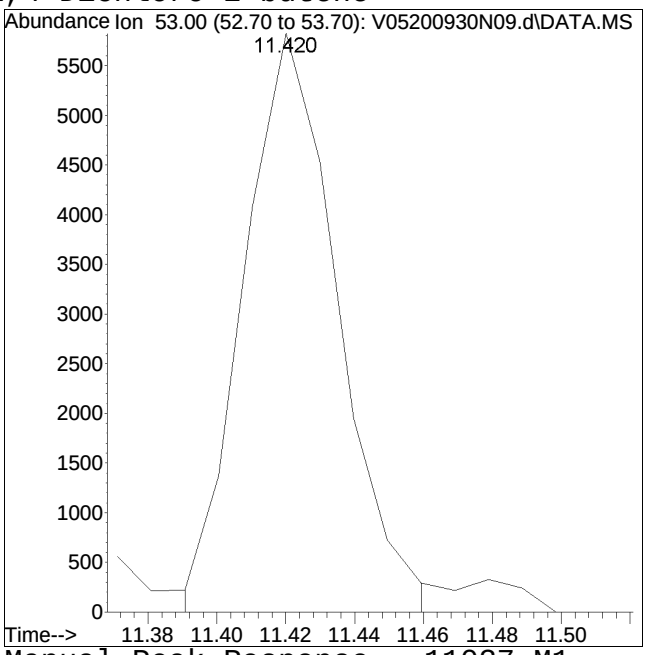
Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2020\2QMethod : V105_200930N_8260.m
Data File : V05200930N09.d Operator : VOA105:PD
Date Inj'd : 9/30/2020 6:36 pm Instrument : VOA 105
Sample : I8260STDL10PPB Quant Date : 10/1/2020 1:05 pm

Compound #92: trans-1,4-Dichloro-2-butene



Original Peak Response = 11631



Manual Peak Response = 11037 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05200930N10.d
Acq On : 30 Sep 2020 7:00 pm
Operator : VOA105:PD
Sample : I8260STDL30PPB
Misc : WG1416925,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 01 13:05:27 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\200930N\V05200930N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.958	96	252375	10.000	ug/L	0.00
Standard Area 1 = 246979			Recovery = 102.18%			
59) Chlorobenzene-d5	9.471	117	192721	10.000	ug/L	0.00
Standard Area 1 = 187941			Recovery = 102.54%			
79) 1,4-Dichlorobenzene-d4	12.184	152	105741	10.000	ug/L	0.00
Standard Area 1 = 100750			Recovery = 104.95%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.156	113	68095	9.949	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.49%			
43) 1,2-Dichloroethane-d4	5.684	65	81043	9.662	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.62%			
60) Toluene-d8	7.631	98	241416	10.116	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.16%			
83) 4-Bromofluorobenzene	10.979	95	94840	10.018	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.18%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.625	85	131316	33.968	ug/L #	96
3) Chloromethane	1.831	50	198388	32.264	ug/L	98
4) Vinyl chloride	1.889	62	203802	33.317	ug/L	99
5) Bromomethane	2.202	94	110085	31.000	ug/L	98
6) Chloroethane	2.310	64	152620	32.436	ug/L	92
7) Trichlorofluoromethane	2.437	101	340663	33.624	ug/L	100
8) Ethyl ether	2.740	74	98666	31.734	ug/L #	53
10) 1,1-Dichloroethene	2.926	96	193945	32.668	ug/L	90
11) Carbon disulfide	2.955	76	383571	32.335	ug/L	100
12) Freon-113	2.955	101	190363	33.434	ug/L	84
13) Iodomethane	3.063	142	254638	33.233	ug/L	91
14) Acrolein	3.259	56	18764	31.525	ug/L	98
15) Methylene chloride	3.484	84	175519	31.506	ug/L #	69
17) Acetone	3.533	43	37057	29.471	ug/L	98
18) trans-1,2-Dichloroethene	3.630	96	168504	32.349	ug/L	93
19) Methyl acetate	3.640	43	95257	30.206	ug/L #	80
20) Methyl tert-butyl ether	3.718	73	395234	32.008	ug/L #	85
21) tert-Butyl alcohol	3.836	59	57276	155.699	ug/L	85
22) Diisopropyl ether	4.070	45	656687	31.720	ug/L #	92
23) 1,1-Dichloroethane	4.207	63	352283	31.845	ug/L	97
24) Halothane	4.256	117	138683	32.795	ug/L	98

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05200930N10.d
Acq On : 30 Sep 2020 7:00 pm
Operator : VOA105:PD
Sample : I8260STDL30PPB
Misc : WG1416925,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 01 13:05:27 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\200930N\V05200930N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.266	53	43548	31.991	ug/L		90
26) Ethyl tert-butyl ether	4.413	59	563883	31.786	ug/L	#	81
27) Vinyl acetate	4.442	43	408292	31.502	ug/L	#	93
28) cis-1,2-Dichloroethene	4.726	96	205888	32.238	ug/L		92
29) 2,2-Dichloropropane	4.814	77	268484	32.395	ug/L	#	81
30) Bromochloromethane	4.912	128	91732	33.144	ug/L	#	76
31) Cyclohexane	4.902	56	360682	33.278	ug/L		74
32) Chloroform	4.980	83	329527	31.571	ug/L	#	93
33) Ethyl acetate	5.088	43	145355	31.548	ug/L	#	92
34) Carbon tetrachloride	5.107	117	270003	33.784	ug/L		99
35) Tetrahydrofuran	5.137	42	38482M1	31.843	ug/L		
37) 1,1,1-Trichloroethane	5.176	97	316178	32.670	ug/L		95
39) 2-Butanone	5.283	43	58994	30.068	ug/L	#	65
40) 1,1-Dichloropropene	5.293	75	255381	32.192	ug/L		96
41) Benzene	5.538	78	693089	32.209	ug/L	#	92
42) tert-Amyl methyl ether	5.645	73	429770	31.664	ug/L		96
44) 1,2-Dichloroethane	5.753	62	254358	31.543	ug/L		99
47) Methyl cyclohexane	6.105	83	334416	32.884	ug/L	#	77
48) Trichloroethene	6.134	95	198607	31.523	ug/L		96
50) Dibromomethane	6.574	93	103983	32.011	ug/L		92
51) 1,2-Dichloropropane	6.672	63	188578	31.646	ug/L	#	89
53) 2-Chloroethyl vinyl ether	7.367	63	93491	27.959	ug/L		91
54) Bromodichloromethane	6.750	83	246949	32.194	ug/L		99
57) 1,4-Dioxane	6.966	88	24076	620.343	ug/L	#	79
58) cis-1,3-Dichloropropene	7.435	75	287859	32.760	ug/L	#	82
61) Toluene	7.689	92	451046	32.399	ug/L		99
62) 4-Methyl-2-pentanone	8.129	58	48219	31.259	ug/L	#	80
63) Tetrachloroethene	8.129	166	217135	32.874	ug/L		96
65) trans-1,3-Dichloropropene	8.188	75	254173	29.446	ug/L	#	75
67) Ethyl methacrylate	8.364	69	176647	31.607	ug/L		89
68) 1,1,2-Trichloroethane	8.364	83	119525	32.474	ug/L		98
69) Chlorodibromomethane	8.579	129	187074	30.047	ug/L		98
70) 1,3-Dichloropropane	8.687	76	166463	33.174	ug/L		99
71) 1,2-Dibromoethane	8.853	107	146507	33.117	ug/L		100
72) 2-Hexanone	9.138	43	92804	32.797	ug/L		94
73) Chlorobenzene	9.500	112	500080	31.912	ug/L		92
74) Ethylbenzene	9.529	91	891776	32.160	ug/L		95
75) 1,1,1,2-Tetrachloroethane	9.578	131	186622	32.762	ug/L		98
76) p/m Xylene	9.716	106	688917	63.383	ug/L		89
77) o Xylene	10.254	106	624166	63.365	ug/L		88

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05200930N10.d
Acq On : 30 Sep 2020 7:00 pm
Operator : VOA105:PD
Sample : I8260STDL30PPB
Misc : WG1416925,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 01 13:05:27 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\200930N\V05200930N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	10.323	104	1069740	65.629	ug/L	92
80) Bromoform	10.362	173	112399	31.198	ug/L	98
82) Isopropylbenzene	10.636	105	902414	32.272	ug/L	94
84) Bromobenzene	11.087	156	216124	31.735	ug/L	100
85) n-Propylbenzene	11.126	91	1079296	32.512	ug/L	96
86) 1,4-Dichlorobutane	11.156	55	247061	32.023	ug/L	96
87) 1,1,2,2-Tetrachloroethane	11.234	83	160045	32.465	ug/L	97
88) 4-Ethyltoluene	11.254	105	854282	33.039	ug/L	96
89) 2-Chlorotoluene	11.293	91	597376M1	31.927	ug/L	
90) 1,3,5-Trimethylbenzene	11.351	105	749472	32.453	ug/L	93
91) 1,2,3-Trichloropropane	11.361	75	133323M1	32.246	ug/L	
92) trans-1,4-Dichloro-2-b...	11.420	53	46950M1	32.083	ug/L	
93) 4-Chlorotoluene	11.479	91	611754	31.580	ug/L	91
94) tert-Butylbenzene	11.694	119	660044	32.253	ug/L	95
97) 1,2,4-Trimethylbenzene	11.773	105	712503	32.295	ug/L	93
98) sec-Butylbenzene	11.880	105	894571	32.371	ug/L	97
99) p-Isopropyltoluene	12.037	119	831900	32.694	ug/L	96
100) 1,3-Dichlorobenzene	12.106	146	392407	31.463	ug/L	98
101) 1,4-Dichlorobenzene	12.204	146	398435	31.735	ug/L	97
102) p-Diethylbenzene	12.409	119	457831	32.617	ug/L	97
103) n-Butylbenzene	12.468	91	718228	32.771	ug/L	97
104) 1,2-Dichlorobenzene	12.625	146	353581	31.939	ug/L	97
105) 1,2,4,5-Tetramethylben...	13.203	119	648130	32.594	ug/L	95
106) 1,2-Dibromo-3-chloropr...	13.409	155	22693	31.194	ug/L	99
107) 1,3,5-Trichlorobenzene	13.438	180	252079	31.714	ug/L	98
108) Hexachlorobutadiene	14.006	225	98837	31.486	ug/L	99
109) 1,2,4-Trichlorobenzene	14.036	180	216772	31.769	ug/L	99
110) Naphthalene	14.329	128	416491	31.815	ug/L	100
111) 1,2,3-Trichlorobenzene	14.496	180	173130	31.261	ug/L	98

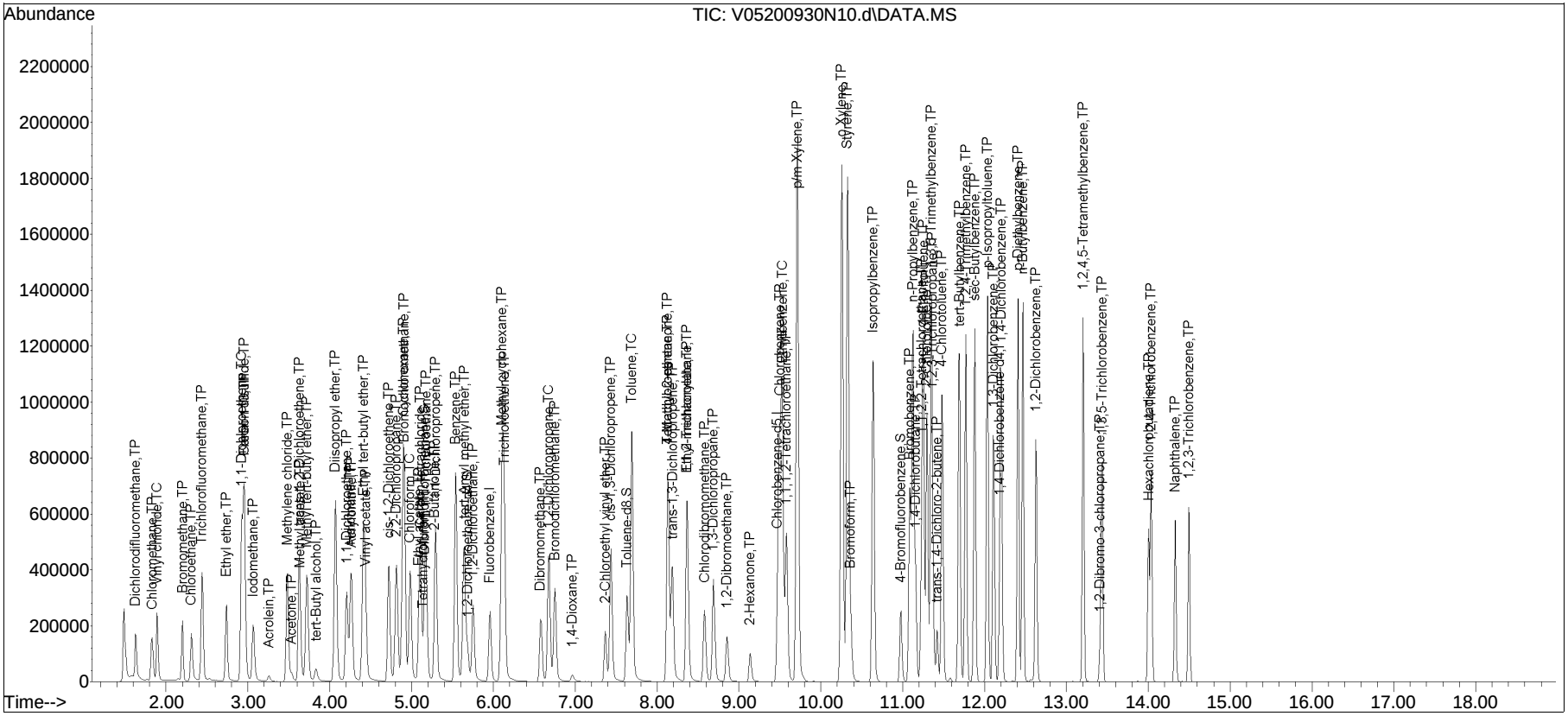
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Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05200930N10.d
Acq On : 30 Sep 2020 7:00 pm
Operator : VOA105:PD
Sample : I8260STDL30PPB
Misc : WG1416925,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 01 13:05:27 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

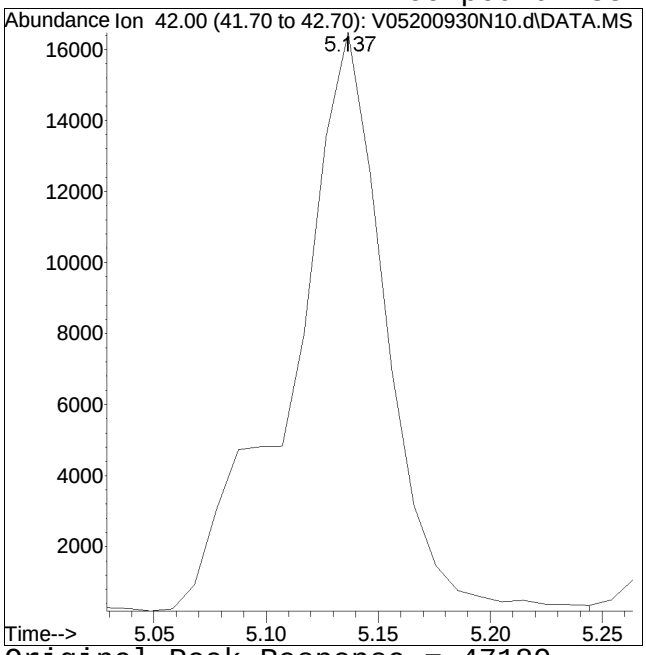
Sub List : 8260-Curve - Megamix plus Diox00930N\V05200930N09.d•

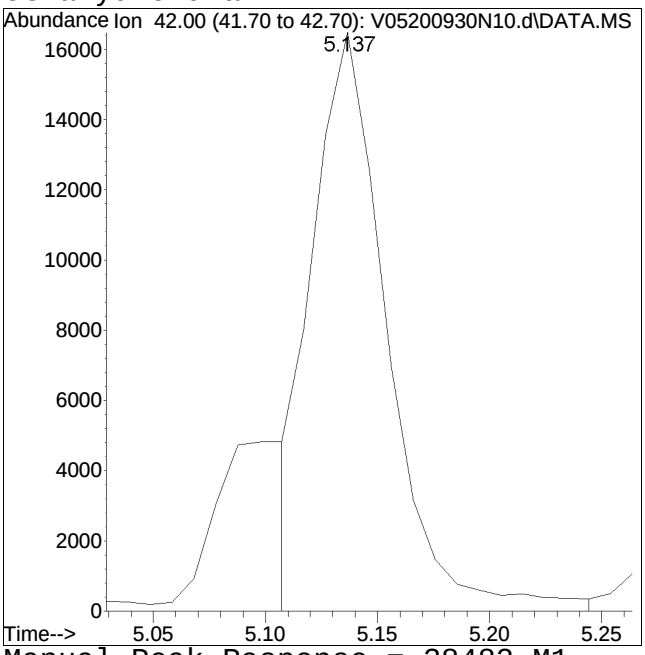


Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2020\2QMethod : V105_200930N_8260.m
Data File : V05200930N10.d Operator : VOA105:PD
Date Inj'd : 9/30/2020 7:00 pm Instrument : VOA 105
Sample : I8260STDL30PPB Quant Date : 10/1/2020 1:05 pm

Compound #35: Tetrahydrofuran



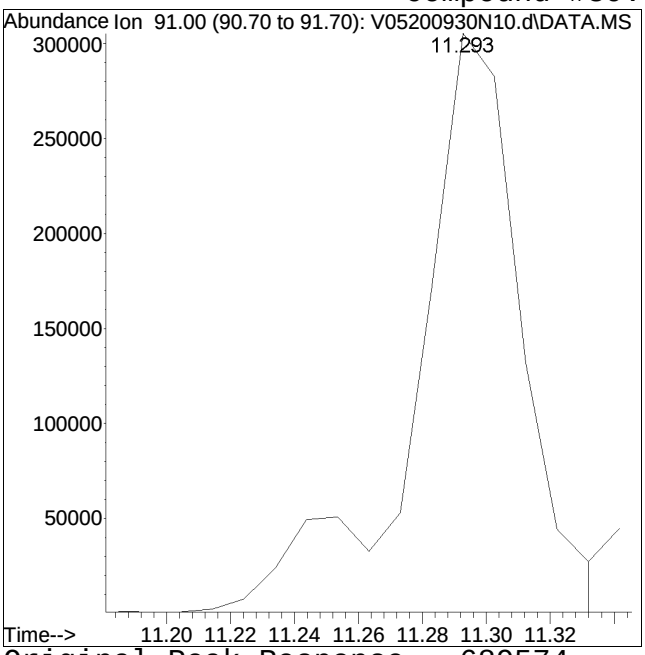


Original Peak Response = 47189 Manual Peak Response = 38482 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

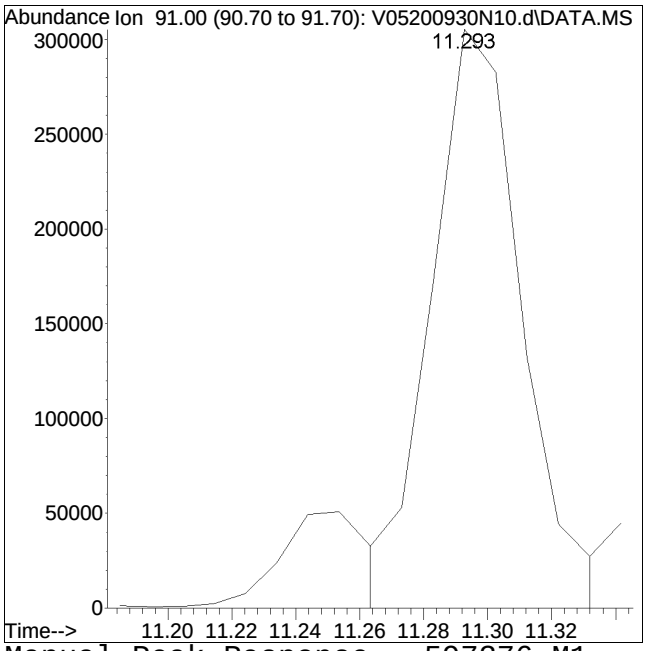
Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2020\2QMethod : V105_200930N_8260.m
Data File : V05200930N10.d Operator : VOA105:PD
Date Inj'd : 9/30/2020 7:00 pm Instrument : VOA 105
Sample : I8260STDL30PPB Quant Date : 10/1/2020 1:05 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 689574



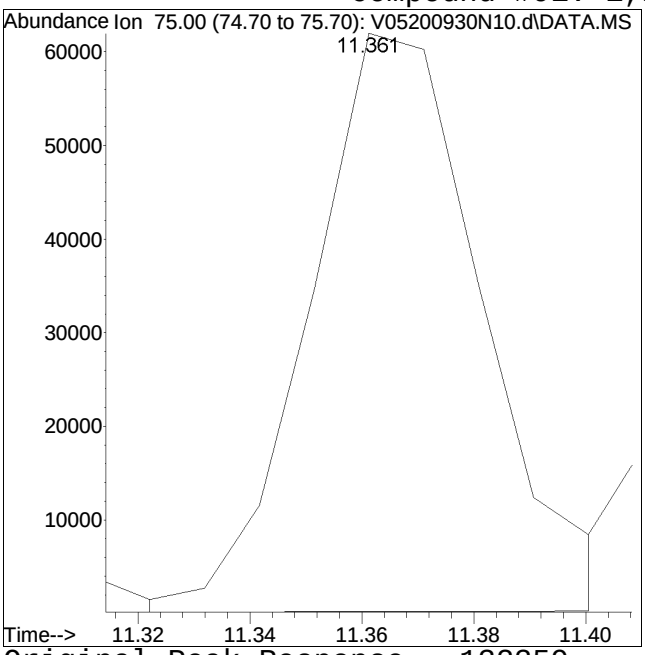
Manual Peak Response = 597376 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

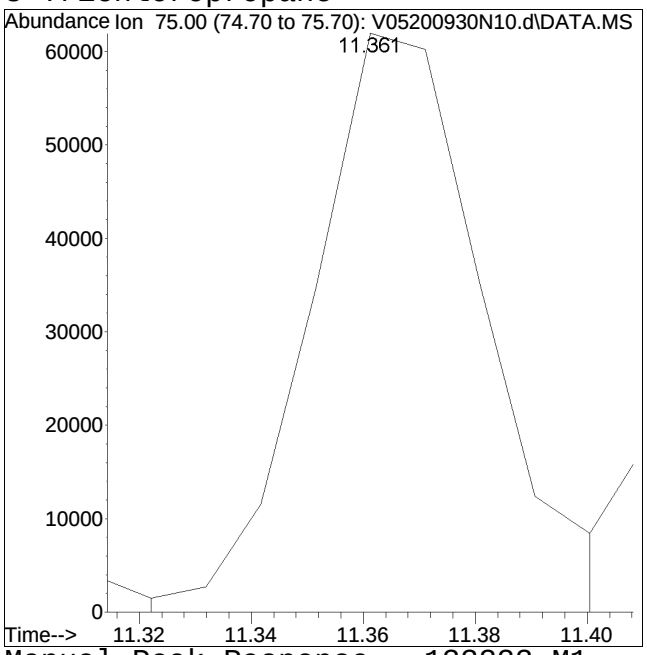
Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2020\2QMethod : V105_200930N_8260.m
Data File : V05200930N10.d Operator : VOA105:PD
Date Inj'd : 9/30/2020 7:00 pm Instrument : VOA 105
Sample : I8260STDL30PPB Quant Date : 10/1/2020 1:05 pm

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 132359



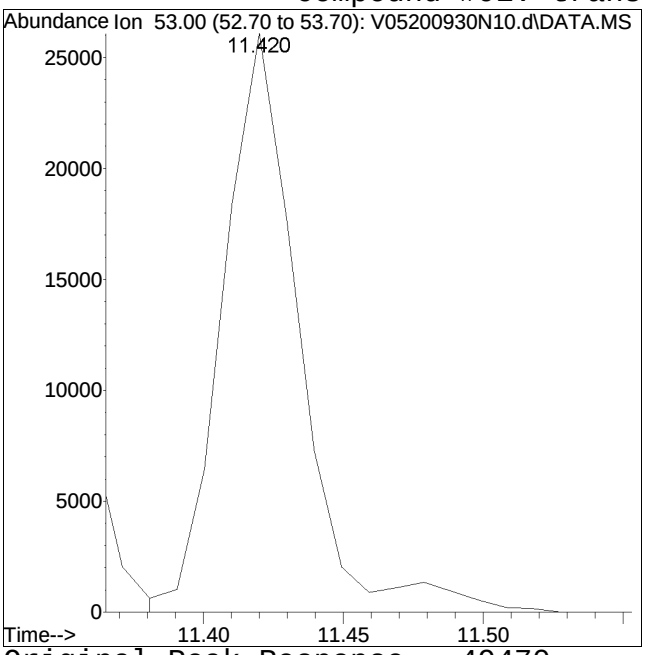
Manual Peak Response = 133323 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

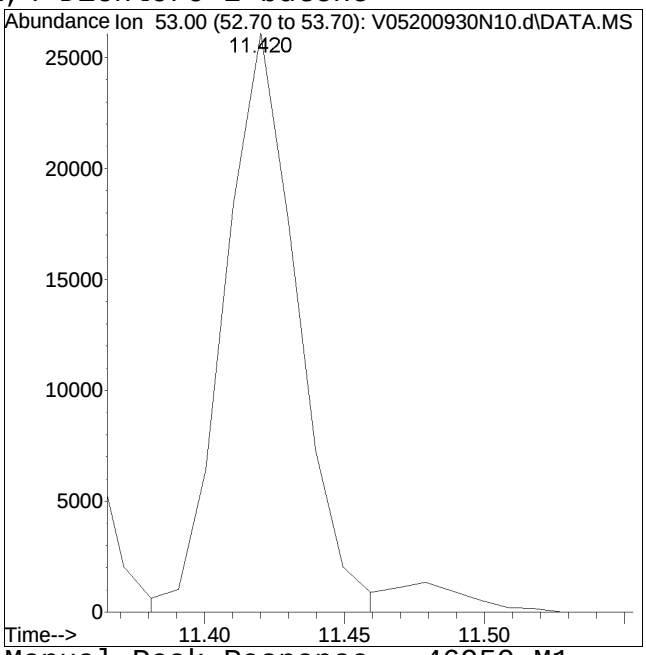
Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2020\2QMethod : V105_200930N_8260.m
Data File : V05200930N10.d Operator : VOA105:PD
Date Inj'd : 9/30/2020 7:00 pm Instrument : VOA 105
Sample : I8260STDL30PPB Quant Date : 10/1/2020 1:05 pm

Compound #92: trans-1,4-Dichloro-2-butene



Original Peak Response = 49470



Manual Peak Response = 46950 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05200930N11.d
Acq On : 30 Sep 2020 7:23 pm
Operator : VOA105:PD
Sample : I8260STDL80PPB
Misc : WG1416925,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 01 13:05:34 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\200930N\V05200930N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.958	96	256390	10.000	ug/L	0.00
Standard Area 1 = 246979			Recovery = 103.81%			
59) Chlorobenzene-d5	9.481	117	201121	10.000	ug/L	0.00
Standard Area 1 = 187941			Recovery = 107.01%			
79) 1,4-Dichlorobenzene-d4	12.194	152	110759	10.000	ug/L	0.00
Standard Area 1 = 100750			Recovery = 109.93%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.156	113	68784	9.893	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.93%			
43) 1,2-Dichloroethane-d4	5.684	65	83987	9.856	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.56%			
60) Toluene-d8	7.631	98	249319	10.011	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.11%			
83) 4-Bromofluorobenzene	10.979	95	99502	10.034	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.34%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.625	85	351246	89.436	ug/L #	96
3) Chloromethane	1.831	50	530666	84.951	ug/L	99
4) Vinyl chloride	1.889	62	558147	89.814	ug/L	97
5) Bromomethane	2.202	94	348117	80.959	ug/L	98
6) Chloroethane	2.310	64	340466	80.173	ug/L	94
7) Trichlorofluoromethane	2.437	101	901508	87.586	ug/L	100
8) Ethyl ether	2.740	74	267621	84.728	ug/L #	54
10) 1,1-Dichloroethene	2.926	96	521285	86.431	ug/L	89
11) Carbon disulfide	2.956	76	1125265	93.373	ug/L	100
12) Freon-113	2.956	101	526368	90.999	ug/L	89
13) Iodomethane	3.063	142	685193	88.026	ug/L	92
14) Acrolein	3.259	56	52556	86.916	ug/L	99
15) Methylene chloride	3.484	84	475755	84.063	ug/L #	69
17) Acetone	3.533	43	100149	78.400	ug/L	99
18) trans-1,2-Dichloroethene	3.621	96	462821	87.460	ug/L	94
19) Methyl acetate	3.640	43	263344	82.200	ug/L #	80
20) Methyl tert-butyl ether	3.718	73	1074359	85.644	ug/L #	86
21) tert-Butyl alcohol	3.836	59	162831	435.709	ug/L	86
22) Diisopropyl ether	4.071	45	1798088	85.493	ug/L #	92
23) 1,1-Dichloroethane	4.207	63	957650	85.212	ug/L	97
24) Halothane	4.256	117	379227	88.272	ug/L	98

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05200930N11.d
Acq On : 30 Sep 2020 7:23 pm
Operator : VOA105:PD
Sample : I8260STDL80PPB
Misc : WG1416925,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 01 13:05:34 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\200930N\V05200930N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.266	53	120484	87.123	ug/L	#	90
26) Ethyl tert-butyl ether	4.413	59	1557376	86.413	ug/L	#	80
27) Vinyl acetate	4.432	43	1143958	86.880	ug/L	#	93
28) cis-1,2-Dichloroethene	4.716	96	551743	85.039	ug/L		91
29) 2,2-Dichloropropane	4.814	77	730079	86.712	ug/L	#	81
30) Bromochloromethane	4.912	128	246112	87.530	ug/L	#	73
31) Cyclohexane	4.902	56	982518	89.231	ug/L		74
32) Chloroform	4.980	83	898156	84.703	ug/L	#	92
33) Ethyl acetate	5.088	43	402854	86.066	ug/L	#	92
34) Carbon tetrachloride	5.107	117	751885	92.605	ug/L		99
35) Tetrahydrofuran	5.137	42	102883M1	83.801	ug/L		
37) 1,1,1-Trichloroethane	5.176	97	857258	87.191	ug/L		94
39) 2-Butanone	5.283	43	161274	80.910	ug/L	#	65
40) 1,1-Dichloropropene	5.293	75	694903	86.225	ug/L		96
41) Benzene	5.538	78	1888575	86.392	ug/L	#	92
42) tert-Amyl methyl ether	5.645	73	1196689	86.788	ug/L		95
44) 1,2-Dichloroethane	5.753	62	686368	83.785	ug/L		99
47) Methyl cyclohexane	6.105	83	931286	90.143	ug/L	#	77
48) Trichloroethene	6.134	95	552769	86.363	ug/L		96
50) Dibromomethane	6.574	93	286481	86.812	ug/L		92
51) 1,2-Dichloropropane	6.672	63	524097	86.574	ug/L	#	89
53) 2-Chloroethyl vinyl ether	7.367	63	271756	76.832	ug/L		92
54) Bromodichloromethane	6.751	83	695540	89.255	ug/L		99
57) 1,4-Dioxane	6.966	88	34596	877.443	ug/L	#	80
58) cis-1,3-Dichloropropene	7.435	75	803664	90.030	ug/L	#	81
61) Toluene	7.689	92	1235469	85.038	ug/L		99
62) 4-Methyl-2-pentanone	8.130	58	140543	87.303	ug/L	#	83
63) Tetrachloroethene	8.130	166	596787	86.579	ug/L		96
65) trans-1,3-Dichloropropene	8.188	75	722835	79.619	ug/L	#	75
67) Ethyl methacrylate	8.364	69	505920	86.742	ug/L		88
68) 1,1,2-Trichloroethane	8.374	83	335156	87.255	ug/L		97
69) Chlorodibromomethane	8.580	129	528401	80.167	ug/L		99
70) 1,3-Dichloropropane	8.687	76	449157	85.772	ug/L		100
71) 1,2-Dibromoethane	8.854	107	404648	87.649	ug/L		99
72) 2-Hexanone	9.138	43	265969	90.067	ug/L		94
73) Chlorobenzene	9.500	112	1401804	85.719	ug/L		93
74) Ethylbenzene	9.530	91	2504806	86.558	ug/L		95
75) 1,1,1,2-Tetrachloroethane	9.579	131	526624	88.590	ug/L		97
76) p/m Xylene	9.716	106	1976102	174.215	ug/L		88
77) o Xylene	10.254	106	1799653	175.069	ug/L		88

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05200930N11.d
Acq On : 30 Sep 2020 7:23 pm
Operator : VOA105:PD
Sample : I8260STDL80PPB
Misc : WG1416925,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 01 13:05:34 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\200930N\V05200930N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	10.333	104	3088664	181.578	ug/L	92
80) Bromoform	10.362	173	335691	81.743	ug/L	96
82) Isopropylbenzene	10.636	105	2574786	87.909	ug/L	95
84) Bromobenzene	11.087	156	606884	85.077	ug/L	100
85) n-Propylbenzene	11.126	91	3042546	87.500	ug/L	95
86) 1,4-Dichlorobutane	11.156	55	697372	86.294	ug/L	96
87) 1,1,2,2-Tetrachloroethane	11.234	83	452332	87.599	ug/L	99
88) 4-Ethyltoluene	11.254	105	2372943	87.614	ug/L	95
89) 2-Chlorotoluene	11.303	91	1685583M1	86.005	ug/L	
90) 1,3,5-Trimethylbenzene	11.352	105	2098269	86.741	ug/L	93
91) 1,2,3-Trichloropropane	11.371	75	374282M1	86.424	ug/L	
92) trans-1,4-Dichloro-2-b...	11.420	53	137447M1	89.669	ug/L	
93) 4-Chlorotoluene	11.479	91	1736334	85.573	ug/L	92
94) tert-Butylbenzene	11.694	119	1852251	86.409	ug/L	94
97) 1,2,4-Trimethylbenzene	11.773	105	2016158	87.245	ug/L	93
98) sec-Butylbenzene	11.881	105	2534998	87.576	ug/L	97
99) p-Isopropyltoluene	12.037	119	2357559	88.455	ug/L	96
100) 1,3-Dichlorobenzene	12.116	146	1116810	85.489	ug/L	98
101) 1,4-Dichlorobenzene	12.204	146	1111646	84.531	ug/L	97
102) p-Diethylbenzene	12.410	119	1319749	89.763	ug/L	97
103) n-Butylbenzene	12.468	91	2013907	87.726	ug/L	98
104) 1,2-Dichlorobenzene	12.625	146	992815	85.617	ug/L	97
105) 1,2,4,5-Tetramethylben...	13.203	119	1864120	89.499	ug/L	94
106) 1,2-Dibromo-3-chloropr...	13.409	155	67611	81.404	ug/L	96
107) 1,3,5-Trichlorobenzene	13.438	180	719681	86.440	ug/L	99
108) Hexachlorobutadiene	14.006	225	284791	86.613	ug/L	99
109) 1,2,4-Trichlorobenzene	14.036	180	613075	85.778	ug/L	99
110) Naphthalene	14.330	128	1171760	85.453	ug/L	100
111) 1,2,3-Trichlorobenzene	14.496	180	491045	84.647	ug/L	99

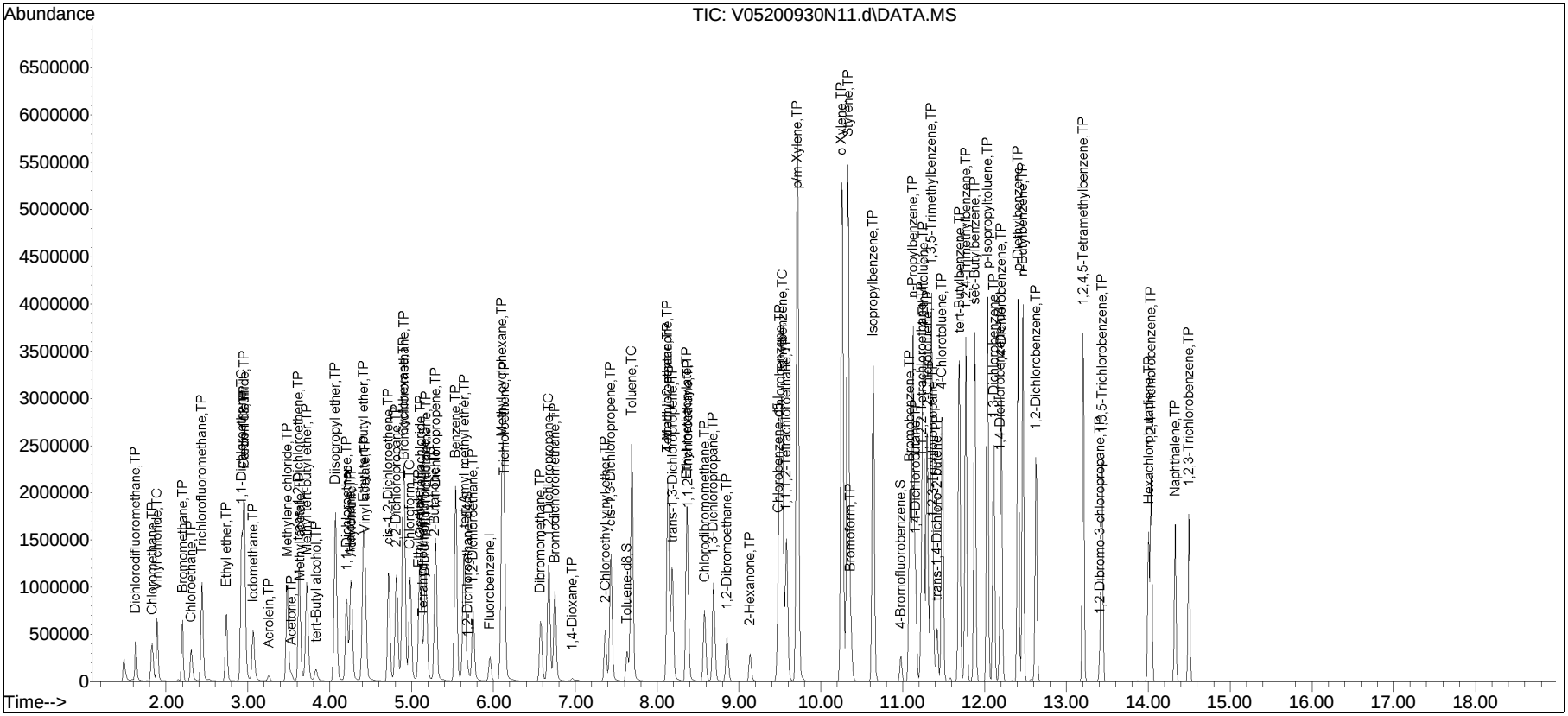
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05200930N11.d
Acq On : 30 Sep 2020 7:23 pm
Operator : VOA105:PD
Sample : I8260STDL80PPB
Misc : WG1416925,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 01 13:05:34 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

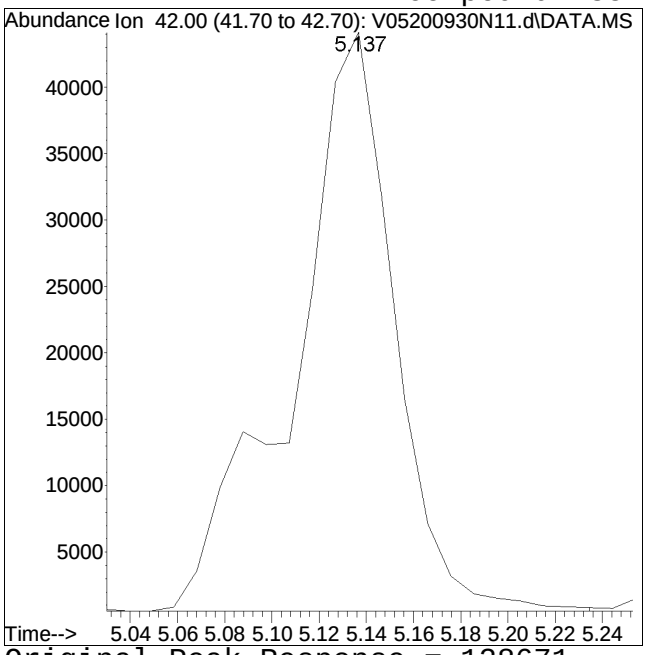
Sub List : 8260-Curve - Megamix plus Diox00930N\V05200930N09.d•

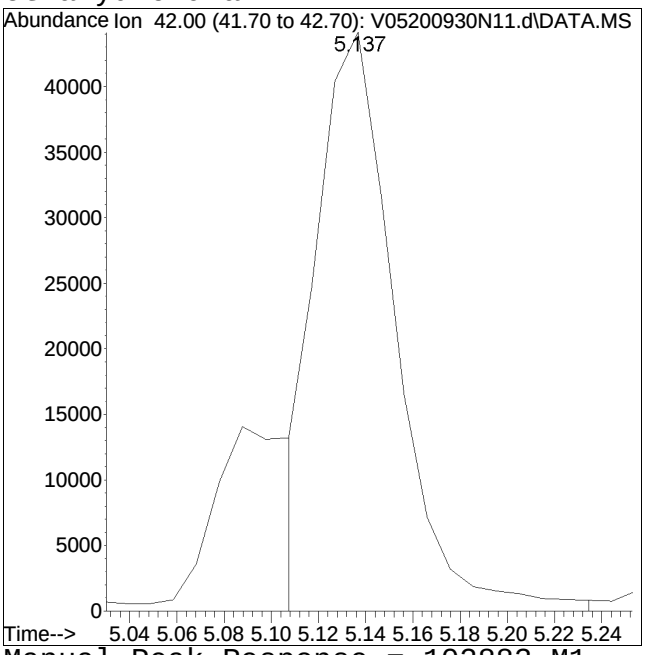


Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2020\2QMethod : V105_200930N_8260.m
Data File : V05200930N11.d Operator : VOA105:PD
Date Inj'd : 9/30/2020 7:23 pm Instrument : VOA 105
Sample : I8260STDL80PPB Quant Date : 10/1/2020 1:05 pm

Compound #35: Tetrahydrofuran





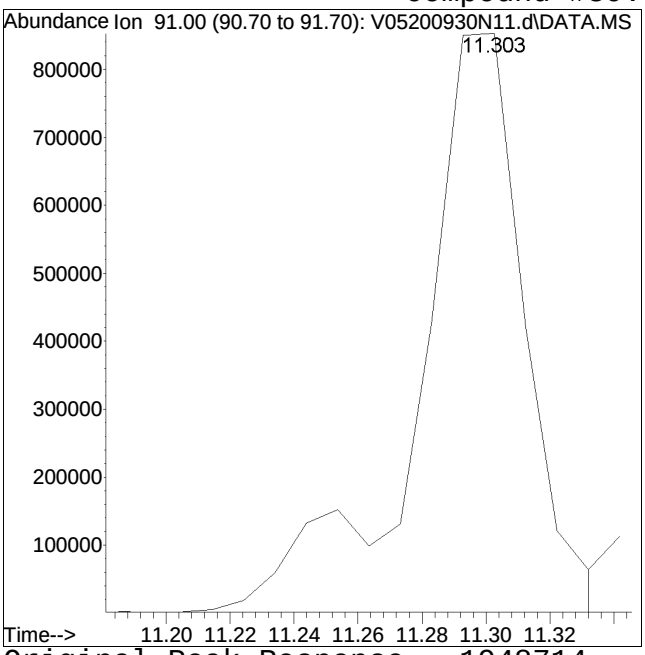
Original Peak Response = 128671 Manual Peak Response = 102883 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

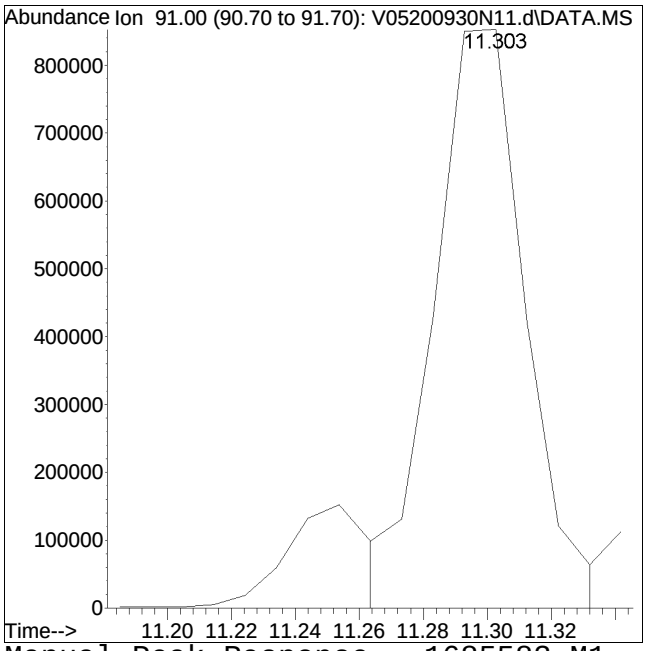
Data Path : I:\VOLATILES\VOA105\2020\2Q
Data File : V05200930N11.d
Date Inj'd : 9/30/2020 7:23 pm
Sample : I8260STDL80PPB

Method : V105_200930N_8260.m
Operator : VOA105:PD
Instrument : VOA 105
Quant Date : 10/1/2020 1:05 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 1948714



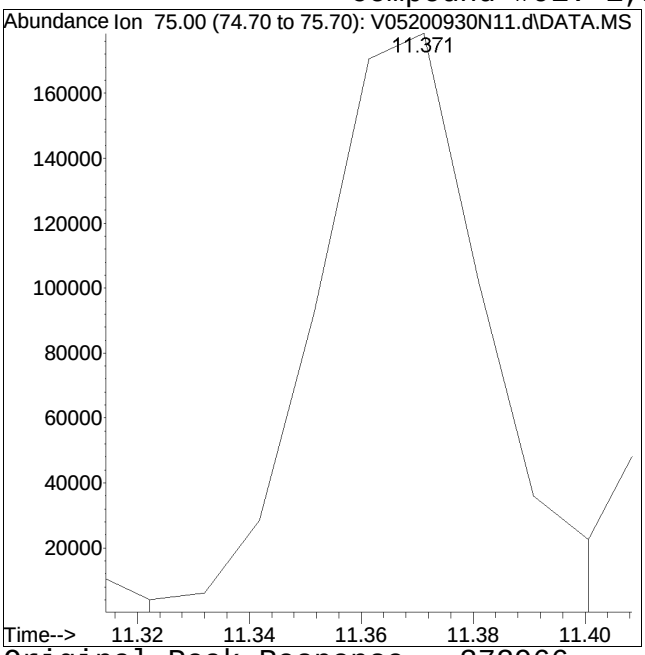
Manual Peak Response = 1685583 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

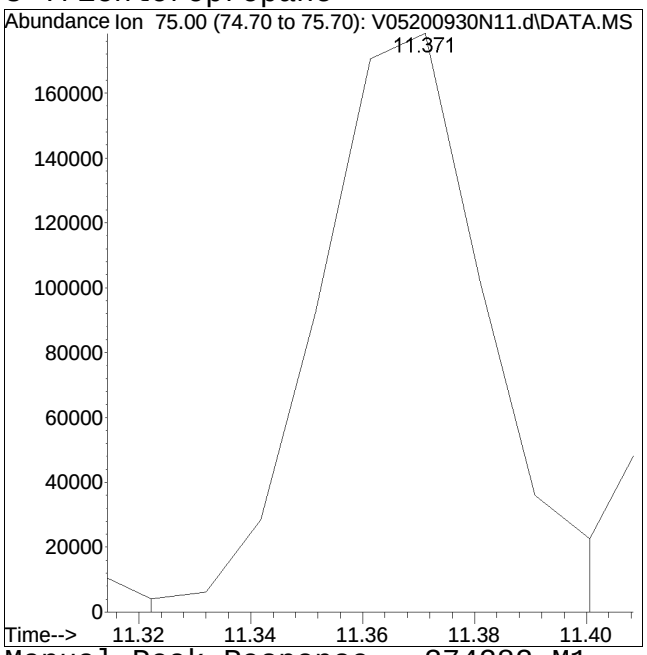
Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2020\2QMethod : V105_200930N_8260.m
Data File : V05200930N11.d Operator : VOA105:PD
Date Inj'd : 9/30/2020 7:23 pm Instrument : VOA 105
Sample : I8260STDL80PPB Quant Date : 10/1/2020 1:05 pm

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 372966



Manual Peak Response = 374282 M1

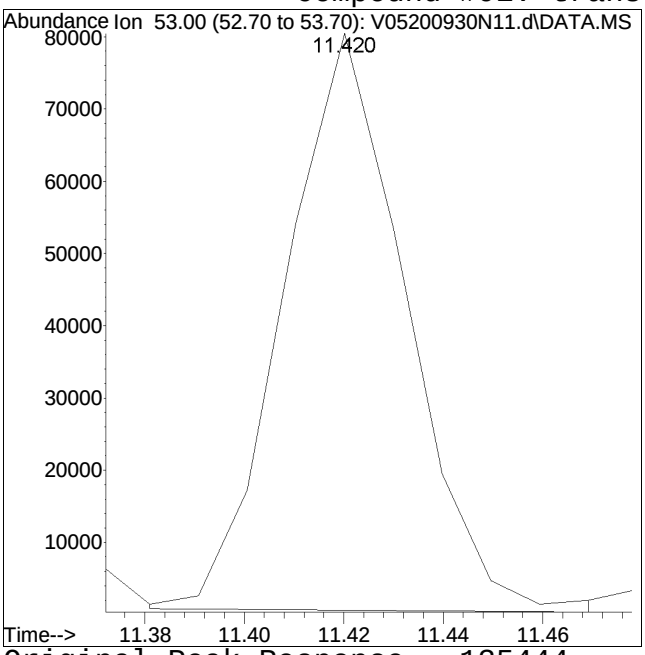
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

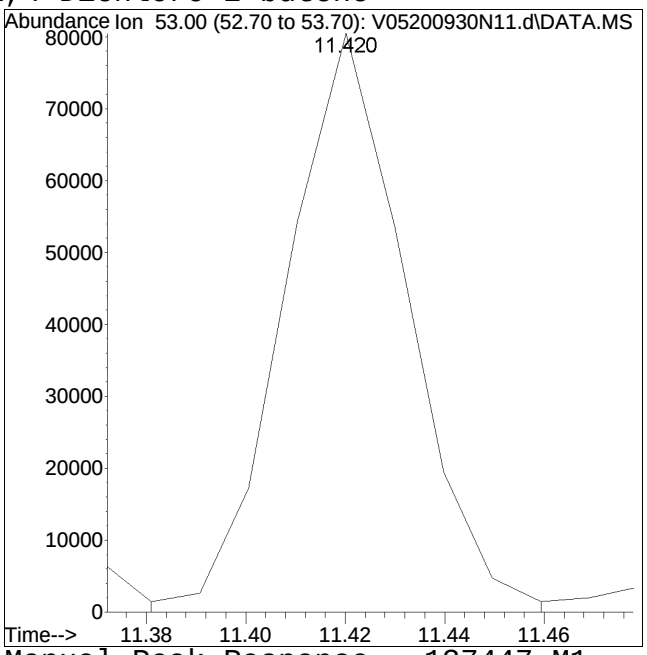
Data Path : I:\VOLATILES\VOA105\2020\2Q
Data File : V05200930N11.d
Date Inj'd : 9/30/2020 7:23 pm
Sample : I8260STDL80PPB

Method : V105_200930N_8260.m
Operator : VOA105:PD
Instrument : VOA 105
Quant Date : 10/1/2020 1:05 pm

Compound #92: trans-1,4-Dichloro-2-butene



Original Peak Response = 135444



Manual Peak Response = 137447 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05200930N12.d
Acq On : 30 Sep 2020 7:46 pm
Operator : VOA105:PD
Sample : I8260STDL120PPB
Misc : WG1416925,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 01 13:05:41 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\200930N\V05200930N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.958	96	258654	10.000	ug/L	0.00
Standard Area 1 = 246979			Recovery = 104.73%			
59) Chlorobenzene-d5	9.480	117	208896	10.000	ug/L	0.00
Standard Area 1 = 187941			Recovery = 111.15%			
79) 1,4-Dichlorobenzene-d4	12.194	152	116007	10.000	ug/L	0.00
Standard Area 1 = 100750			Recovery = 115.14%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.166	113	70960	10.116	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.16%			
43) 1,2-Dichloroethane-d4	5.684	65	86362	10.046	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.46%			
60) Toluene-d8	7.631	98	252815	9.774	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.74%			
83) 4-Bromofluorobenzene	10.979	95	100720	9.697	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.97%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.625	85	535294	135.107	ug/L #	96
3) Chloromethane	1.831	50	818734	129.919	ug/L	99
4) Vinyl chloride	1.889	62	863212	137.688	ug/L	97
5) Bromomethane	2.202	94	581387	119.382	ug/L	99
6) Chloroethane	2.310	64	447175	114.408	ug/L	95
7) Trichlorofluoromethane	2.437	101	1378032	132.711	ug/L	100
8) Ethyl ether	2.740	74	421856	132.389	ug/L #	55
10) 1,1-Dichloroethene	2.926	96	802127	131.831	ug/L	90
11) Carbon disulfide	2.955	76	1632068	134.242	ug/L	100
12) Freon-113	2.955	101	769934	131.942	ug/L	88
13) Iodomethane	3.063	142	1042749	132.788	ug/L	91
14) Acrolein	3.259	56	82801	135.736	ug/L	98
15) Methylene chloride	3.483	84	742659	130.074	ug/L #	69
17) Acetone	3.532	43	153151	118.843	ug/L	100
18) trans-1,2-Dichloroethene	3.620	96	717866	134.469	ug/L	93
19) Methyl acetate	3.640	43	408015	126.242	ug/L #	80
20) Methyl tert-butyl ether	3.718	73	1695738	133.994	ug/L #	86
21) tert-Butyl alcohol	3.836	59	256363	679.980	ug/L	85
22) Diisopropyl ether	4.070	45	2823336	133.065	ug/L #	92
23) 1,1-Dichloroethane	4.207	63	1497989	132.124	ug/L	97
24) Halothane	4.256	117	593419	136.920	ug/L	98

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05200930N12.d
Acq On : 30 Sep 2020 7:46 pm
Operator : VOA105:PD
Sample : I8260STDL120PPB
Misc : WG1416925,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 01 13:05:41 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\200930N\V05200930N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.266	53	187393	134.319	ug/L	#	90
26) Ethyl tert-butyl ether	4.413	59	2472596	135.995	ug/L	#	81
27) Vinyl acetate	4.432	43	1809902	136.253	ug/L	#	93
28) cis-1,2-Dichloroethene	4.726	96	856419	130.843	ug/L		90
29) 2,2-Dichloropropane	4.814	77	1144057	134.691	ug/L	#	82
30) Bromochloromethane	4.911	128	381182	134.381	ug/L	#	74
31) Cyclohexane	4.902	56	1528400	137.592	ug/L		74
32) Chloroform	4.980	83	1403020	131.157	ug/L	#	93
33) Ethyl acetate	5.088	43	629847	133.383	ug/L	#	93
34) Carbon tetrachloride	5.107	117	1180381	144.108	ug/L		99
35) Tetrahydrofuran	5.136	42	158811M1	128.223	ug/L		
37) 1,1,1-Trichloroethane	5.176	97	1332776	134.369	ug/L		94
39) 2-Butanone	5.283	43	255364	126.993	ug/L	#	64
40) 1,1-Dichloropropene	5.293	75	1094769	134.652	ug/L		96
41) Benzene	5.537	78	2961948	134.307	ug/L	#	92
42) tert-Amyl methyl ether	5.645	73	1909563	137.276	ug/L		94
44) 1,2-Dichloroethane	5.753	62	1078431	130.492	ug/L		99
47) Methyl cyclohexane	6.105	83	1443840	138.532	ug/L	#	77
48) Trichloroethene	6.134	95	869845	134.713	ug/L		96
50) Dibromomethane	6.574	93	461086	138.500	ug/L		93
51) 1,2-Dichloropropane	6.672	63	826288	135.297	ug/L	#	89
53) 2-Chloroethyl vinyl ether	7.366	63	447760	124.407	ug/L		92
54) Bromodichloromethane	6.750	83	1118775	142.309	ug/L		98
57) 1,4-Dioxane	6.965	88	52013	1307.636	ug/L	#	81
58) cis-1,3-Dichloropropene	7.435	75	1287430	142.961	ug/L	#	81
61) Toluene	7.689	92	1967585	130.390	ug/L		100
62) 4-Methyl-2-pentanone	8.129	58	224222	134.100	ug/L	#	84
63) Tetrachloroethene	8.129	166	937304	130.918	ug/L		96
65) trans-1,3-Dichloropropene	8.188	75	1160993	122.923	ug/L	#	76
67) Ethyl methacrylate	8.364	69	815549	134.625	ug/L		88
68) 1,1,2-Trichloroethane	8.374	83	534085	133.870	ug/L		97
69) Chlorodibromomethane	8.579	129	855558	124.058	ug/L		98
70) 1,3-Dichloropropane	8.687	76	694782	127.739	ug/L		100
71) 1,2-Dibromoethane	8.853	107	638567	133.169	ug/L		100
72) 2-Hexanone	9.137	43	418804	136.544	ug/L		94
73) Chlorobenzene	9.500	112	2239477	131.845	ug/L		93
74) Ethylbenzene	9.529	91	3980574	132.436	ug/L		95
75) 1,1,1,2-Tetrachloroethane	9.578	131	843549	136.622	ug/L		98
76) p/m Xylene	9.715	106	3181354	270.031	ug/L		88
77) o Xylene	10.264	106	2914640	272.981	ug/L		87

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05200930N12.d
Acq On : 30 Sep 2020 7:46 pm
Operator : VOA105:PD
Sample : I8260STDL120PPB
Misc : WG1416925,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 01 13:05:41 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\200930N\V05200930N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	10.333	104	5002798	283.160	ug/L	93
80) Bromoform	10.362	173	540013	118.822	ug/L	98
82) Isopropylbenzene	10.636	105	4022102	131.111	ug/L	94
84) Bromobenzene	11.087	156	978778	131.004	ug/L	99
85) n-Propylbenzene	11.126	91	4787163	131.445	ug/L	96
86) 1,4-Dichlorobutane	11.155	55	1105128	130.564	ug/L	96
87) 1,1,2,2-Tetrachloroethane	11.234	83	717505	132.667	ug/L	99
88) 4-Ethyltoluene	11.253	105	3763147	132.658	ug/L	95
89) 2-Chlorotoluene	11.302	91	2661288M1	129.646	ug/L	
90) 1,3,5-Trimethylbenzene	11.351	105	3334896	131.625	ug/L	92
91) 1,2,3-Trichloropropane	11.371	75	596888M1	131.591	ug/L	
92) trans-1,4-Dichloro-2-b...	11.420	53	221086M1	137.709	ug/L	
93) 4-Chlorotoluene	11.489	91	2759480	129.846	ug/L	93
94) tert-Butylbenzene	11.694	119	2920625	130.086	ug/L	93
97) 1,2,4-Trimethylbenzene	11.773	105	3231267	133.500	ug/L	93
98) sec-Butylbenzene	11.880	105	3964206	130.756	ug/L	96
99) p-Isopropyltoluene	12.037	119	3698725	132.498	ug/L	96
100) 1,3-Dichlorobenzene	12.115	146	1779068	130.023	ug/L	98
101) 1,4-Dichlorobenzene	12.204	146	1768184	128.372	ug/L	97
102) p-Diethylbenzene	12.409	119	2070991	134.487	ug/L	98
103) n-Butylbenzene	12.468	91	3189092	132.633	ug/L	98
104) 1,2-Dichlorobenzene	12.635	146	1585267	130.523	ug/L	97
105) 1,2,4,5-Tetramethylben...	13.203	119	2985722	136.863	ug/L	94
106) 1,2-Dibromo-3-chloropr...	13.409	155	109654	119.021	ug/L	98
107) 1,3,5-Trichlorobenzene	13.438	180	1138800	130.591	ug/L	99
108) Hexachlorobutadiene	14.006	225	438406	127.301	ug/L	100
109) 1,2,4-Trichlorobenzene	14.035	180	973551	130.052	ug/L	99
110) Naphthalene	14.329	128	1874835	130.541	ug/L	100
111) 1,2,3-Trichlorobenzene	14.496	180	779008	128.212	ug/L	99

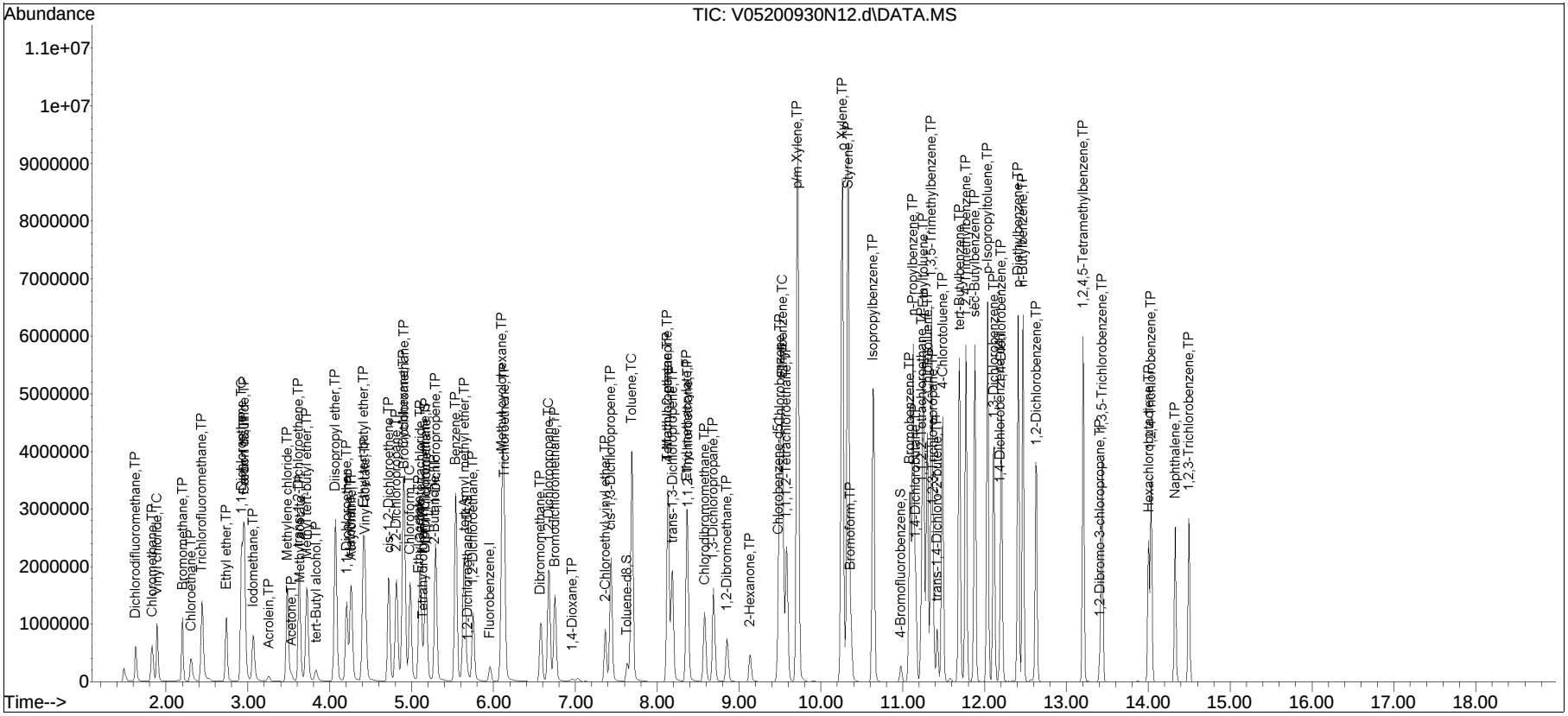
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05200930N12.d
Acq On : 30 Sep 2020 7:46 pm
Operator : VOA105:PD
Sample : I8260STDL120PPB
Misc : WG1416925,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 01 13:05:41 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

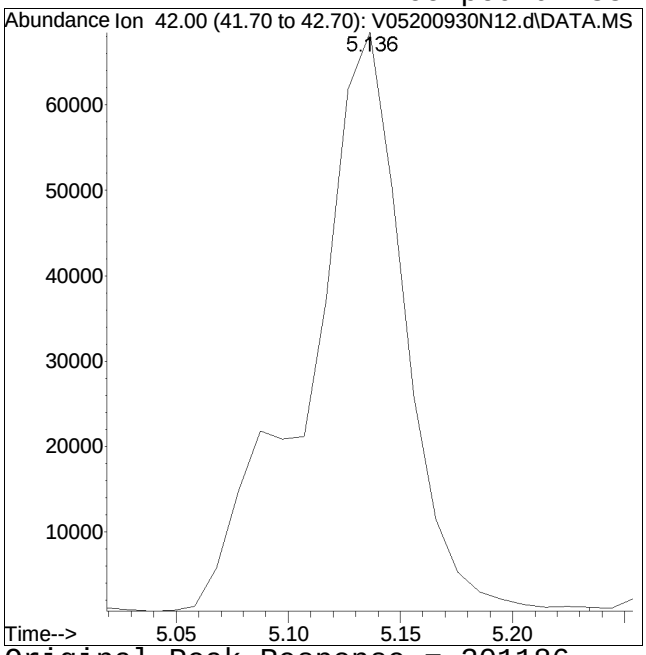
Sub List : 8260-Curve - Megamix plus Diox00930N\V05200930N09.d•

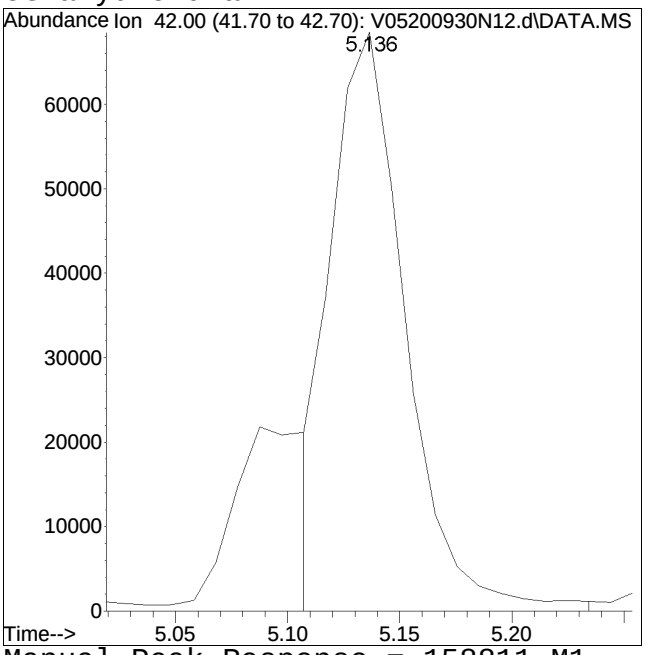


Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2020\2QMethod : V105_200930N_8260.m
Data File : V05200930N12.d Operator : VOA105:PD
Date Inj'd : 9/30/2020 7:46 pm Instrument : VOA 105
Sample : I8260STDL120PPB Quant Date : 10/1/2020 1:05 pm

Compound #35: Tetrahydrofuran





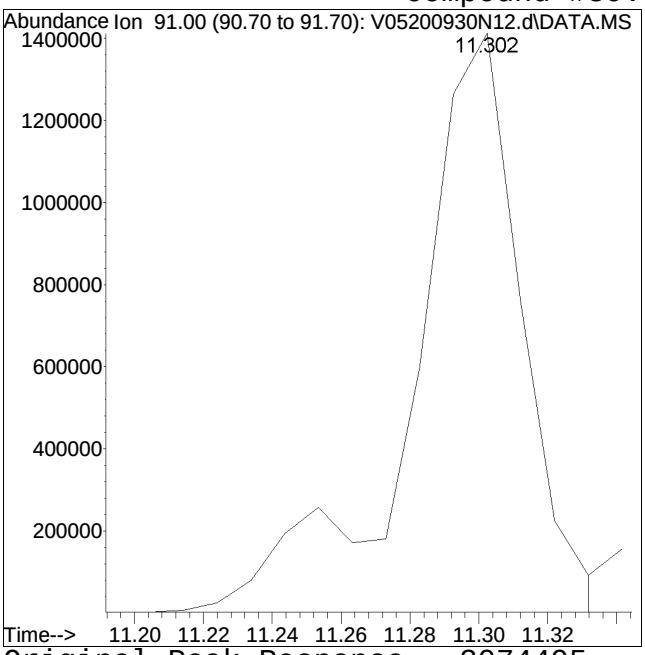
Original Peak Response = 201186 Manual Peak Response = 158811 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

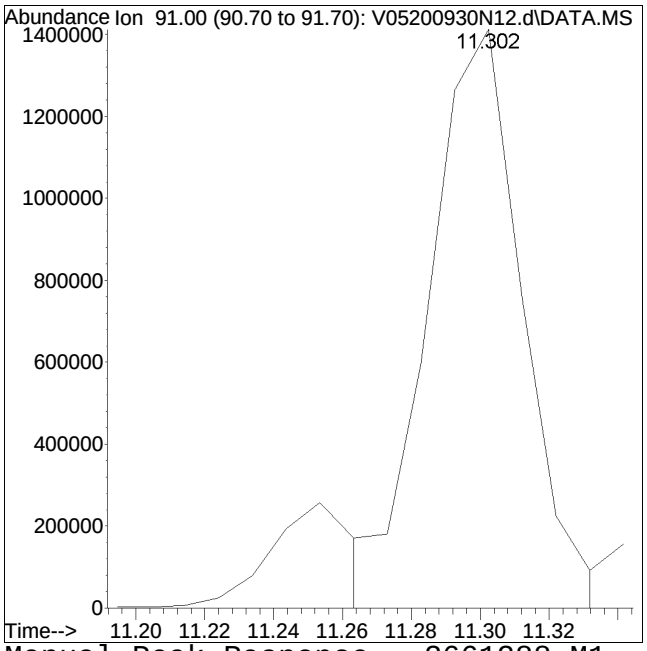
Data Path : I:\VOLATILES\VOA105\2020\2Q
Data File : V05200930N12.d
Date Inj'd : 9/30/2020 7:46 pm
Sample : I8260STDL120PPB

Method : V105_200930N_8260.m
Operator : VOA105:PD
Instrument : VOA 105
Quant Date : 10/1/2020 1:05 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 3074495



Manual Peak Response = 2661288 M1

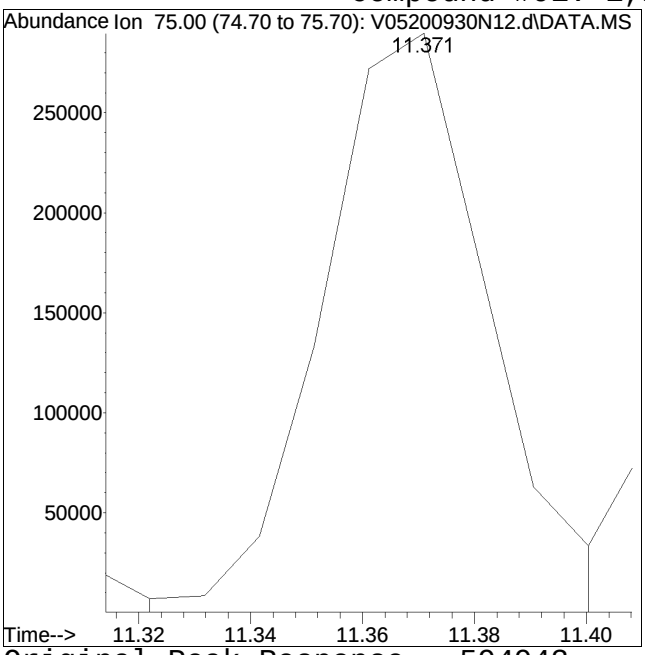
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

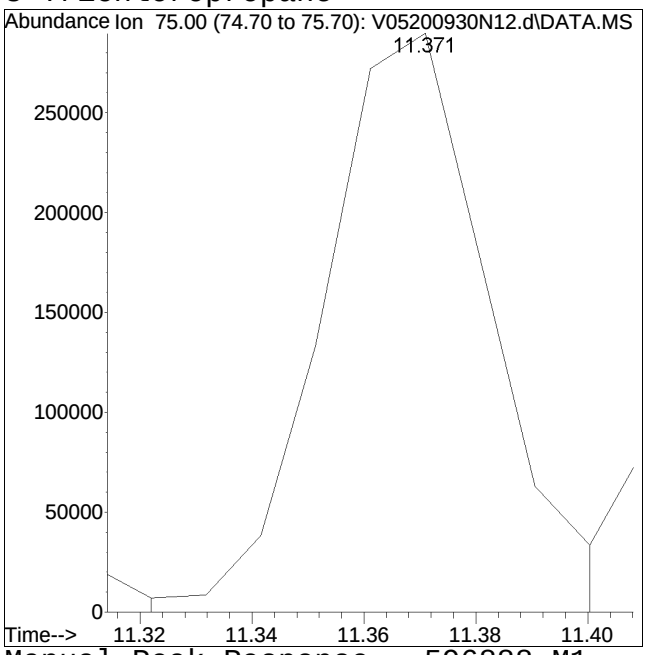
Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2020\2Q
Data File : V05200930N12.d
Date Inj'd : 9/30/2020 7:46 pm
Sample : I8260STDL120PPB

Method : V105_200930N_8260.m
Operator : VOA105:PD
Instrument : VOA 105
Quant Date : 10/1/2020 1:05 pm

Compound #91: 1,2,3-Trichloropropane





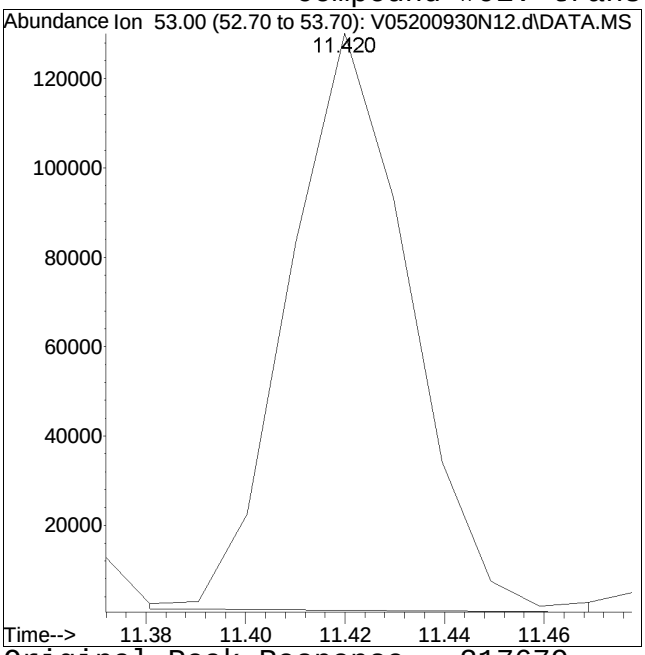
Original Peak Response = 594943 Manual Peak Response = 596888 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

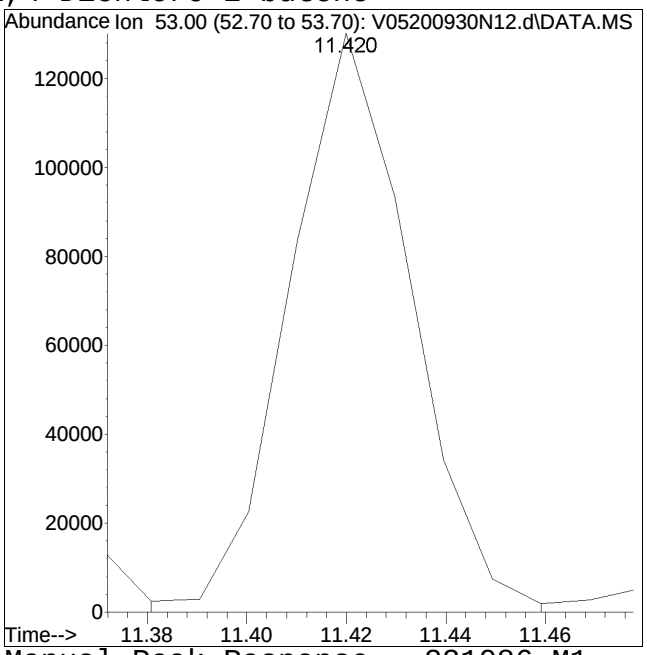
Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2020\2QMethod : V105_200930N_8260.m
Data File : V05200930N12.d Operator : VOA105:PD
Date Inj'd : 9/30/2020 7:46 pm Instrument : VOA 105
Sample : I8260STDL120PPB Quant Date : 10/1/2020 1:05 pm

Compound #92: trans-1,4-Dichloro-2-butene



Original Peak Response = 217679



Manual Peak Response = 221086 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05200930N13.D
Acq On : 30 Sep 2020 8:10 pm
Operator : VOA105:PD
Sample : I8260STDL200PPB
Misc : WG1416925,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 01 13:05:48 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\200930N\V05200930N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.958	96	265259	10.000	ug/L	0.00
Standard Area 1 = 246979			Recovery = 107.40%			
59) Chlorobenzene-d5	9.480	117	217892	10.000	ug/L	0.00
Standard Area 1 = 187941			Recovery = 115.94%			
79) 1,4-Dichlorobenzene-d4	12.194	152	122452	10.000	ug/L	0.00
Standard Area 1 = 100750			Recovery = 121.54%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.156	113	74624	10.374	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.74%			
43) 1,2-Dichloroethane-d4	5.684	65	93064	10.556	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.56%			
60) Toluene-d8	7.631	98	257966	9.561	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.61%			
83) 4-Bromofluorobenzene	10.979	95	103178	9.411	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.11%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.625	85	858793	211.360	ug/L #	96
3) Chloromethane	1.821	50	1338922	207.173	ug/L	99
4) Vinyl chloride	1.889	62	1403546	218.301	ug/L	97
5) Bromomethane	2.193	94	999962	173.539	ug/L	99
6) Chloroethane	2.300	64	617583	210.228	ug/L	95
7) Trichlorofluoromethane	2.437	101	2189297	205.590	ug/L	100
8) Ethyl ether	2.730	74	682024	208.707	ug/L #	55
10) 1,1-Dichloroethene	2.926	96	1306668	209.407	ug/L	90
11) Carbon disulfide	2.946	76	2865085	229.793	ug/L	100
12) Freon-113	2.955	101	1285817	214.861	ug/L	93
13) Iodomethane	3.063	142	1650275	204.920	ug/L	92
14) Acrolein	3.259	56	138459	221.325	ug/L	96
15) Methylene chloride	3.484	84	1222826	208.841	ug/L #	69
17) Acetone	3.533	43	250855	189.813	ug/L	99
18) trans-1,2-Dichloroethene	3.621	96	1181222	215.754	ug/L	93
19) Methyl acetate	3.640	43	665878	200.896	ug/L #	80
20) Methyl tert-butyl ether	3.718	73	2796118	215.443	ug/L #	86
21) tert-Butyl alcohol	3.836	59	418702	1082.917	ug/L	85
22) Diisopropyl ether	4.070	45	4667360	214.497	ug/L #	92
23) 1,1-Dichloroethane	4.207	63	2461436	211.695	ug/L	97
24) Halothane	4.256	117	974497	219.248	ug/L	98

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05200930N13.D
Acq On : 30 Sep 2020 8:10 pm
Operator : VOA105:PD
Sample : I8260STDL200PPB
Misc : WG1416925,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 01 13:05:48 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\200930N\V05200930N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.266	53	314752	219.989	ug/L	#	89
26) Ethyl tert-butyl ether	4.413	59	4134822	221.755	ug/L	#	80
27) Vinyl acetate	4.432	43	3062145	224.785	ug/L	#	93
28) cis-1,2-Dichloroethene	4.716	96	1435417	213.841	ug/L		90
29) 2,2-Dichloropropane	4.814	77	1914207	219.750	ug/L	#	83
30) Bromochloromethane	4.912	128	629583	216.425	ug/L	#	74
31) Cyclohexane	4.902	56	2514429	220.721	ug/L		75
32) Chloroform	4.980	83	2349153	214.136	ug/L	#	92
33) Ethyl acetate	5.088	43	1042619	215.299	ug/L	#	92
34) Carbon tetrachloride	5.107	117	1965844	234.026	ug/L		99
35) Tetrahydrofuran	5.137	42	278209M1	219.031	ug/L		
37) 1,1,1-Trichloroethane	5.176	97	2196203	215.906	ug/L		94
39) 2-Butanone	5.273	43	424938	206.060	ug/L	#	64
40) 1,1-Dichloropropene	5.293	75	1797080	215.530	ug/L		96
41) Benzene	5.538	78	4947156	218.739	ug/L	#	91
42) tert-Amyl methyl ether	5.645	73	3210944	225.083	ug/L		94
44) 1,2-Dichloroethane	5.753	62	1806555	213.153	ug/L		98
47) Methyl cyclohexane	6.105	83	2409128	225.393	ug/L	#	77
48) Trichloroethene	6.134	95	1481081	223.663	ug/L		97
50) Dibromomethane	6.574	93	766649	224.550	ug/L		93
51) 1,2-Dichloropropane	6.672	63	1380429	220.404	ug/L	#	89
53) 2-Chloroethyl vinyl ether	7.367	63	752096	202.675	ug/L		92
54) Bromodichloromethane	6.750	83	1862670	231.034	ug/L		99
57) 1,4-Dioxane	6.966	88	85828	2104.035	ug/L	#	82
58) cis-1,3-Dichloropropene	7.435	75	2164796	234.401	ug/L	#	81
61) Toluene	7.689	92	3304049	209.916	ug/L		99
62) 4-Methyl-2-pentanone	8.129	58	380313	218.062	ug/L	#	85
63) Tetrachloroethene	8.129	166	1560715	208.993	ug/L		97
65) trans-1,3-Dichloropropene	8.188	75	1973121	200.057	ug/L	#	77
67) Ethyl methacrylate	8.364	69	1396171	220.954	ug/L		87
68) 1,1,2-Trichloroethane	8.374	83	904578	217.374	ug/L		97
69) Chlorodibromomethane	8.579	129	1436722	197.628	ug/L		99
70) 1,3-Dichloropropane	8.687	76	1118141	197.089	ug/L		99
71) 1,2-Dibromoethane	8.854	107	1062846	212.498	ug/L		100
72) 2-Hexanone	9.138	43	694168	216.977	ug/L		94
73) Chlorobenzene	9.500	112	3796194	214.267	ug/L		93
74) Ethylbenzene	9.529	91	6735299	214.835	ug/L		94
75) 1,1,1,2-Tetrachloroethane	9.588	131	1431228	222.233	ug/L		98
76) p/m Xylene	9.716	106	5474928	445.522	ug/L		84
77) o Xylene	10.264	106	4995445	448.550	ug/L		84

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05200930N13.D
Acq On : 30 Sep 2020 8:10 pm
Operator : VOA105:PD
Sample : I8260STDL200PPB
Misc : WG1416925,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 01 13:05:48 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\200930N\V05200930N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	10.333	104	8413220	456.531	ug/L	95
80) Bromoform	10.372	173	921458	177.264	ug/L	97
82) Isopropylbenzene	10.646	105	6732149	207.902	ug/L	93
84) Bromobenzene	11.087	156	1638421	207.751	ug/L	100
85) n-Propylbenzene	11.126	91	7933877	206.381	ug/L	94
86) 1,4-Dichlorobutane	11.156	55	1855775	207.708	ug/L	96
87) 1,1,2,2-Tetrachloroethane	11.234	83	1226435	214.832	ug/L	99
88) 4-Ethyltoluene	11.254	105	6345557	211.919	ug/L	94
89) 2-Chlorotoluene	11.303	91	4346468M1	200.596	ug/L	
90) 1,3,5-Trimethylbenzene	11.351	105	5711379	213.558	ug/L	92
91) 1,2,3-Trichloropropane	11.371	75	1019665M1	212.965	ug/L	
92) trans-1,4-Dichloro-2-b...	11.420	53	368164M1	217.251	ug/L	
93) 4-Chlorotoluene	11.489	91	4689643	209.054	ug/L	92
94) tert-Butylbenzene	11.694	119	4961312	209.348	ug/L	93
97) 1,2,4-Trimethylbenzene	11.773	105	5488724	214.832	ug/L	92
98) sec-Butylbenzene	11.880	105	6619718	206.853	ug/L	95
99) p-Isopropyltoluene	12.037	119	6206721	210.638	ug/L	96
100) 1,3-Dichlorobenzene	12.116	146	3032168	209.942	ug/L	98
101) 1,4-Dichlorobenzene	12.204	146	3029464	208.366	ug/L	98
102) p-Diethylbenzene	12.409	119	3608548	222.000	ug/L	98
103) n-Butylbenzene	12.468	91	5415848	213.388	ug/L	98
104) 1,2-Dichlorobenzene	12.635	146	2693567	210.103	ug/L	98
105) 1,2,4,5-Tetramethylben...	13.203	119	5204672	226.021	ug/L	94
106) 1,2-Dibromo-3-chloropr...	13.418	155	188201	178.074	ug/L	97
107) 1,3,5-Trichlorobenzene	13.438	180	1962738	213.230	ug/L	99
108) Hexachlorobutadiene	14.006	225	759741	208.996	ug/L	99
109) 1,2,4-Trichlorobenzene	14.036	180	1683323	213.032	ug/L	100
110) Naphthalene	14.329	128	3160173	208.456	ug/L	100
111) 1,2,3-Trichlorobenzene	14.496	180	1320073	205.827	ug/L	99

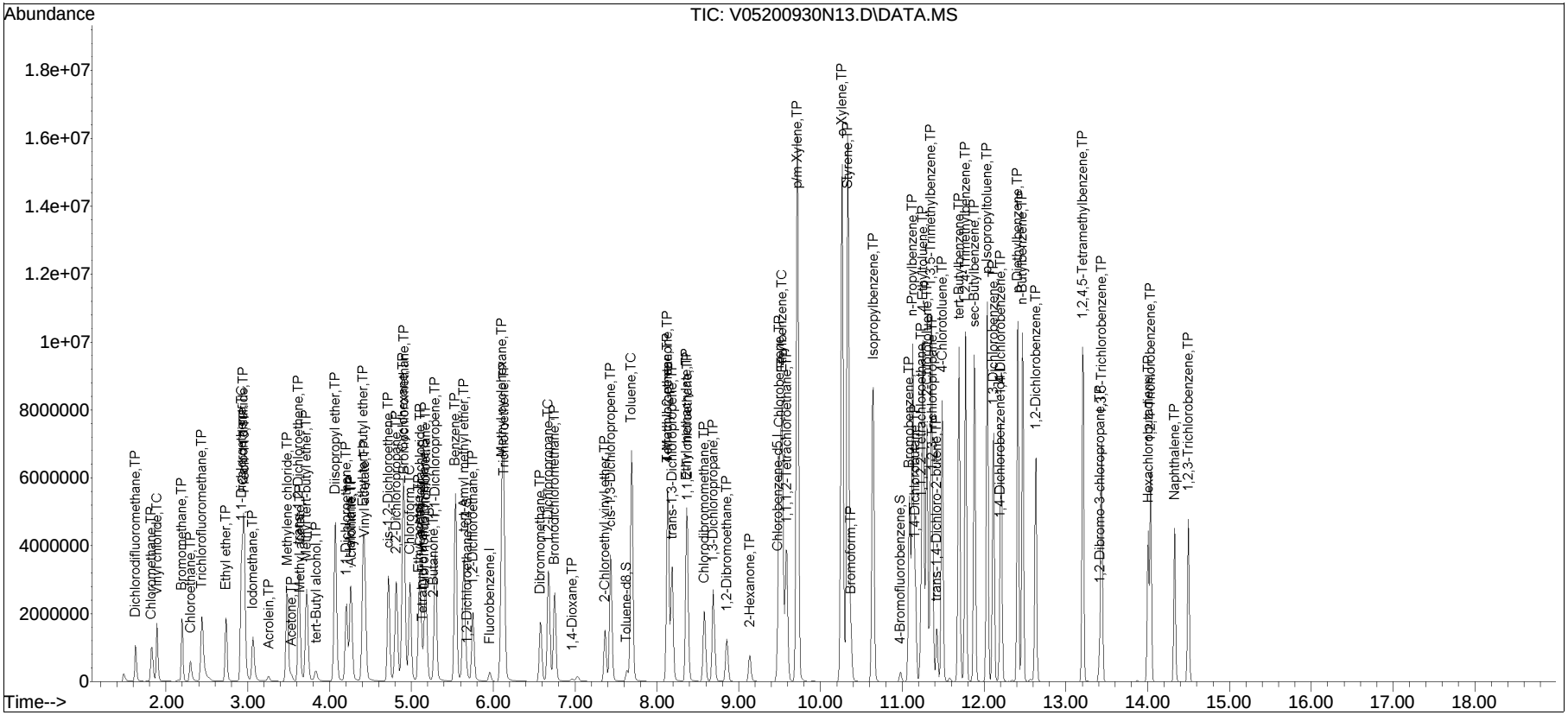
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05200930N13.D
Acq On : 30 Sep 2020 8:10 pm
Operator : VOA105:PD
Sample : I8260STDL200PPB
Misc : WG1416925,ICAL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 01 13:05:48 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

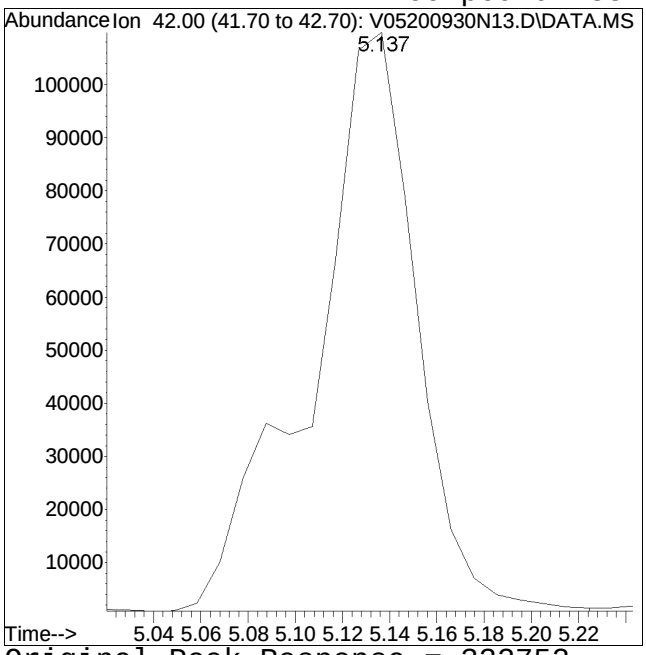
Sub List : 8260-Curve - Megamix plus Diox00930N\V05200930N09.d•

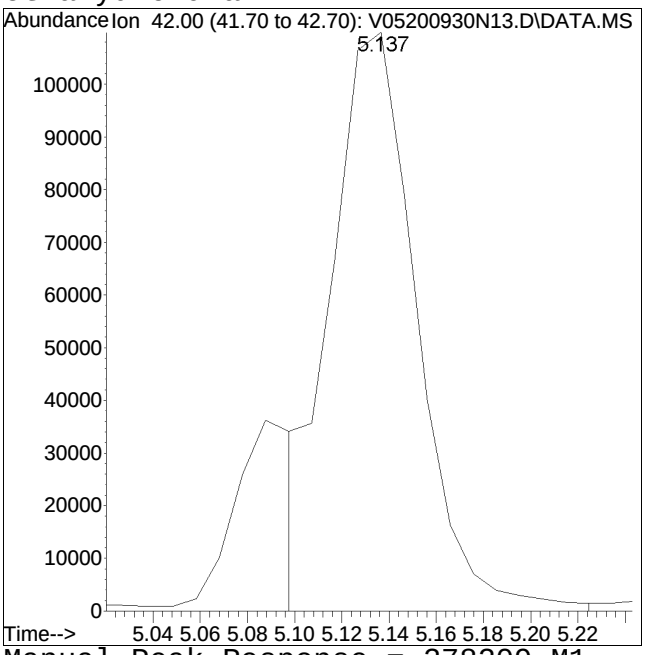


Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2020\2QMethod : V105_200930N_8260.m
Data File : V05200930N13.D Operator : VOA105:PD
Date Inj'd : 9/30/2020 8:10 pm Instrument : VOA 105
Sample : I8260STDL200PPB Quant Date : 10/1/2020 1:05 pm

Compound #35: Tetrahydrofuran



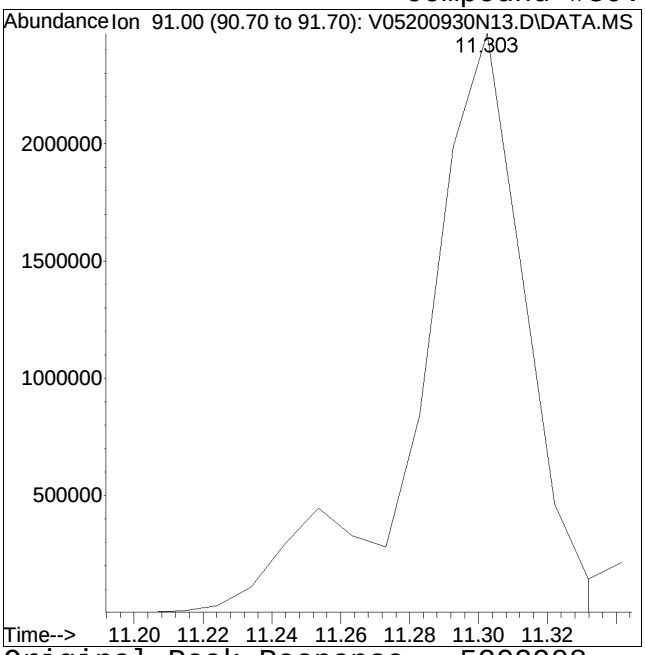


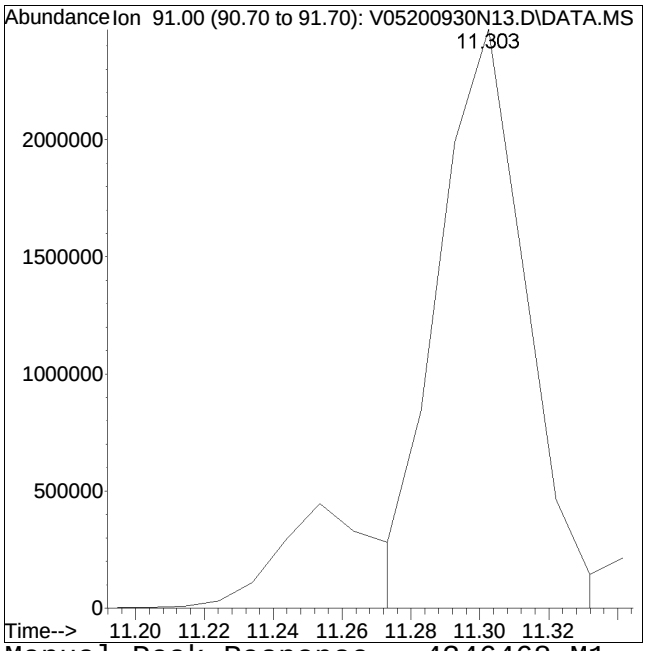
Original Peak Response = 332752 Manual Peak Response = 278209 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2020\2QMethod : V105_200930N_8260.m
Data File : V05200930N13.D Operator : VOA105:PD
Date Inj'd : 9/30/2020 8:10 pm Instrument : VOA 105
Sample : I8260STDL200PPB Quant Date : 10/1/2020 1:05 pm

Compound #89: 2-Chlorotoluene



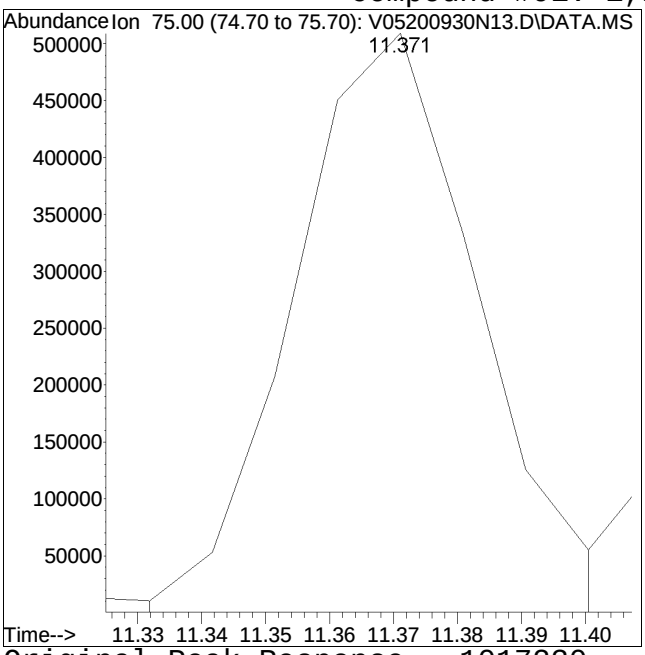


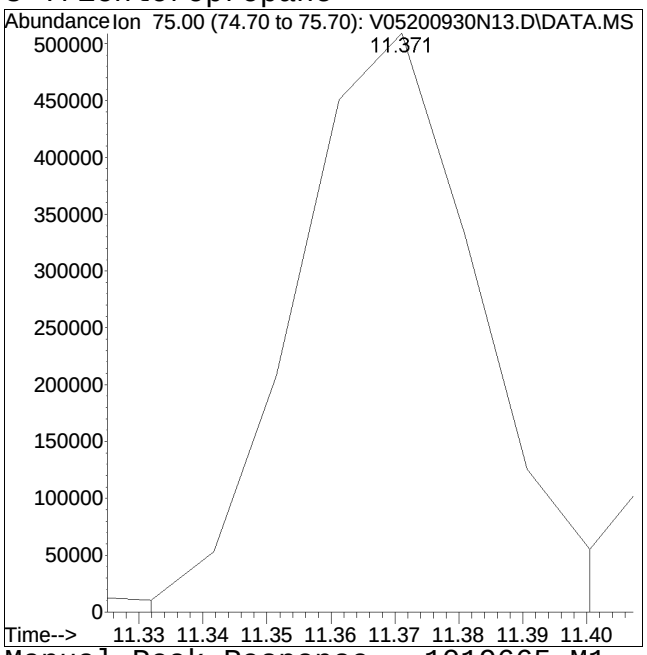
Original Peak Response = 5202908 Manual Peak Response = 4346468 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2020\2QMethod : V105_200930N_8260.m
Data File : V05200930N13.D Operator : VOA105:PD
Date Inj'd : 9/30/2020 8:10 pm Instrument : VOA 105
Sample : I8260STDL200PPB Quant Date : 10/1/2020 1:05 pm

Compound #91: 1,2,3-Trichloropropane



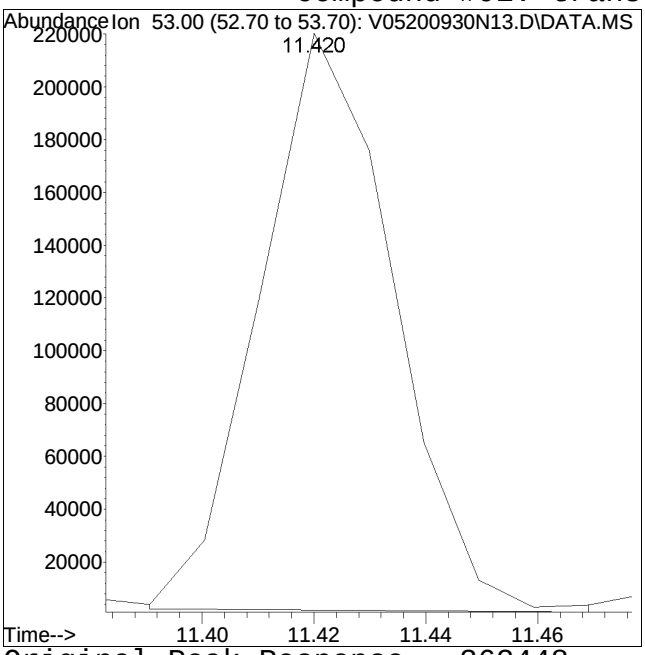


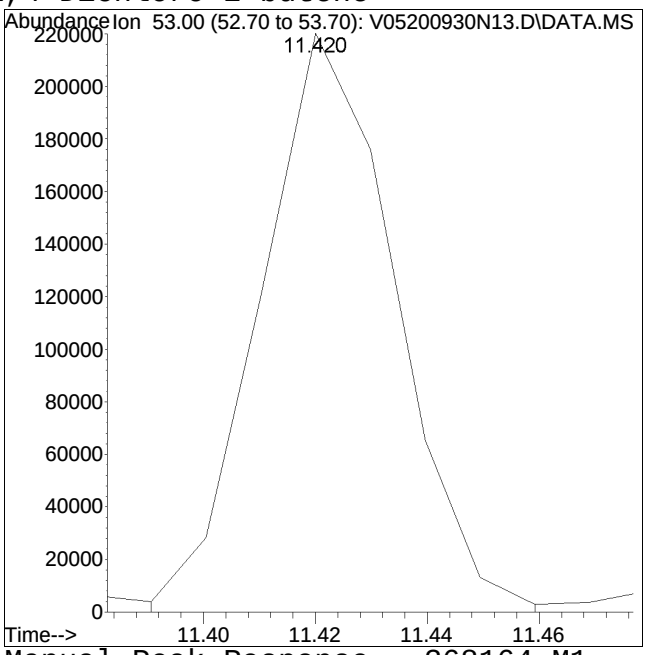
Original Peak Response = 1017230 Manual Peak Response = 1019665 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2020\2QMethod : V105_200930N_8260.m
Data File : V05200930N13.D Operator : VOA105:PD
Date Inj'd : 9/30/2020 8:10 pm Instrument : VOA 105
Sample : I8260STDL200PPB Quant Date : 10/1/2020 1:05 pm

Compound #92: trans-1,4-Dichloro-2-butene



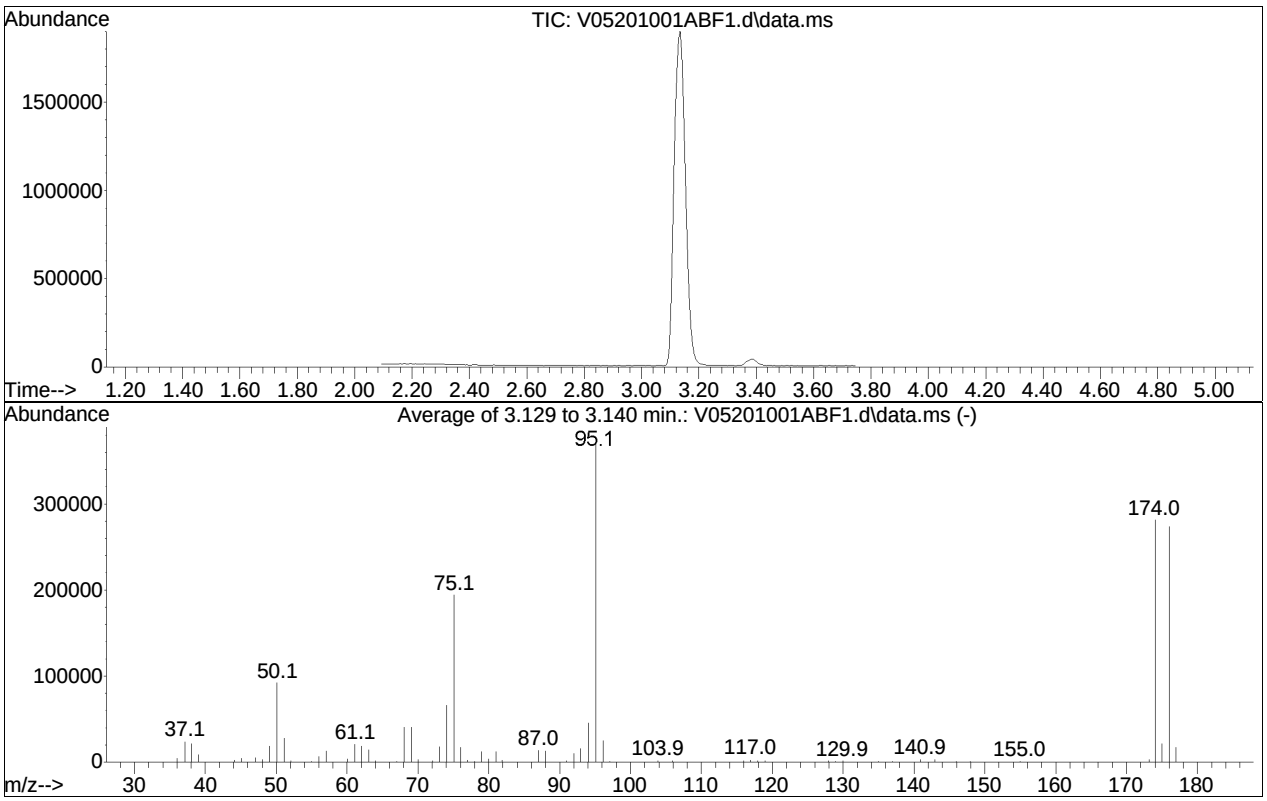


Original Peak Response = 362448 Manual Peak Response = 368164 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05201001ABF1.d
Acq On : 1 Oct 2020 11:45 am
Operator : VOA105:PD
Sample : WG1416925-2
Misc : WG1416925
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Thu Oct 01 13:02:53 2020



AutoFind: Scans 191, 192, 193; Background Corrected with Scan 179

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.7	91805	PASS
75	95	30	60	52.4	194411	PASS
95	95	100	100	100.0	371136	PASS
96	95	5	9	6.7	24976	PASS
173	174	0.00	2	1.2	3300	PASS
174	95	50	100	75.9	281643	PASS
175	174	5	9	7.5	21131	PASS
176	174	95	101	97.3	273941	PASS
177	176	5	9	6.2	17058	PASS

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05201001A03.d
Acq On : 1 Oct 2020 12:52 pm
Operator : VOA105:PD
Sample : C8260STDL10PPB
Misc : WG1416925,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 01 13:13:51 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	91	0.00
2	TP	Dichlorodifluoromethane	0.153	0.163	-6.5	110	0.00
3	TP	Chloromethane	0.244	0.264	-8.2	111	-0.01
4	TC	Vinyl chloride	0.242	0.253	-4.5	105	0.00
5	TP	Bromomethane	* 10.000	13.167	-31.7#	147	0.00
6	TP	Chloroethane	* 10.000	10.083	-0.8	100	0.00
7	TP	Trichlorofluoromethane	0.401	0.430	-7.2	107	-0.01
8	TP	Ethyl ether	0.123	0.133	-8.1	112	0.00
10	TC	1,1-Dichloroethene	0.235	0.226	3.8	99	0.00
11	TP	Carbon disulfide	0.470	0.660	-40.4#	150	0.00
12	TP	Freon-113	0.226	0.261	-15.5	118	0.00
13	TP	Iodomethane	0.304	0.287	5.6	102	0.00
14	TP	Acrolein	0.024	0.026#	-8.3	121	0.00
15	TP	Methylene chloride	0.221	0.230	-4.1	108	0.00
17	TP	Acetone	0.050	0.063#	-26.0#	137	0.00
18	TP	trans-1,2-Dichloroethene	0.206	0.225	-9.2	108	0.00
19	TP	Methyl acetate	0.125	0.165	-32.0#	144	0.00
20	TP	Methyl tert-butyl ether	0.489	0.539	-10.2	115	0.00
21	TP	tert-Butyl alcohol	0.015	0.017#	-13.3	125	0.00
22	TP	Diisopropyl ether	0.820	0.862	-5.1	109	0.00
23	TP	1,1-Dichloroethane	0.438	0.449	-2.5	104	0.00
24	TP	Halothane	0.168	0.188	-11.9	114	0.00
25	TP	Acrylonitrile	0.054	0.060	-11.1	121	0.00
26	TP	Ethyl tert-butyl ether	0.703	0.731	-4.0	110	0.00
27	TP	Vinyl acetate	0.514	0.533	-3.7	108	0.00
28	TP	cis-1,2-Dichloroethene	0.253	0.255	-0.8	100	0.00
29	TP	2,2-Dichloropropane	0.328	0.356	-8.5	112	0.00
30	TP	Bromochloromethane	0.110	0.118	-7.3	108	0.00
31	TP	Cyclohexane	0.429	0.513	-19.6	122	0.00
32	TC	Chloroform	0.414	0.421	-1.7	105	0.00
33	TP	Ethyl acetate	0.183	0.172	6.0	100	0.00
34	TP	Carbon tetrachloride	0.317	0.332	-4.7	107	0.00
35	TP	Tetrahydrofuran	0.048	0.054	-12.5	114	0.00
36	S	Dibromofluoromethane	0.271	0.272	-0.4	91	0.00
37	TP	1,1,1-Trichloroethane	0.383	0.392	-2.3	103	0.00
39	TP	2-Butanone	0.078	0.096#	-23.1#	129	0.00
40	TP	1,1-Dichloropropene	0.314	0.328	-4.5	105	0.00
41	TP	Benzene	0.853	0.905	-6.1	108	0.00
42	TP	tert-Amyl methyl ether	0.538	0.576	-7.1	113	0.00

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05201001A03.d
Acq On : 1 Oct 2020 12:52 pm
Operator : VOA105:PD
Sample : C8260STDL10PPB
Misc : WG1416925,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 01 13:13:51 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43	S	1,2-Dichloroethane-d4	0.332	0.327	1.5	87	0.00
44	TP	1,2-Dichloroethane	0.320	0.321	-0.3	104	0.00
47	TP	Methyl cyclohexane	0.403	0.442	-9.7	116	0.00
48	TP	Trichloroethene	0.250	0.248	0.8	104	0.00
50	TP	Dibromomethane	0.129	0.133	-3.1	106	0.00
51	TC	1,2-Dichloropropane	0.236	0.252	-6.8	111	0.00
53	TP	2-Chloroethyl vinyl ether	* 10.000	11.160	-11.6	140	0.00
54	TP	Bromodichloromethane	0.304	0.316	-3.9	109	0.00
57	TP	1,4-Dioxane	0.00154	0.00157#	-1.9	92	0.00
58	TP	cis-1,3-Dichloropropene	0.348	0.368	-5.7	112	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.00
60	S	Toluene-d8	1.238	1.282	-3.6	92	0.00
61	TC	Toluene	0.722	0.773	-7.1	107	0.00
62	TP	4-Methyl-2-pentanone	0.080	0.086#	-7.5	119	0.00
63	TP	Tetrachloroethene	0.343	0.357	-4.1	104	0.00
65	TP	trans-1,3-Dichloropropene	* 10.000	9.797	2.0	112	0.00
67	TP	Ethyl methacrylate	0.290	0.314	-8.3	120	0.00
68	TP	1,1,2-Trichloroethane	0.191	0.205	-7.3	108	0.00
69	TP	Chlorodibromomethane	* 10.000	10.690	-6.9	119	0.00
70	TP	1,3-Dichloropropane	0.260	0.289	-11.2	112	0.00
71	TP	1,2-Dibromoethane	0.230	0.247	-7.4	109	0.00
72	TP	2-Hexanone	0.147	0.171	-16.3	122	0.00
73	TP	Chlorobenzene	0.813	0.864	-6.3	110	0.00
74	TC	Ethylbenzene	1.439	1.504	-4.5	108	0.00
75	TP	1,1,1,2-Tetrachloroethane	0.296	0.318	-7.4	112	0.00
76	TP	p/m Xylene	0.564	0.580	-2.8	108	0.00
77	TP	o Xylene	0.511	0.545	-6.7	112	0.00
78	TP	Styrene	0.846	0.919	-8.6	116	-0.01
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	89	0.00
80	TP	Bromoform	* 10.000	10.827	-8.3	119	0.00
82	TP	Isopropylbenzene	2.644	2.834	-7.2	107	0.00
83	S	4-Bromofluorobenzene	0.895	0.933	-4.2	90	0.00
84	TP	Bromobenzene	0.644	0.688	-6.8	108	0.00
85	TP	n-Propylbenzene	3.139	3.361	-7.1	107	0.00
86	TP	1,4-Dichlorobutane	0.730	0.840	-15.1	118	0.00
87	TP	1,1,2,2-Tetrachloroethane	0.466	0.528	-13.3	116	0.00
88	TP	4-Ethyltoluene	2.445	2.696	-10.3	109	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05201001A03.d
Acq On : 1 Oct 2020 12:52 pm
Operator : VOA105:PD
Sample : C8260STDL10PPB
Misc : WG1416925,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 01 13:13:51 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
89 TP	2-Chlorotoluene	1.769	1.902	-7.5	108	0.00
90 TP	1,3,5-Trimethylbenzene	2.184	2.266	-3.8	105	0.00
91 TP	1,2,3-Trichloropropane	0.391	0.427	-9.2	112	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.138	0.161	-16.7	131	0.00
93 TP	4-Chlorotoluene	1.832	1.952	-6.6	107	0.00
94 TP	tert-Butylbenzene	1.935	2.067	-6.8	107	0.00
97 TP	1,2,4-Trimethylbenzene	2.086	2.282	-9.4	109	0.00
98 TP	sec-Butylbenzene	2.613	2.908	-11.3	111	0.00
99 TP	p-Isopropyltoluene	2.406	2.504	-4.1	105	0.00
100 TP	1,3-Dichlorobenzene	1.179	1.246	-5.7	107	0.00
101 TP	1,4-Dichlorobenzene	1.187	1.254	-5.6	107	0.00
102 TP	p-Diethylbenzene	1.327	1.386	-4.4	105	0.00
103 TP	n-Butylbenzene	2.073	2.217	-6.9	109	0.00
104 TP	1,2-Dichlorobenzene	1.047	1.125	-7.4	109	0.00
105 TP	1,2,4,5-Tetramethylbenzene	1.881	1.950	-3.7	106	0.00
106 TP	1,2-Dibromo-3-chloropropane *	10.000	12.113	-21.1#	131	0.00
107 TP	1,3,5-Trichlorobenzene	0.752	0.825	-9.7	111	0.00
108 TP	Hexachlorobutadiene	0.297	0.301	-1.3	105	0.00
109 TP	1,2,4-Trichlorobenzene	0.645	0.692	-7.3	110	0.00
110 TP	Naphthalene	1.238	1.372	-10.8	116	0.00
111 TP	1,2,3-Trichlorobenzene	0.524	0.555	-5.9	111	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 6 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05201001A03.d
Acq On : 1 Oct 2020 12:52 pm
Operator : VOA105:PD
Sample : C8260STDL10PPB
Misc : WG1416925,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 01 13:13:51 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\200930N\V05200930N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.958	96	224584	10.000	ug/L	0.00
Standard Area 1 = 246979			Recovery = 90.93%			
59) Chlorobenzene-d5	9.471	117	170136	10.000	ug/L	0.00
Standard Area 1 = 187941			Recovery = 90.53%			
79) 1,4-Dichlorobenzene-d4	12.184	152	89928	10.000	ug/L	0.00
Standard Area 1 = 100750			Recovery = 89.26%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.156	113	61035	10.021	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.21%			
43) 1,2-Dichloroethane-d4	5.684	65	73451	9.840	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.40%			
60) Toluene-d8	7.631	98	218128	10.354	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.54%			
83) 4-Bromofluorobenzene	10.979	95	83936	10.425	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.25%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.625	85	36520	10.616	ug/L #	97
3) Chloromethane	1.821	50	59201	10.819	ug/L	97
4) Vinyl chloride	1.889	62	56931	10.458	ug/L	98
5) Bromomethane	2.202	94	38572	13.167	ug/L	99
6) Chloroethane	2.310	64	45001	10.083	ug/L	95
7) Trichlorofluoromethane	2.437	101	96563	10.710	ug/L	99
8) Ethyl ether	2.740	74	29820	10.778	ug/L #	42
10) 1,1-Dichloroethene	2.926	96	50787	9.613	ug/L	85
11) Carbon disulfide	2.946	76	148313	14.050	ug/L	100
12) Freon-113	2.955	101	58511	11.548	ug/L	93
13) Iodomethane	3.063	142	64357	9.439	ug/L	90
14) Acrolein	3.259	56	5729	10.816	ug/L	98
15) Methylene chloride	3.484	84	51558	10.400	ug/L #	69
17) Acetone	3.532	43	14184	12.676	ug/L	98
18) trans-1,2-Dichloroethene	3.630	96	50477	10.890	ug/L	93
19) Methyl acetate	3.640	43	37046	13.201	ug/L #	77
20) Methyl tert-butyl ether	3.718	73	121072	11.018	ug/L #	86
21) tert-Butyl alcohol	3.836	59	18834	57.534	ug/L	93
22) Diisopropyl ether	4.070	45	193610	10.509	ug/L #	93
23) 1,1-Dichloroethane	4.207	63	100813	10.241	ug/L	96
24) Halothane	4.256	117	42273	11.233	ug/L	97

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05201001A03.d
Acq On : 1 Oct 2020 12:52 pm
Operator : VOA105:PD
Sample : C8260STDL10PPB
Misc : WG1416925,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 01 13:13:51 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\200930N\V05200930N09.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.266	53	13492	11.138	ug/L	#	87
26) Ethyl tert-butyl ether	4.413	59	164194	10.401	ug/L	#	81
27) Vinyl acetate	4.442	43	119762	10.384	ug/L	#	92
28) cis-1,2-Dichloroethene	4.726	96	57280	10.079	ug/L		93
29) 2,2-Dichloropropane	4.814	77	79858	10.828	ug/L	#	81
30) Bromochloromethane	4.912	128	26572	10.789	ug/L	#	72
31) Cyclohexane	4.902	56	115151	11.939	ug/L		74
32) Chloroform	4.980	83	94545	10.179	ug/L	#	93
33) Ethyl acetate	5.088	43	38579	9.409	ug/L	#	92
34) Carbon tetrachloride	5.107	117	74624	10.493	ug/L		98
35) Tetrahydrofuran	5.136	42	12093M1	11.245	ug/L		
37) 1,1,1-Trichloroethane	5.176	97	87932	10.210	ug/L		94
39) 2-Butanone	5.283	43	21556	12.346	ug/L	#	61
40) 1,1-Dichloropropene	5.293	75	73581	10.423	ug/L		96
41) Benzene	5.538	78	203283	10.616	ug/L	#	92
42) tert-Amyl methyl ether	5.645	73	129278	10.704	ug/L		94
44) 1,2-Dichloroethane	5.753	62	72141	10.053	ug/L		99
47) Methyl cyclohexane	6.105	83	99335	10.977	ug/L	#	78
48) Trichloroethene	6.134	95	55684	9.932	ug/L		95
50) Dibromomethane	6.574	93	29782	10.303	ug/L		93
51) 1,2-Dichloropropane	6.672	63	56500	10.655	ug/L	#	87
53) 2-Chloroethyl vinyl ether	7.367	63	29968	11.160	ug/L		90
54) Bromodichloromethane	6.750	83	70997	10.401	ug/L		100
57) 1,4-Dioxane	6.965	88	17627	510.380	ug/L	#	81
58) cis-1,3-Dichloropropene	7.435	75	82615	10.566	ug/L	#	79
61) Toluene	7.689	92	131584	10.706	ug/L		100
62) 4-Methyl-2-pentanone	8.129	58	14670	10.772	ug/L	#	79
63) Tetrachloroethene	8.129	166	60689	10.408	ug/L		97
65) trans-1,3-Dichloropropene	8.188	75	72790	9.797	ug/L	#	76
67) Ethyl methacrylate	8.364	69	53413	10.826	ug/L		86
68) 1,1,2-Trichloroethane	8.374	83	34955	10.758	ug/L		96
69) Chlorodibromomethane	8.579	129	57276	10.690	ug/L		99
70) 1,3-Dichloropropane	8.687	76	49150	11.095	ug/L		98
71) 1,2-Dibromoethane	8.853	107	42036	10.763	ug/L		99
72) 2-Hexanone	9.138	43	29144	11.667	ug/L		93
73) Chlorobenzene	9.500	112	146980	10.625	ug/L		93
74) Ethylbenzene	9.529	91	255801	10.449	ug/L		95
75) 1,1,1,2-Tetrachloroethane	9.578	131	54183	10.775	ug/L		98
76) p/m Xylene	9.715	106	197471	20.580	ug/L		88
77) o Xylene	10.254	106	185561	21.339	ug/L		87

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05201001A03.d
Acq On : 1 Oct 2020 12:52 pm
Operator : VOA105:PD
Sample : C8260STDL10PPB
Misc : WG1416925,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 01 13:13:51 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\200930N\V05200930N09.d
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Styrene	10.323	104	312859	21.742	ug/L	90
80)	Bromoform	10.362	173	31485	10.827	ug/L	99
82)	Isopropylbenzene	10.636	105	254825	10.716	ug/L	94
84)	Bromobenzene	11.087	156	61829	10.675	ug/L	99
85)	n-Propylbenzene	11.126	91	302277	10.707	ug/L	96
86)	1,4-Dichlorobutane	11.156	55	75554	11.515	ug/L	95
87)	1,1,2,2-Tetrachloroethane	11.224	83	47502	11.330	ug/L	99
88)	4-Ethyltoluene	11.253	105	242478	11.027	ug/L	96
89)	2-Chlorotoluene	11.293	91	171028M1	10.748	ug/L	
90)	1,3,5-Trimethylbenzene	11.351	105	203736	10.373	ug/L	93
91)	1,2,3-Trichloropropane	11.371	75	38356M1	10.908	ug/L	
92)	trans-1,4-Dichloro-2-b...	11.420	53	14463M1	11.621	ug/L	
93)	4-Chlorotoluene	11.479	91	175503	10.653	ug/L	93
94)	tert-Butylbenzene	11.694	119	185906	10.682	ug/L	95
97)	1,2,4-Trimethylbenzene	11.773	105	205194	10.936	ug/L	93
98)	sec-Butylbenzene	11.880	105	261527	11.128	ug/L	96
99)	p-Isopropyltoluene	12.037	119	225172	10.405	ug/L	96
100)	1,3-Dichlorobenzene	12.116	146	112093	10.568	ug/L	97
101)	1,4-Dichlorobenzene	12.204	146	112760	10.561	ug/L	97
102)	p-Diethylbenzene	12.409	119	124678	10.444	ug/L	96
103)	n-Butylbenzene	12.468	91	199363	10.696	ug/L	97
104)	1,2-Dichlorobenzene	12.625	146	101155	10.744	ug/L	97
105)	1,2,4,5-Tetramethylben...	13.203	119	175363	10.370	ug/L	94
106)	1,2-Dibromo-3-chloropr...	13.409	155	7149	12.113	ug/L	95
107)	1,3,5-Trichlorobenzene	13.438	180	74169	10.972	ug/L	98
108)	Hexachlorobutadiene	14.006	225	27088	10.147	ug/L	99
109)	1,2,4-Trichlorobenzene	14.036	180	62235	10.725	ug/L	98
110)	Naphthalene	14.329	128	123411	11.085	ug/L	100
111)	1,2,3-Trichlorobenzene	14.496	180	49920	10.599	ug/L	99

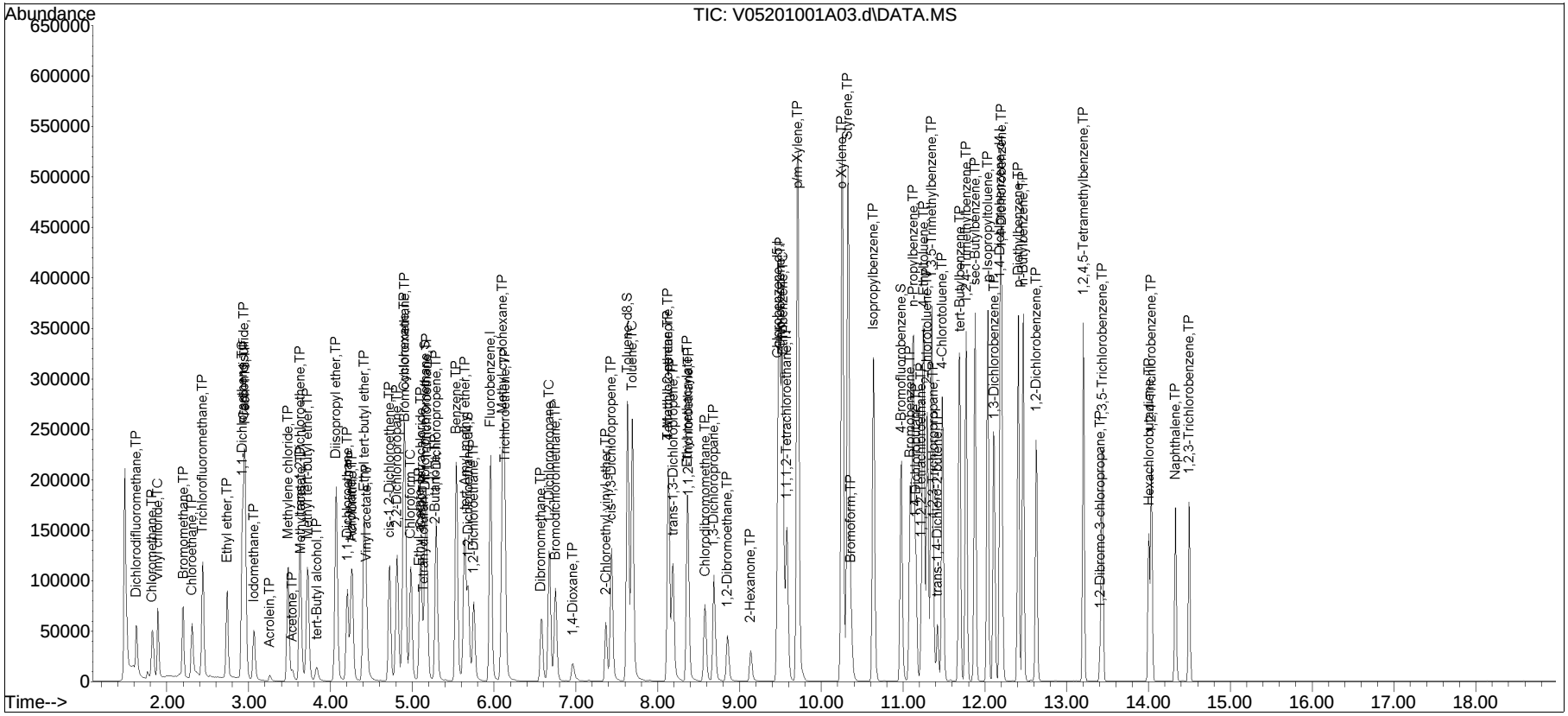
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\200930N\
Data File : V05201001A03.d
Acq On : 1 Oct 2020 12:52 pm
Operator : VOA105:PD
Sample : C8260STDL10PPB
Misc : WG1416925,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 01 13:13:51 2020
Quant Method : I:\VOLATILES\VOA105\2020\200930N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

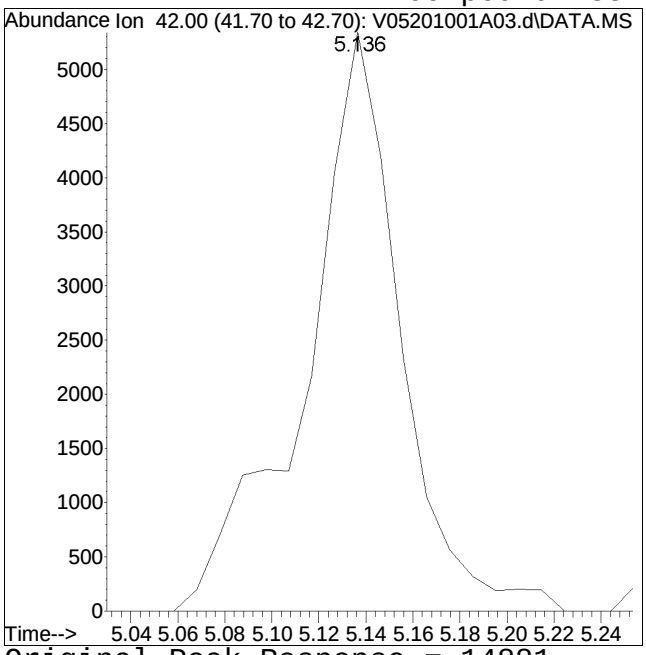
Sub List : 8260-Curve - Megamix plus Diox00930N\V05200930N09.d•

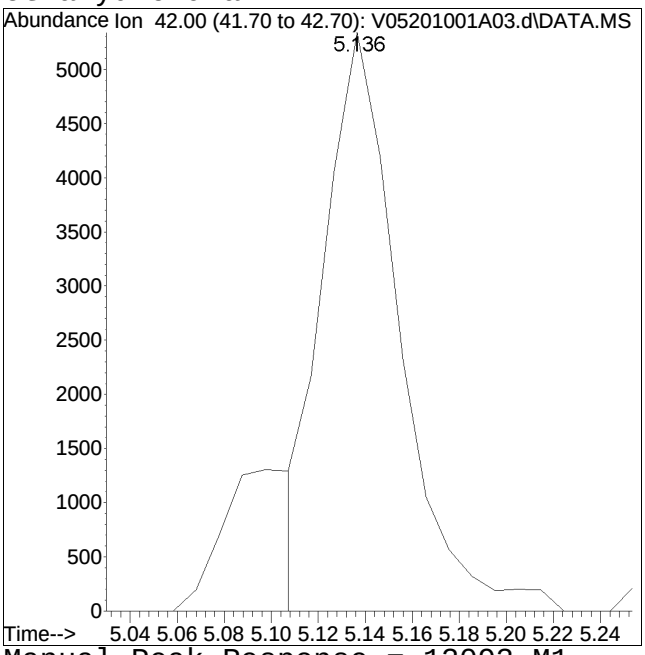


Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2020\2QMethod : V105_200930N_8260.m
Data File : V05201001A03.d Operator : VOA105:PD
Date Inj'd : 10/1/2020 12:52 pm Instrument : VOA 105
Sample : C8260STDL10PPB Quant Date : 10/1/2020 1:12 pm

Compound #35: Tetrahydrofuran





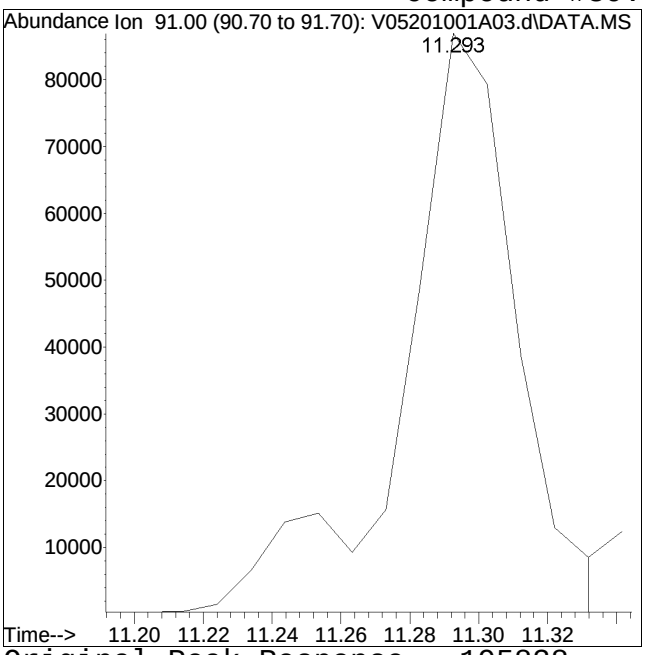
Original Peak Response = 14881 Manual Peak Response = 12093 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

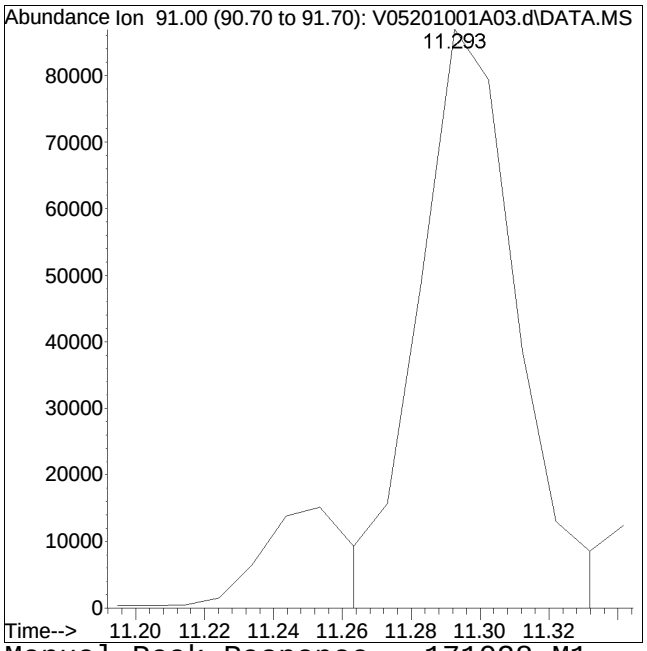
Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2020\2QMethod : V105_200930N_8260.m
Data File : V05201001A03.d Operator : VOA105:PD
Date Inj'd : 10/1/2020 12:52 pm Instrument : VOA 105
Sample : C8260STDL10PPB Quant Date : 10/1/2020 1:12 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 195838



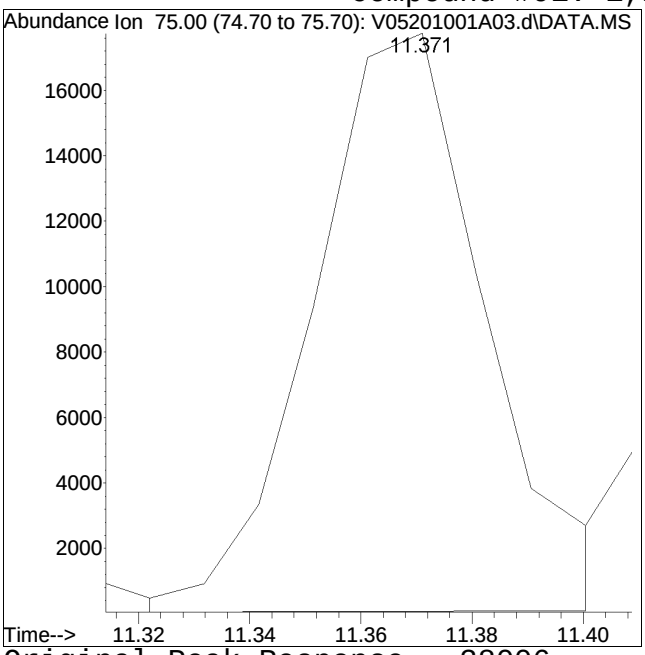
Manual Peak Response = 171028 M1

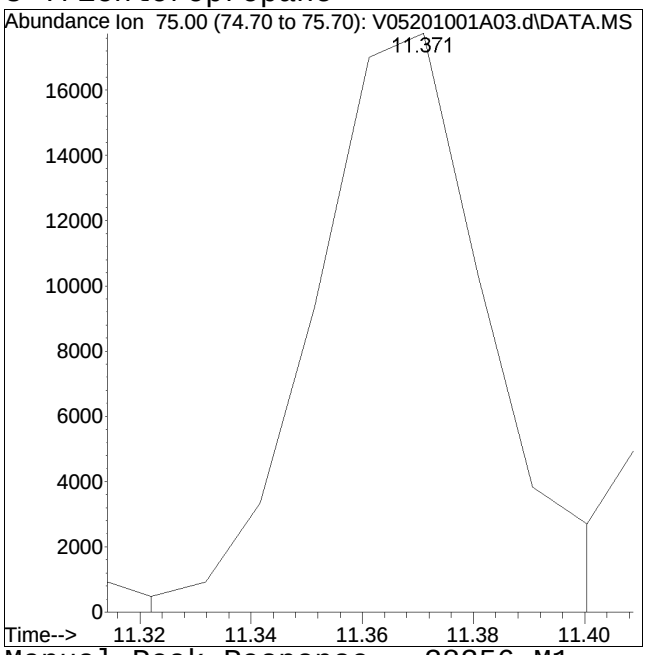
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2020\2QMethod : V105_200930N_8260.m
Data File : V05201001A03.d Operator : VOA105:PD
Date Inj'd : 10/1/2020 12:52 pm Instrument : VOA 105
Sample : C8260STDL10PPB Quant Date : 10/1/2020 1:12 pm

Compound #91: 1,2,3-Trichloropropane



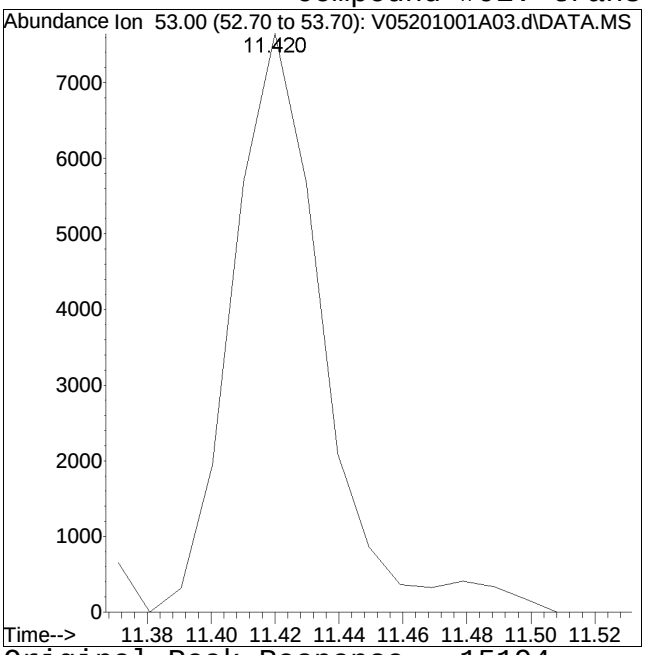


Original Peak Response = 38006 Manual Peak Response = 38356 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

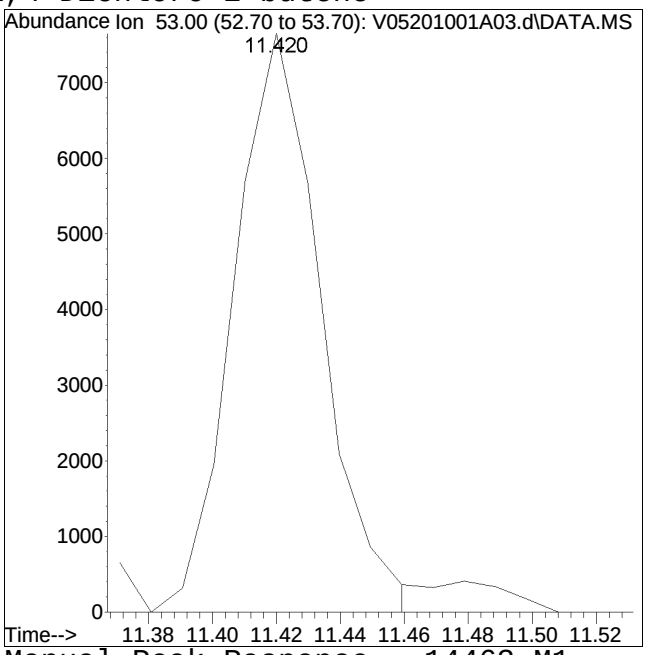
Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2020\2QMethod : V105_200930N_8260.m
Data File : V05201001A03.d Operator : VOA105:PD
Date Inj'd : 10/1/2020 12:52 pm Instrument : VOA 105
Sample : C8260STDL10PPB Quant Date : 10/1/2020 1:12 pm

Compound #92: trans-1,4-Dichloro-2-butene



Original Peak Response = 15194



Manual Peak Response = 14463 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Response Factor Report VOA 108

Method Path : I:\VOLATILES\VOA108\2020\201013A\
Method File : V108_201013A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Oct 14 11:43:29 2020
Response Via : Initial Calibration

Calibration Files
L11 =V08201013A04.d L1 =V08201013A06.d L2 =V08201013A08.d L3 =V08201013A09.d L4 =V08201013A10.d
L6 =V08201013A11.d L8 =V08201013A12.d L10 =V08201013A13.d

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	ISTD									
2)	TP	Dichlorodifluo...		0.196	0.248	0.291	0.296	0.302	0.303	0.306	0.277	14.76
3)	TP	Chloromethane		0.243	0.269	0.260	0.253	0.261	0.254	0.257	0.257	3.11
4)	TC	Vinyl chloride	0.240	0.187	0.251	0.300	0.291	0.300	0.297	0.300	0.271	15.34
5)	TP	Bromomethane		0.158	0.176	0.157	0.168	0.176	0.191	0.201	0.175	9.29
6)	TP	Chloroethane		0.184	0.219	0.229	0.219	0.209	0.211	0.213	0.212	6.61
7)	TP	Trichlorofluor...		0.265	0.396	0.453	0.458	0.477	0.481	0.452	0.426	17.93
8)	TP	Ethyl ether		0.117	0.125	0.136	0.127	0.136	0.140	0.140	0.131	6.51
10)	TC	1,1-Dichloroet...		0.187	0.218	0.221	0.224	0.232	0.231	0.235	0.221	7.38
11)	TP	Carbon disulfide		0.389	0.508	0.553	0.565	0.586	0.585	0.594	0.540	13.45
12)	TP	Freon-113		0.129	0.171	0.222	0.222	0.228	0.226	0.232	0.204	19.12
13)	TP	Iodomethane		0.190	0.249	0.299	0.315	0.347	0.346	0.346	0.299	19.91
14)	TP	Acrolein		0.038	0.031	0.029	0.027	0.028	0.030	0.031	0.031#	11.61
15)	TP	Methylene chlo...		0.284	0.262	0.270	0.251	0.259	0.261	0.261	0.264	3.97
17)	TP	Acetone			0.060	0.056	0.052	0.053	0.054	0.055	0.055#	5.35
18)	TP	trans-1,2-Dich...		0.192	0.234	0.242	0.233	0.241	0.238	0.240	0.231	7.63
19)	TP	Methyl acetate		0.135	0.113	0.119	0.119	0.129	0.136	0.138	0.127	7.89
20)	TP	Methyl tert-bu...		0.545	0.667	0.682	0.659	0.671	0.682	0.683	0.656	7.54
21)	TP	tert-Butyl alc...		0.026	0.024	0.025	0.023	0.024	0.024	0.024	0.024#	3.67
22)	TP	Diisopropyl ether		0.630	0.735	0.752	0.745	0.757	0.764	0.768	0.736	6.51
23)	TP	1,1-Dichloroet...		0.337	0.451	0.462	0.445	0.459	0.461	0.464	0.440	10.40
24)	TP	Halothane		0.143	0.181	0.193	0.185	0.192	0.189	0.190	0.182	9.73
25)	TP	Acrylonitrile		0.087	0.069	0.073	0.068	0.070	0.070	0.071	0.072	8.94
26)	TP	Ethyl tert-but...		0.659	0.714	0.756	0.744	0.765	0.771	0.780	0.741	5.68
27)	TP	Vinyl acetate			0.150	0.318	0.372	0.443	0.426	0.495	*L	0.9934
28)	TP	cis-1,2-Dichlo...		0.248	0.284	0.307	0.289	0.295	0.296	0.298	0.288	6.62
29)	TP	2,2-Dichloropr...		0.365	0.367	0.388	0.377	0.380	0.374	0.374	0.375	2.14
30)	TP	Bromochloromet...		0.107	0.124	0.135	0.128	0.128	0.130	0.128	0.126	7.08
31)	TP	Cyclohexane		0.318	0.382	0.397	0.388	0.399	0.392	0.398	0.382	7.55
32)	TC	Chloroform		0.416	0.465	0.471	0.452	0.465	0.462	0.465	0.457	4.11
33)	TP	Ethyl acetate		0.155	0.206	0.216	0.212	0.215	0.197	0.197	0.200	10.61

Response Factor Report VOA 108

Method Path : I:\VOLATILES\VOA108\2020\201013A\
Method File : V108_201013A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Oct 14 11:43:29 2020
Response Via : Initial Calibration

Calibration Files
L11 =V08201013A04.d L1 =V08201013A06.d L2 =V08201013A08.d L3 =V08201013A09.d L4 =V08201013A10.d
L6 =V08201013A11.d L8 =V08201013A12.d L10 =V08201013A13.d

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
34)	TP	Carbon tetrach...	0.267	0.214	0.304	0.334	0.320	0.340	0.331	0.335	0.305	14.38
35)	TP	Tetrahydrofuran		0.087	0.069	0.068	0.051	0.056	0.056	*L		0.9954
36)	S	Dibromofluorom...	0.246	0.250	0.247	0.253	0.248	0.259	0.253	0.251	0.251	1.65
37)	TP	1,1,1-Trichlor...		0.281	0.377	0.412	0.412	0.423	0.418	0.418	0.392	13.07
39)	TP	2-Butanone			0.084	0.093	0.089	0.091	0.099	0.096	0.092#	5.68
40)	TP	1,1-Dichloropr...		0.227	0.303	0.333	0.340	0.347	0.345	0.347	0.320	13.77
41)	TP	Benzene	0.918	0.866	0.982	1.009	0.995	1.018	1.009	1.014	0.976	5.64
42)	TP	tert-Amyl meth...		0.606	0.699	0.735	0.715	0.739	0.743	0.745	0.712	6.94
43)	S	1,2-Dichloroet...	0.305	0.308	0.310	0.280	0.281	0.287	0.281	0.285	0.292	4.53
44)	TP	1,2-Dichloroet...		0.275	0.350	0.342	0.331	0.348	0.350	0.351	0.335	8.24
47)	TP	Methyl cyclohe...		0.269	0.370	0.413	0.417	0.432	0.427	0.431	0.394	14.97
48)	TP	Trichloroethene	0.252	0.216	0.276	0.272	0.271	0.276	0.278	0.277	0.265	8.04
50)	TP	Dibromomethane		0.131	0.161	0.168	0.165	0.170	0.172	0.173	0.163	9.02
51)	TC	1,2-Dichloropr...		0.197	0.265	0.262	0.255	0.264	0.264	0.265	0.253	9.84
53)	TP	2-Chloroethyl ...		0.106	0.132	0.150	0.137	0.148	0.166	0.169	0.144	14.99
54)	TP	Bromodichlorom...		0.298	0.356	0.371	0.370	0.382	0.383	0.385	0.363	8.44
57)	TP	1,4-Dioxane		0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002#	4.94
58)	TP	cis-1,3-Dichlo...		0.360	0.425	0.435	0.437	0.456	0.458	0.464	0.433	8.22
59)	I	Chlorobenzene-d5	----------ISTD----------									
60)	S	Toluene-d8	1.324	1.344	1.352	1.322	1.315	1.308	1.305	1.309	1.322	1.31
61)	TC	Toluene		0.746	0.895	0.882	0.871	0.888	0.884	0.896	0.866	6.18
62)	TP	4-Methyl-2-pen...		0.102	0.119	0.121	0.118	0.119	0.120	0.118	0.117	5.54
63)	TP	Tetrachloroethene		0.398	0.548	0.589	0.575	0.554	0.631	0.538	0.548	13.34
65)	TP	trans-1,3-Dich...		0.446	0.541	0.545	0.550	0.569	0.573	0.581	0.544	8.42
67)	TP	Ethyl methacry...		0.419	0.441	0.425	0.429	0.441	0.441	0.442	0.434	2.19
68)	TP	1,1,2-Trichlor...		0.236	0.281	0.265	0.263	0.267	0.267	0.266	0.264	5.20
69)	TP	Chlorodibromom...		0.309	0.358	0.361	0.364	0.371	0.374	0.368	0.358	6.17
70)	TP	1,3-Dichloropr...		0.499	0.538	0.540	0.528	0.535	0.536	0.533	0.530	2.63
71)	TP	1,2-Dibromoethane		0.265	0.320	0.315	0.312	0.319	0.318	0.315	0.309	6.36
72)	TP	2-Hexanone		0.180	0.221	0.207	0.212	0.213	0.217	0.211	0.209	6.44
73)	TP	Chlorobenzene		0.810	0.974	0.947	0.935	0.949	0.939	0.942	0.928	5.78

Method Path : I:\VOLATILES\VOA108\2020\201013A\
Method File : V108_201013A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Oct 14 11:43:29 2020
Response Via : Initial Calibration

Calibration Files
L11 =V08201013A04.d L1 =V08201013A06.d L2 =V08201013A08.d L3 =V08201013A09.d L4 =V08201013A10.d
L6 =V08201013A11.d L8 =V08201013A12.d L10 =V08201013A13.d

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
74)	TC	Ethylbenzene		1.401	1.659	1.689	1.672	1.691	1.660	1.657	1.633	6.32
75)	TP	1,1,1,2-Tetrac...		0.294	0.360	0.365	0.362	0.369	0.368	0.365	0.355	7.56
76)	TP	p/m Xylene		0.509	0.645	0.649	0.642	0.648	0.638	0.644	0.625	8.19
77)	TP	o Xylene		0.479	0.613	0.605	0.597	0.602	0.592	0.595	0.583	7.98
78)	TP	Styrene		0.760	0.984	1.018	1.031	1.053	1.040	1.023	0.987	10.39
79)	I	1,4-Dichlorobenzene-d4	----------ISTD----------									
80)	TP	Bromoform		0.410	0.480	0.455	0.484	0.533	0.534	0.548	0.492	10.12
82)	TP	Isopropylbenzene		2.472	3.199	3.112	3.138	3.406	3.215	3.152	3.099	9.46
83)	S	4-Bromofluorob...	0.964	0.975	0.946	0.923	0.931	0.997	0.970	0.962	0.958	2.52
84)	TP	Bromobenzene		0.667	0.820	0.773	0.789	0.852	0.823	0.825	0.793	7.71
85)	TP	n-Propylbenzene		2.968	3.743	3.600	3.721	4.034	3.784	3.742	3.656	9.03
86)	TP	1,4-Dichlorobu...		0.935	0.934	0.858	0.887	0.959	0.938	0.931	0.920	3.79
87)	TP	1,1,2,2-Tetrac...		0.675	0.804	0.700	0.716	0.770	0.740	0.747	0.736	5.90
88)	TP	4-Ethyltoluene		2.292	3.002	2.862	2.962	3.175	2.995	2.964	2.893	9.71
89)	TP	2-Chlorotoluene		2.137	2.594	2.443	2.502	2.696	2.554	2.558	2.497	7.10
90)	TP	1,3,5-Trimethy...		2.141	2.717	2.548	2.645	2.789	2.638	2.628	2.587	8.14
91)	TP	1,2,3-Trichlor...		0.629	0.608	0.556	0.586	0.625	0.622	0.627	0.608	4.52
92)	TP	trans-1,4-Dich...		0.167	0.205	0.191	0.198	0.219	0.206	0.195	0.197	8.24
93)	TP	4-Chlorotoluene		1.963	2.292	2.229	2.278	2.419	2.279	2.261	2.246	6.16
94)	TP	tert-Butylbenzene		1.954	2.493	2.253	2.357	2.510	2.246	2.355	2.310	8.13
95)	TP	Pentachloroethane		0.248	0.260	0.183	0.218	0.272			0.236	15.28
97)	TP	1,2,4-Trimethy...		2.139	2.708	2.527	2.607	2.734	2.571	2.560	2.549	7.72
98)	TP	sec-Butylbenzene		2.393	3.251	3.016	3.152	3.242	3.041	2.950	3.007	9.77
99)	TP	p-Isopropyltol...		2.090	2.769	2.685	2.780	2.878	2.704	2.684	2.656	9.75
100)	TP	1,3-Dichlorobe...		1.220	1.510	1.434	1.471	1.542	1.483	1.490	1.450	7.36
101)	TP	1,4-Dichlorobe...		1.348	1.562	1.481	1.512	1.573	1.503	1.524	1.500	4.98
102)	TP	p-Diethylbenzene		1.247	1.648	1.512	1.577	1.662	1.564	1.583	1.542	9.05
103)	TP	n-Butylbenzene		2.291	2.694	2.543	2.632	2.758	2.570	2.557	2.578	5.77
104)	TP	1,2-Dichlorobe...		1.248	1.508	1.387	1.397	1.456	1.407	1.427	1.404	5.71
105)	TP	1,2,4,5-Tetram...		2.086	2.551	2.437	2.549	2.727	2.626	2.661	2.519	8.43
106)	TP	1,2-Dibromo-3-...		0.079	0.134	0.118	0.124	0.134	0.136	0.141	0.124	17.05

Method Path : I:\VOLATILES\VOA108\2020\201013A\
Method File : V108_201013A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Oct 14 11:43:29 2020
Response Via : Initial Calibration

Calibration Files
L11 =V08201013A04.d L1 =V08201013A06.d L2 =V08201013A08.d L3 =V08201013A09.d L4 =V08201013A10.d
L6 =V08201013A11.d L8 =V08201013A12.d L10 =V08201013A13.d

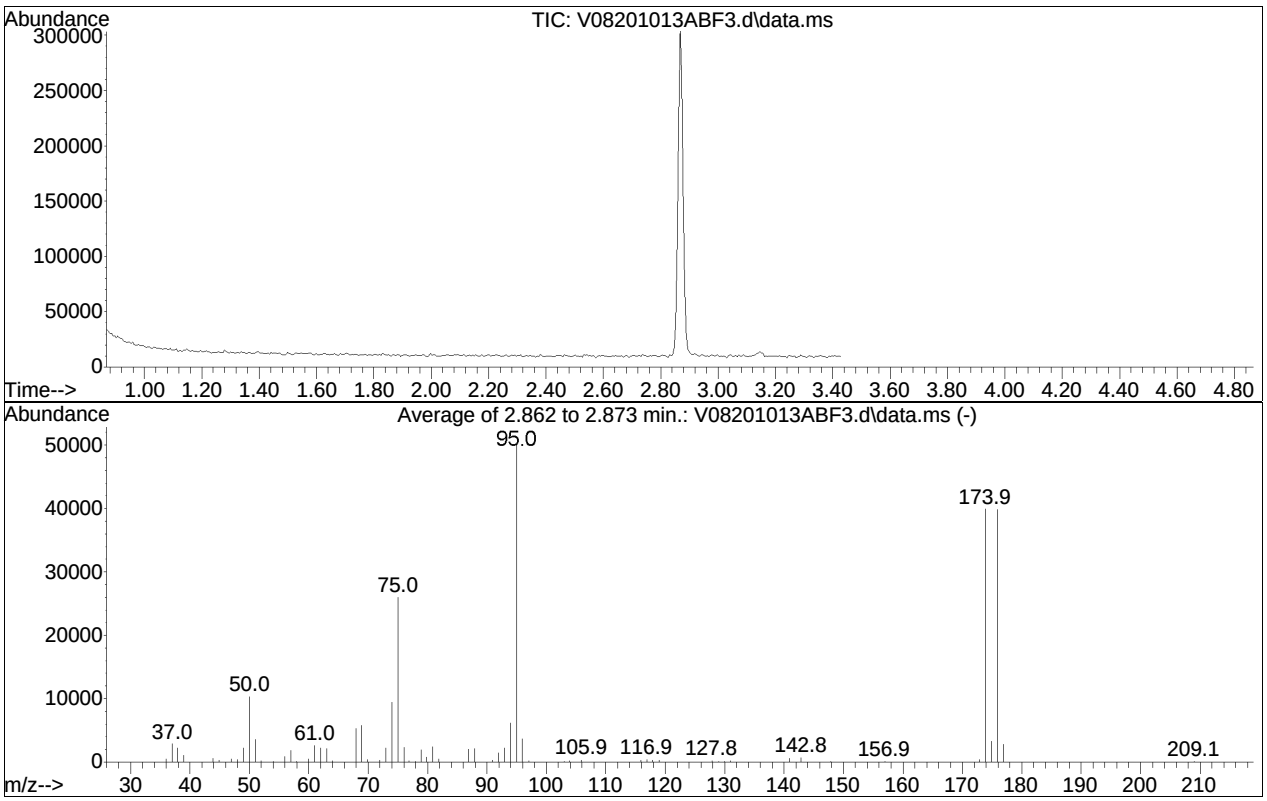
	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
107) TP	1,3,5-Trichlor...	0.832	1.115	1.016	1.048	1.128	1.095	1.125	1.051	10.04	
108) TP	Hexachlorobuta...	0.401	0.478	0.453	0.468	0.494	0.464	0.497	0.465	6.97	
109) TP	1,2,4-Trichlor...	0.861	1.052	0.973	0.996	1.098	1.069	1.107	1.022	8.48	
110) TP	Naphthalene	2.062	2.328	2.127	2.256	2.473	2.459	2.446	2.307	7.19	
111) TP	1,2,3-Trichlor...	0.798	0.975	0.896	0.936	1.038	1.005	1.028	0.954	8.94	

(#) = Out of Range

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013ABF3.d
Acq On : 13 Oct 2020 1:18 pm
Operator : VOA108:PD
Sample : WG1422060-1
Misc : WG1422060
ALS Vial : 3 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA108\2020\201014A\V108_201013A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Oct 14 11:43:29 2020



AutoFind: Scans 434, 435, 436; Background Corrected with Scan 425

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.5	10309	PASS
75	95	30	60	51.6	26003	PASS
95	95	100	100	100.0	50397	PASS
96	95	5	9	7.4	3710	PASS
173	174	0.00	2	1.0	410	PASS
174	95	50	100	79.3	39963	PASS
175	174	5	9	8.2	3273	PASS
176	174	95	101	99.6	39819	PASS
177	176	5	9	7.2	2866	PASS

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A04.d
Acq On : 13 Oct 2020 3:01 pm
Operator : VOA108:PD
Sample : I8260STDL0.19PPB
Misc : WG1422060
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 14 11:46:23 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:44:03 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201013A\V08201013A09.d
Sub List : 8260-L11 -

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.389	96	234943	10.000 ug/L	0.00
Standard Area 1 = 229151			Recovery = 102.53%		
59) Chlorobenzene-d5	8.420	117	165351	10.000 ug/L	0.00
Standard Area 1 = 167273			Recovery = 98.85%		
79) 1,4-Dichlorobenzene-d4	9.914	152	82584	10.000 ug/L	0.00
Standard Area 1 = 90544			Recovery = 91.21%		
System Monitoring Compounds					
36) Dibromofluoromethane	4.393	113	57718	9.796 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.96%		
43) 1,2-Dichloroethane-d4	5.038	65	71773	10.454 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.54%		
60) Toluene-d8	7.099	98	218946	10.014 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.14%		
83) 4-Bromofluorobenzene	9.243	95	79642	10.061 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.61%		
Target Compounds					Qvalue
4) Vinyl chloride	1.101	62	1070	0.168 ug/L	84
34) Carbon tetrachloride	4.267	117	1190	0.166 ug/L #	32
41) Benzene	4.860	78	4096M1	0.179 ug/L	
48) Trichloroethene	5.589	95	1127	0.181 ug/L #	85

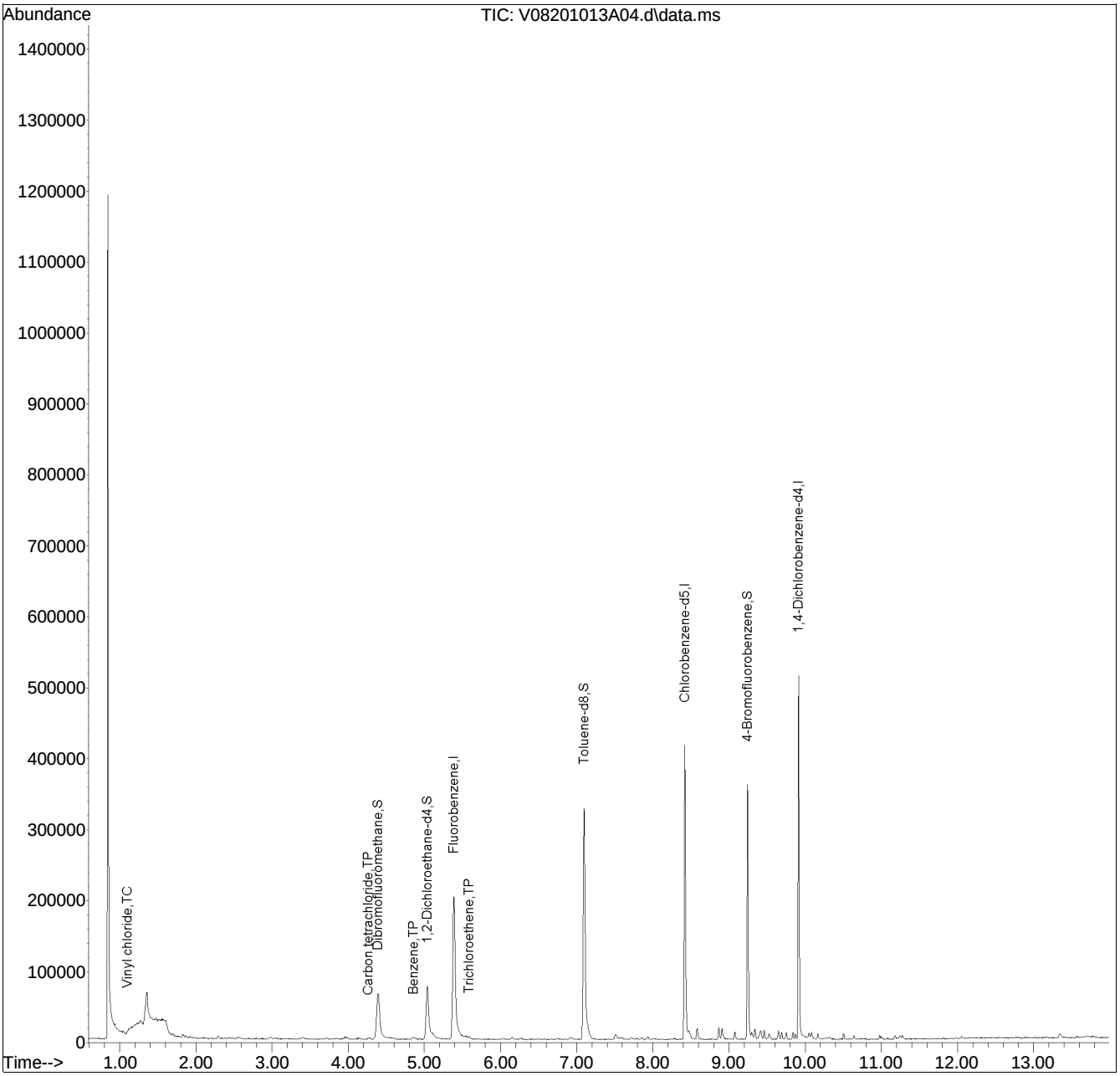
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A04.d
Acq On : 13 Oct 2020 3:01 pm
Operator : VOA108:PD
Sample : I8260STDL0.19PPB
Misc : WG1422060
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 14 11:46:23 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:44:03 2020
Response via : Initial Calibration

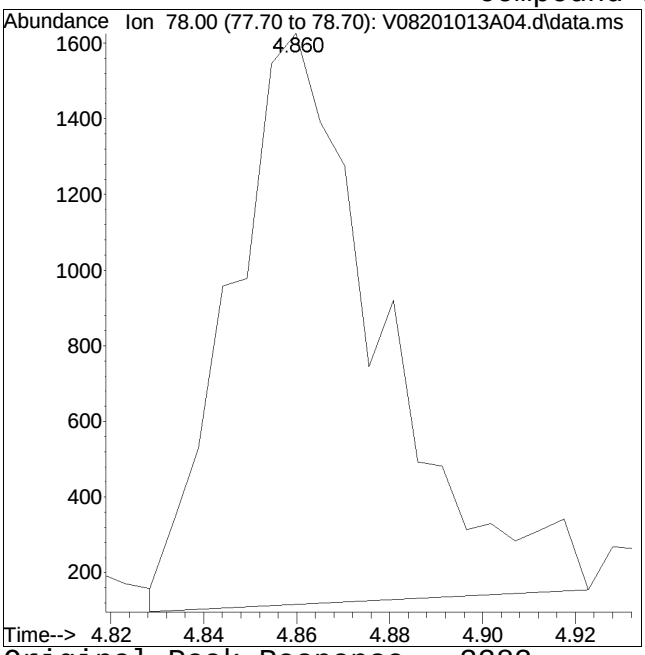
Sub List : 8260-L11 - ILES\VOA108\2020\201013A\V08201013A09.d•



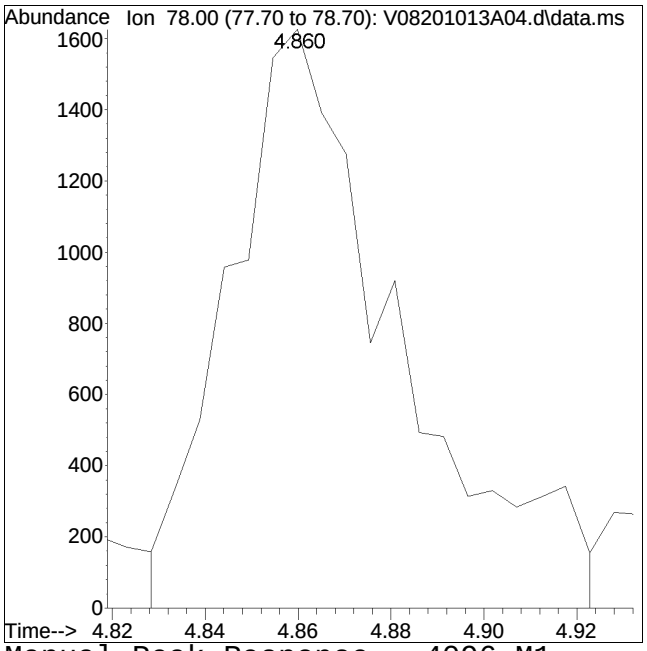
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A04.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 3:01 pm Instrument : VOA 108
Sample : I8260STDL0.19PPB Quant Date : 10/14/2020 11:46 am

Compound #41: Benzene



Original Peak Response = 3383



Manual Peak Response = 4096 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A06.d
Acq On : 13 Oct 2020 3:45 pm
Operator : VOA108:PD
Sample : I8260STDL0.5PPB
Misc : WG1422060
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 14 11:46:31 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:44:03 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201013A\V08201013A09.d
Sub List : 8260-CurvePenta - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.389	96	230391	10.000	ug/L	0.00
Standard Area 1 = 229151			Recovery = 100.54%			
59) Chlorobenzene-d5	8.420	117	162680	10.000	ug/L	0.00
Standard Area 1 = 167273			Recovery = 97.25%			
79) 1,4-Dichlorobenzene-d4	9.914	152	81240	10.000	ug/L	0.00
Standard Area 1 = 90544			Recovery = 89.72%			
System Monitoring Compounds						
36) Dibromofluoromethane	4.393	113	57485	9.949	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.49%			
43) 1,2-Dichloroethane-d4	5.038	65	70989	10.544	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.44%			
60) Toluene-d8	7.099	98	218705	10.167	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.67%			
83) 4-Bromofluorobenzene	9.243	95	79198	10.171	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.71%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.933	85	2261	0.354	ug/L	99
3) Chloromethane	1.048	50	2799	0.473	ug/L	89
4) Vinyl chloride	1.101	62	2154	0.345	ug/L	92
5) Bromomethane	1.300	94	1816	0.450	ug/L	87
6) Chloroethane	1.379	64	2118	0.434	ug/L #	34
7) Trichlorofluoromethane	1.473	101	3048	0.311	ug/L #	80
8) Ethyl ether	1.704	74	1348	0.445	ug/L #	65
10) 1,1-Dichloroethene	1.824	96	2149	0.422	ug/L #	48
11) Carbon disulfide	1.835	76	4485	0.360	ug/L #	64
12) Freon-113	1.871	101	1487	0.316	ug/L	97
13) Iodomethane	1.924	142	2190	0.318	ug/L	82
14) Acrolein	2.092	56	440M2	0.622	ug/L	
15) Methylene chloride	2.296	84	3271	0.538	ug/L	67
17) Acetone	2.354	43	1450	1.145	ug/L #	68
18) trans-1,2-Dichloroethene	2.432	96	2214	0.415	ug/L	66
19) Methyl acetate	2.480	43	1560	0.533	ug/L #	85
20) Methyl tert-butyl ether	2.569	73	6282	0.416	ug/L	88
21) tert-Butyl alcohol	2.705	59	1496	2.663	ug/L #	46
22) Diisopropyl ether	2.978	45	7261	0.428	ug/L #	91
23) 1,1-Dichloroethane	3.051	63	3886	0.383	ug/L	87
24) Halothane	3.193	117	1645	0.393	ug/L #	66

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A06.d
Acq On : 13 Oct 2020 3:45 pm
Operator : VOA108:PD
Sample : I8260STDL0.5PPB
Misc : WG1422060
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 14 11:46:31 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:44:03 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201013A\V08201013A09.d
Sub List : 8260-CurvePenta - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	3.130	53	1000	0.599	ug/L	#	70
26) Ethyl tert-butyl ether	3.413	59	7593	0.445	ug/L	#	60
27) Vinyl acetate	3.408	43	408	1.949	ug/L	#	81
28) cis-1,2-Dichloroethene	3.722	96	2857	0.430	ug/L	#	54
29) 2,2-Dichloropropane	3.848	77	4203	0.486	ug/L	#	83
30) Bromochloromethane	3.990	128	1232	0.425	ug/L	#	45
31) Cyclohexane	3.948	56	3667	0.416	ug/L		88
32) Chloroform	4.152	83	4793	0.456	ug/L	#	89
33) Ethyl acetate	4.399	43	1785M1	0.388	ug/L		
34) Carbon tetrachloride	4.273	117	2468	0.351	ug/L	#	89
35) Tetrahydrofuran	4.362	42	1630	Below Cal		#	61
37) 1,1,1-Trichloroethane	4.367	97	3235	0.358	ug/L	#	76
39) 2-Butanone	4.587	43	546M1	0.258	ug/L		
40) 1,1-Dichloropropene	4.540	75	2612	0.354	ug/L	#	74
41) Benzene	4.855	78	9978	0.444	ug/L	#	89
42) tert-Amyl methyl ether	5.096	73	6985	0.426	ug/L	#	75
44) 1,2-Dichloroethane	5.127	62	3165	0.410	ug/L		80
47) Methyl cyclohexane	5.547	83	3103	0.342	ug/L		83
48) Trichloroethene	5.594	95	2492	0.408	ug/L		91
50) Dibromomethane	6.034	93	1508	0.402	ug/L		88
51) 1,2-Dichloropropane	6.150	63	2273	0.389	ug/L		96
53) 2-Chloroethyl vinyl ether	6.915	63	1223	0.369	ug/L		90
54) Bromodichloromethane	6.265	83	3430	0.410	ug/L	#	96
57) 1,4-Dioxane	6.490	88	4647	91.917	ug/L	#	68
58) cis-1,3-Dichloropropene	6.920	75	4142	0.415	ug/L		93
61) Toluene	7.146	92	6068	0.431	ug/L		95
62) 4-Methyl-2-pentanone	7.565	58	832	0.438	ug/L	#	67
63) Tetrachloroethene	7.513	166	3234	0.363	ug/L		83
65) trans-1,3-Dichloropropene	7.591	75	3625	0.410	ug/L	#	77
67) Ethyl methacrylate	7.785	69	3411	0.483	ug/L		80
68) 1,1,2-Trichloroethane	7.717	83	1917	0.447	ug/L	#	86
69) Chlorodibromomethane	7.854	129	2517	0.432	ug/L		98
70) 1,3-Dichloropropane	7.938	76	4062	0.471	ug/L	#	79
71) 1,2-Dibromoethane	8.016	107	2155	0.429	ug/L		93
72) 2-Hexanone	8.268	43	1463	0.431	ug/L	#	75
73) Chlorobenzene	8.430	112	6588	0.436	ug/L	#	85
74) Ethylbenzene	8.472	91	11395	0.429	ug/L		94
75) 1,1,1,2-Tetrachloroethane	8.493	131	2393	0.415	ug/L	#	82
76) p/m Xylene	8.582	106	8285	0.815	ug/L		94
77) o Xylene	8.866	106	7792	0.821	ug/L		88

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A06.d
Acq On : 13 Oct 2020 3:45 pm
Operator : VOA108:PD
Sample : I8260STDL0.5PPB
Misc : WG1422060
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 14 11:46:31 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:44:03 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201013A\V08201013A09.d
Sub List : 8260-CurvePenta - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	8.908	104	12356	0.770	ug/L		99
80) Bromoform	8.913	173	1664	0.416	ug/L		85
82) Isopropylbenzene	9.081	105	10041	0.399	ug/L		94
84) Bromobenzene	9.301	156	2710	0.421	ug/L		97
85) n-Propylbenzene	9.337	91	12058	0.406	ug/L		99
86) 1,4-Dichlorobutane	9.343	55	3797	0.508	ug/L		97
87) 1,1,2,2-Tetrachloroethane	9.390	83	2742	0.458	ug/L		100
88) 4-Ethyltoluene	9.411	105	9309	0.396	ug/L		95
89) 2-Chlorotoluene	9.421	91	8679	0.428	ug/L		97
90) 1,3,5-Trimethylbenzene	9.463	105	8696	0.414	ug/L		91
91) 1,2,3-Trichloropropane	9.458	75	2557	0.518	ug/L		91
92) trans-1,4-Dichloro-2-b...	9.510	53	677	0.423	ug/L	#	1
93) 4-Chlorotoluene	9.526	91	7973	0.437	ug/L		98
94) tert-Butylbenzene	9.647	119	7939	0.423	ug/L		99
95) Pentachloroethane	9.657	167	1008	0.525	ug/L	#	63
97) 1,2,4-Trimethylbenzene	9.689	105	8688	0.419	ug/L		95
98) sec-Butylbenzene	9.752	105	9719	0.398	ug/L		94
99) p-Isopropyltoluene	9.841	119	8488	0.393	ug/L	#	87
100) 1,3-Dichlorobenzene	9.872	146	4956	0.421	ug/L		97
101) 1,4-Dichlorobenzene	9.925	146	5474	0.449	ug/L	#	83
102) p-Diethylbenzene	10.051	119	5067	0.405	ug/L		91
103) n-Butylbenzene	10.082	91	9306	0.444	ug/L		91
104) 1,2-Dichlorobenzene	10.166	146	5071	0.445	ug/L		92
105) 1,2,4,5-Tetramethylben...	10.507	119	8474	0.414	ug/L		98
106) 1,2-Dibromo-3-chloropr...	10.622	155	322	0.320	ug/L	#	45
107) 1,3,5-Trichlorobenzene	10.638	180	3378	0.396	ug/L		90
108) Hexachlorobutadiene	10.979	225	1628	0.431	ug/L		92
109) 1,2,4-Trichlorobenzene	10.999	180	3496	0.421	ug/L		89
110) Naphthalene	11.178	128	8377	0.447	ug/L		100
111) 1,2,3-Trichlorobenzene	11.277	180	3241	0.418	ug/L		94

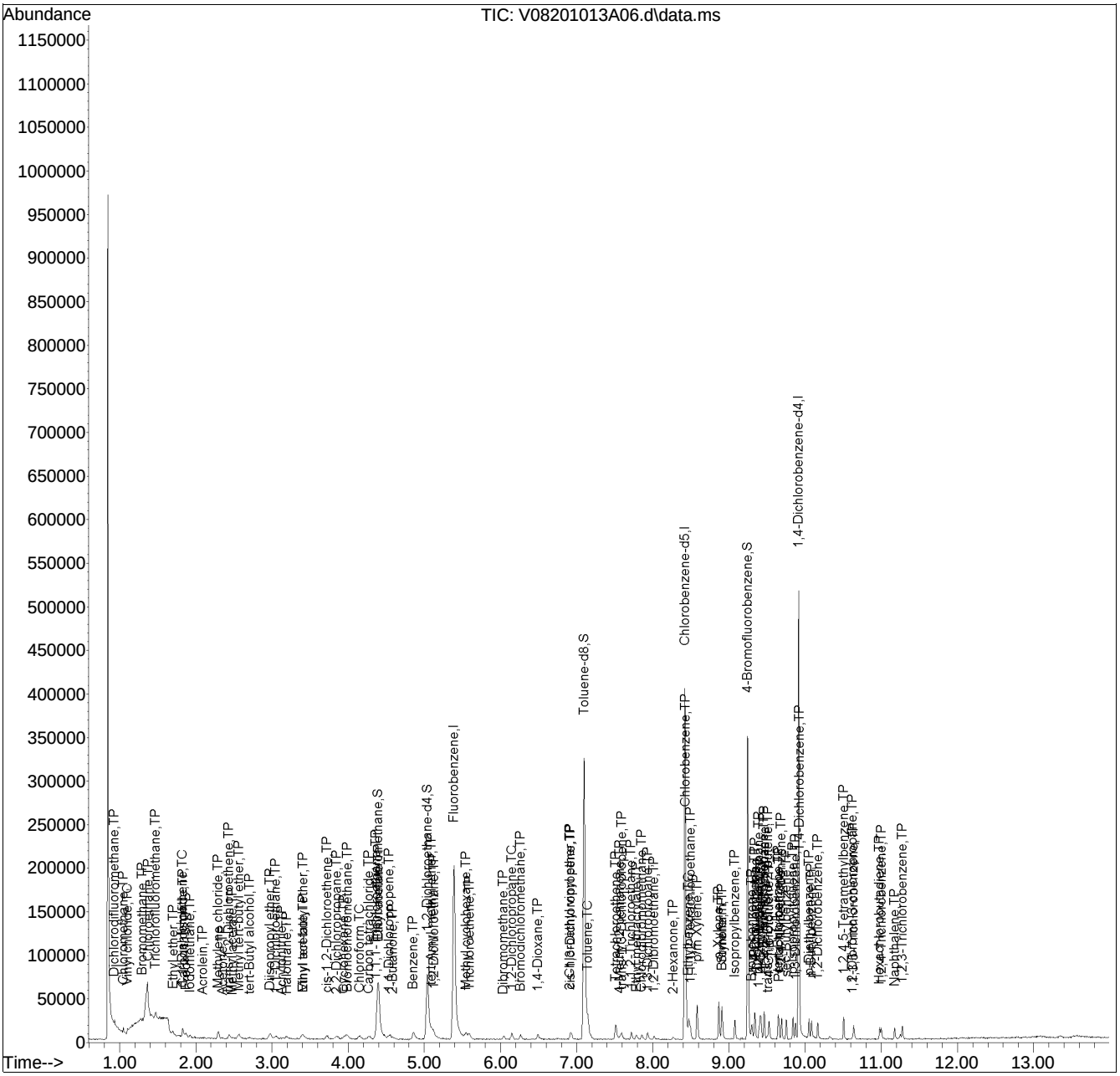
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A06.d
Acq On : 13 Oct 2020 3:45 pm
Operator : VOA108:PD
Sample : I8260STDL0.5PPB
Misc : WG1422060
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 14 11:46:31 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:44:03 2020
Response via : Initial Calibration

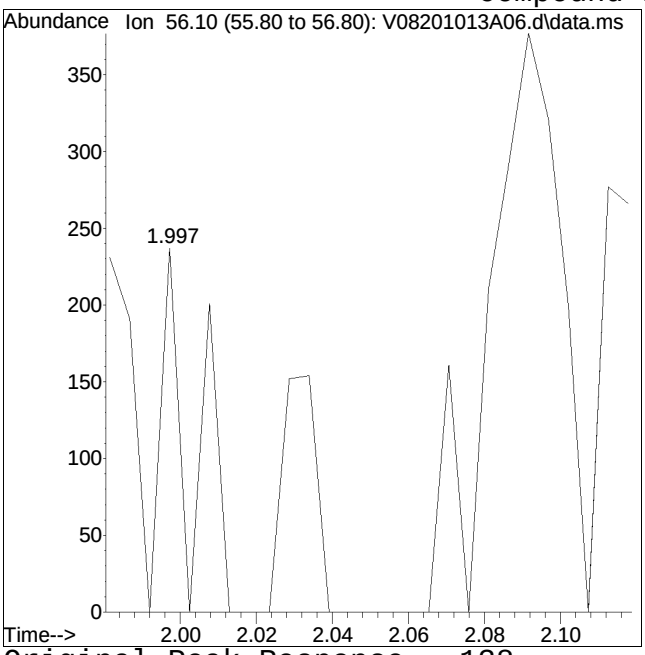
Sub List : 8260-CurvePenta - All compounds listed08201013A09.d•

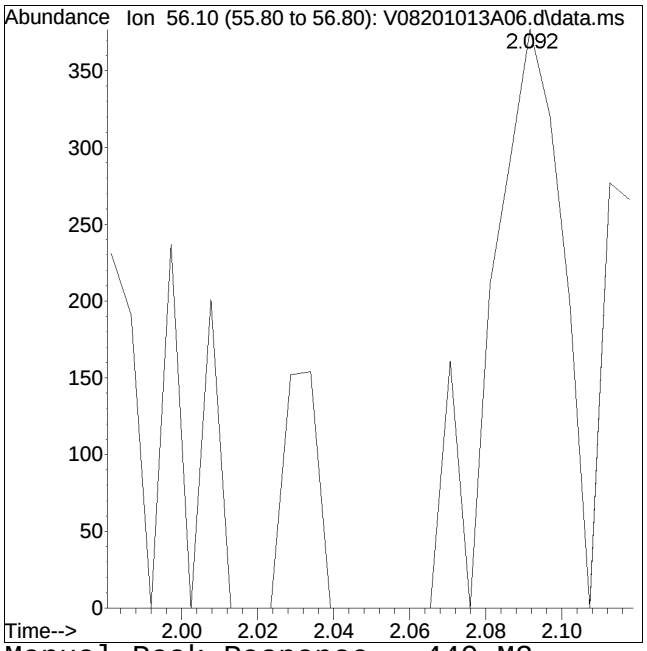


Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A06.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 3:45 pm Instrument : VOA 108
Sample : I8260STDL0.5PPB Quant Date : 10/14/2020 11:46 am

Compound #14: Acrolein



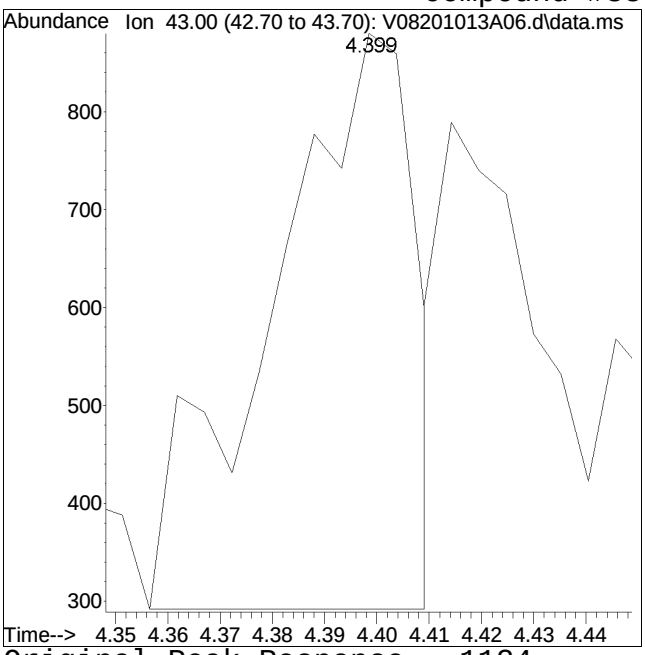


Original Peak Response = 138 Manual Peak Response = 440 M2
M2 = Peak not found by automatic integration algorithm.

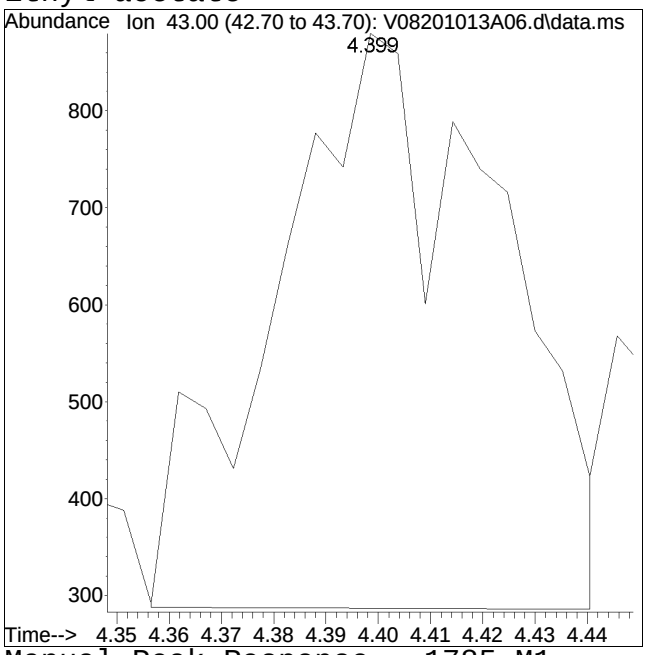
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A06.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 3:45 pm Instrument : VOA 108
Sample : I8260STDL0.5PPB Quant Date : 10/14/2020 11:46 am

Compound #33: Ethyl acetate



Original Peak Response = 1124



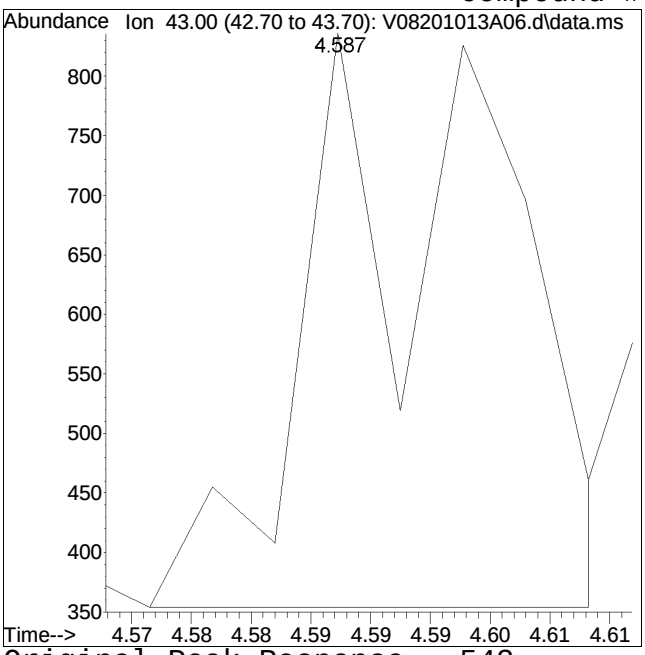
Manual Peak Response = 1785 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

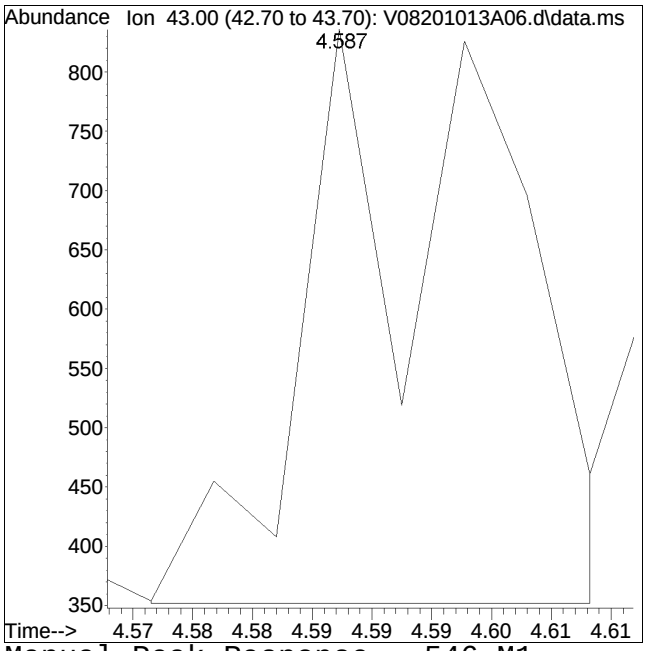
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A06.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 3:45 pm Instrument : VOA 108
Sample : I8260STDL0.5PPB Quant Date : 10/14/2020 11:46 am

Compound #39: 2-Butanone



Original Peak Response = 542



Manual Peak Response = 546 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A08.d
Acq On : 13 Oct 2020 4:29 pm
Operator : VOA108:PD
Sample : I8260STDL2PPB
Misc : WG1422060
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 14 11:46:39 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:44:03 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201013A\V08201013A09.d
Sub List : 8260-CurvePenta - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.389	96	226834	10.000	ug/L	0.00
Standard Area 1 = 229151			Recovery = 98.99%			
59) Chlorobenzene-d5	8.420	117	158510	10.000	ug/L	0.00
Standard Area 1 = 167273			Recovery = 94.76%			
79) 1,4-Dichlorobenzene-d4	9.914	152	81009	10.000	ug/L	0.00
Standard Area 1 = 90544			Recovery = 89.47%			
System Monitoring Compounds						
36) Dibromofluoromethane	4.398	113	56004	9.845	ug/L	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.45%			
43) 1,2-Dichloroethane-d4	5.043	65	70330	10.610	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.10%			
60) Toluene-d8	7.099	98	214252	10.222	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.22%			
83) 4-Bromofluorobenzene	9.243	95	76640	9.870	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.70%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.933	85	11240	1.786	ug/L	96
3) Chloromethane	1.048	50	12189	2.092	ug/L	97
4) Vinyl chloride	1.101	62	11369	1.852	ug/L	91
5) Bromomethane	1.300	94	7971	2.005	ug/L	98
6) Chloroethane	1.378	64	9945	2.069	ug/L	85
7) Trichlorofluoromethane	1.473	101	17962	1.859	ug/L	90
8) Ethyl ether	1.698	74	5684	1.907	ug/L #	68
10) 1,1-Dichloroethene	1.829	96	9904	1.975	ug/L #	53
11) Carbon disulfide	1.835	76	23034	1.880	ug/L	96
12) Freon-113	1.866	101	7761	1.676	ug/L	93
13) Iodomethane	1.924	142	11316	1.670	ug/L	85
14) Acrolein	2.092	56	1420	2.038	ug/L	85
15) Methylene chloride	2.296	84	11893	1.986	ug/L	67
17) Acetone	2.359	43	2722	2.182	ug/L #	78
18) trans-1,2-Dichloroethene	2.443	96	10633	2.025	ug/L	70
19) Methyl acetate	2.474	43	5136	1.782	ug/L #	77
20) Methyl tert-butyl ether	2.563	73	30256	2.035	ug/L	91
21) tert-Butyl alcohol	2.710	59	5480	9.908	ug/L #	42
22) Diisopropyl ether	2.972	45	33358	1.998	ug/L #	94
23) 1,1-Dichloroethane	3.051	63	20459M1	2.050	ug/L	
24) Halothane	3.187	117	8224M1	1.994	ug/L	

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A08.d
Acq On : 13 Oct 2020 4:29 pm
Operator : VOA108:PD
Sample : I8260STDL2PPB
Misc : WG1422060
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 14 11:46:39 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:44:03 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201013A\V08201013A09.d
Sub List : 8260-CurvePenta - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	3.119	53	3135	1.907	ug/L		97
26) Ethyl tert-butyl ether	3.402	59	32395M1	1.927	ug/L		
27) Vinyl acetate	3.418	43	6821	2.557	ug/L	#	86
28) cis-1,2-Dichloroethene	3.722	96	12867	1.969	ug/L	#	62
29) 2,2-Dichloropropane	3.848	77	16628M1	1.955	ug/L		
30) Bromochloromethane	3.979	128	5634	1.975	ug/L	#	52
31) Cyclohexane	3.963	56	17329M1	1.999	ug/L		
32) Chloroform	4.152	83	21073	2.035	ug/L		95
33) Ethyl acetate	4.398	43	9357	2.066	ug/L	#	86
34) Carbon tetrachloride	4.273	117	13777	1.989	ug/L		98
35) Tetrahydrofuran	4.357	42	3945M1	1.609	ug/L		
37) 1,1,1-Trichloroethane	4.372	97	17121	1.927	ug/L	#	96
39) 2-Butanone	4.598	43	3815	1.828	ug/L	#	52
40) 1,1-Dichloropropene	4.545	75	13747	1.892	ug/L		95
41) Benzene	4.860	78	44560	2.012	ug/L		89
42) tert-Amyl methyl ether	5.096	73	31706	1.964	ug/L	#	76
44) 1,2-Dichloroethane	5.122	62	15880	2.088	ug/L		99
47) Methyl cyclohexane	5.552	83	16808	1.879	ug/L	#	68
48) Trichloroethene	5.594	95	12527M1	2.085	ug/L		
50) Dibromomethane	6.040	93	7313M1	1.979	ug/L		
51) 1,2-Dichloropropane	6.150	63	12044	2.096	ug/L		93
53) 2-Chloroethyl vinyl ether	6.910	63	5991	1.834	ug/L	#	82
54) Bromodichloromethane	6.265	83	16165	1.961	ug/L		98
57) 1,4-Dioxane	6.485	88	20850	418.877	ug/L	#	70
58) cis-1,3-Dichloropropene	6.926	75	19274	1.960	ug/L		92
61) Toluene	7.146	92	28359	2.066	ug/L		100
62) 4-Methyl-2-pentanone	7.571	58	3769	2.036	ug/L	#	87
63) Tetrachloroethene	7.513	166	17386	2.003	ug/L		90
65) trans-1,3-Dichloropropene	7.586	75	17142	1.990	ug/L		100
67) Ethyl methacrylate	7.780	69	13989	2.032	ug/L		95
68) 1,1,2-Trichloroethane	7.717	83	8917	2.134	ug/L		97
69) Chlorodibromomethane	7.859	129	11344	1.999	ug/L		98
70) 1,3-Dichloropropane	7.932	76	17045	2.029	ug/L		97
71) 1,2-Dibromoethane	8.016	107	10149	2.071	ug/L		100
72) 2-Hexanone	8.263	43	7001	2.117	ug/L		98
73) Chlorobenzene	8.436	112	30888	2.099	ug/L		96
74) Ethylbenzene	8.472	91	52583	2.032	ug/L		98
75) 1,1,1,2-Tetrachloroethane	8.493	131	11413	2.031	ug/L		96
76) p/m Xylene	8.582	106	40912	4.129	ug/L		96
77) o Xylene	8.866	106	38891	4.207	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A08.d
Acq On : 13 Oct 2020 4:29 pm
Operator : VOA108:PD
Sample : I8260STDL2PPB
Misc : WG1422060
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 14 11:46:39 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:44:03 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201013A\V08201013A09.d
Sub List : 8260-CurvePenta - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78)	Styrene	8.902	104	62388	3.988	ug/L		93
80)	Bromoform	8.913	173	7775	1.951	ug/L		92
82)	Isopropylbenzene	9.075	105	51823	2.064	ug/L		98
84)	Bromobenzene	9.301	156	13293	2.070	ug/L		95
85)	n-Propylbenzene	9.337	91	60650	2.048	ug/L		97
86)	1,4-Dichlorobutane	9.343	55	15134	2.030	ug/L		99
87)	1,1,2,2-Tetrachloroethane	9.390	83	13031	2.185	ug/L		99
88)	4-Ethyltoluene	9.406	105	48636	2.075	ug/L		97
89)	2-Chlorotoluene	9.421	91	42027	2.077	ug/L		98
90)	1,3,5-Trimethylbenzene	9.463	105	44017	2.101	ug/L		92
91)	1,2,3-Trichloropropane	9.458	75	9858	2.002	ug/L		97
92)	trans-1,4-Dichloro-2-b...	9.500	53	3325	2.082	ug/L		89
93)	4-Chlorotoluene	9.521	91	37138	2.041	ug/L		91
94)	tert-Butylbenzene	9.647	119	40385	2.158	ug/L		96
95)	Pentachloroethane	9.657	167	4217	2.202	ug/L	#	84
97)	1,2,4-Trimethylbenzene	9.689	105	43870	2.124	ug/L		94
98)	sec-Butylbenzene	9.752	105	52665	2.162	ug/L		98
99)	p-Isopropyltoluene	9.841	119	44857	2.085	ug/L		96
100)	1,3-Dichlorobenzene	9.872	146	24470	2.083	ug/L		97
101)	1,4-Dichlorobenzene	9.925	146	25304	2.082	ug/L		96
102)	p-Diethylbenzene	10.050	119	26700	2.138	ug/L		92
103)	n-Butylbenzene	10.082	91	43642	2.090	ug/L		96
104)	1,2-Dichlorobenzene	10.166	146	24428	2.147	ug/L		97
105)	1,2,4,5-Tetramethylben...	10.507	119	41332	2.025	ug/L		99
106)	1,2-Dibromo-3-chloropr...	10.617	155	2178	2.170	ug/L		98
107)	1,3,5-Trichlorobenzene	10.632	180	18071	2.122	ug/L		93
108)	Hexachlorobutadiene	10.978	225	7750	2.057	ug/L		96
109)	1,2,4-Trichlorobenzene	10.994	180	17038	2.057	ug/L		99
110)	Naphthalene	11.172	128	37720	2.018	ug/L		100
111)	1,2,3-Trichlorobenzene	11.277	180	15790	2.044	ug/L		98

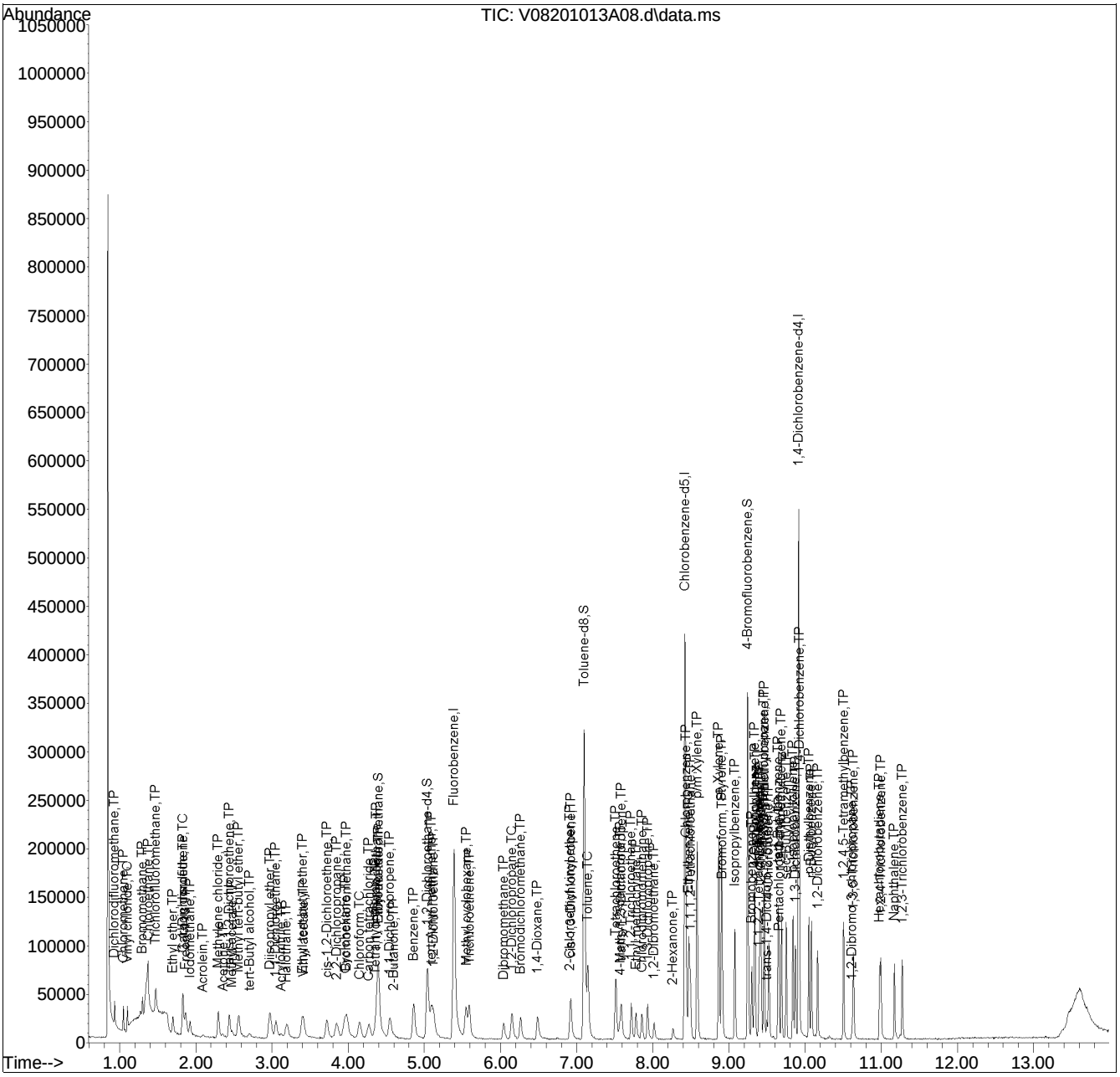
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A08.d
Acq On : 13 Oct 2020 4:29 pm
Operator : VOA108:PD
Sample : I8260STDL2PPB
Misc : WG1422060
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 14 11:46:39 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:44:03 2020
Response via : Initial Calibration

Sub List : 8260-CurvePenta - All compounds listed08201013A09.d•

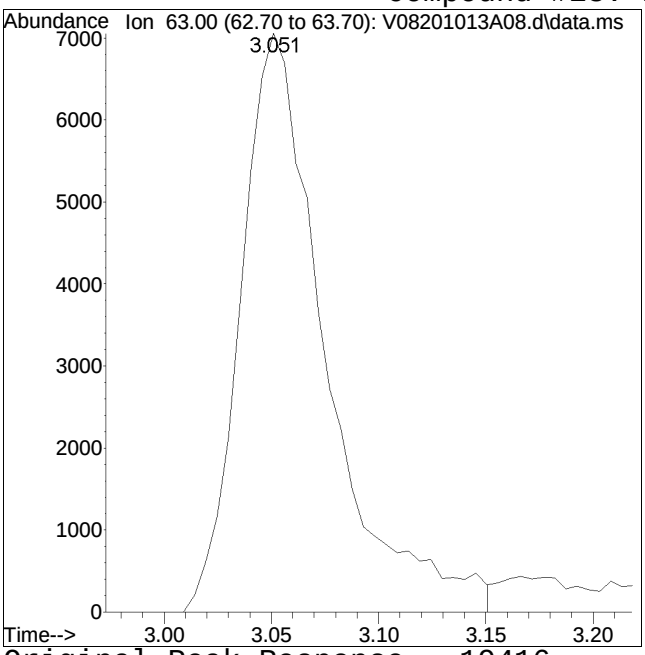


Manual Integration Report

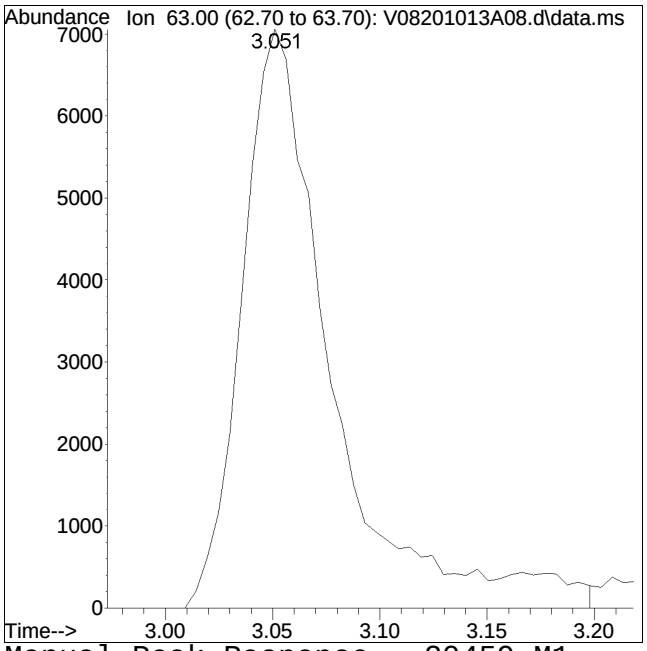
Data Path : I:\VOLATILES\VOA108\2020\2Q
Data File : V08201013A08.d
Date Inj'd : 10/13/2020 4:29 pm
Sample : I8260STDL2PPB

Method : V108_201013A_8260.m
Operator : VOA108:PD
Instrument : VOA 108
Quant Date : 10/14/2020 11:46 am

Compound #23: 1,1-Dichloroethane



Original Peak Response = 19416



Manual Peak Response = 20459 M1

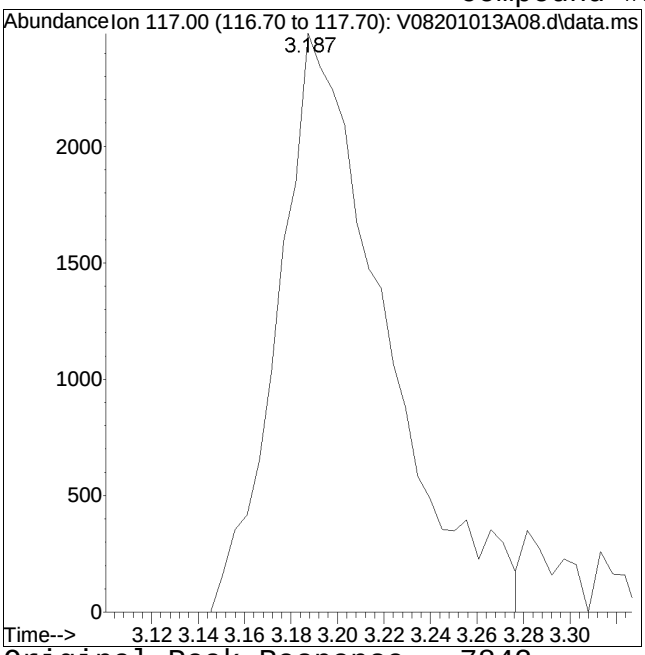
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

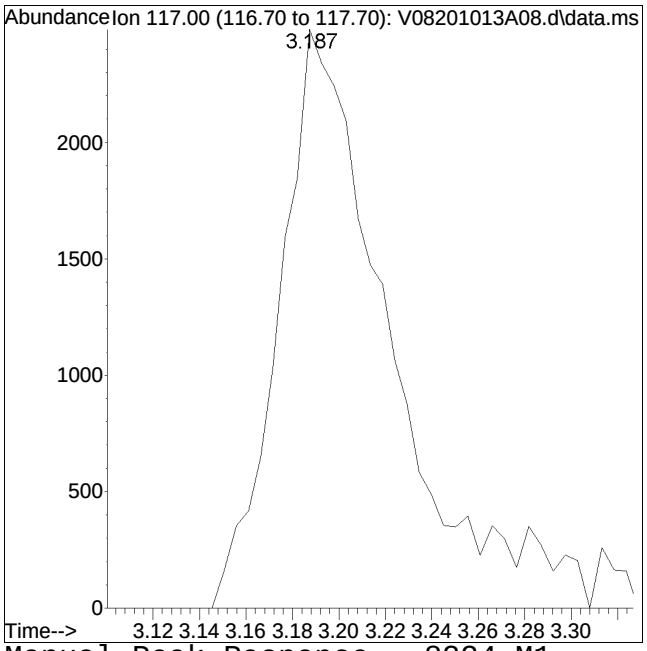
Data Path : I:\VOLATILES\VOA108\2020\2Q
Data File : V08201013A08.d
Date Inj'd : 10/13/2020 4:29 pm
Sample : I8260STDL2PPB

Method : V108_201013A_8260.m
Operator : VOA108:PD
Instrument : VOA 108
Quant Date : 10/14/2020 11:46 am

Compound #24: Halothane



Original Peak Response = 7842



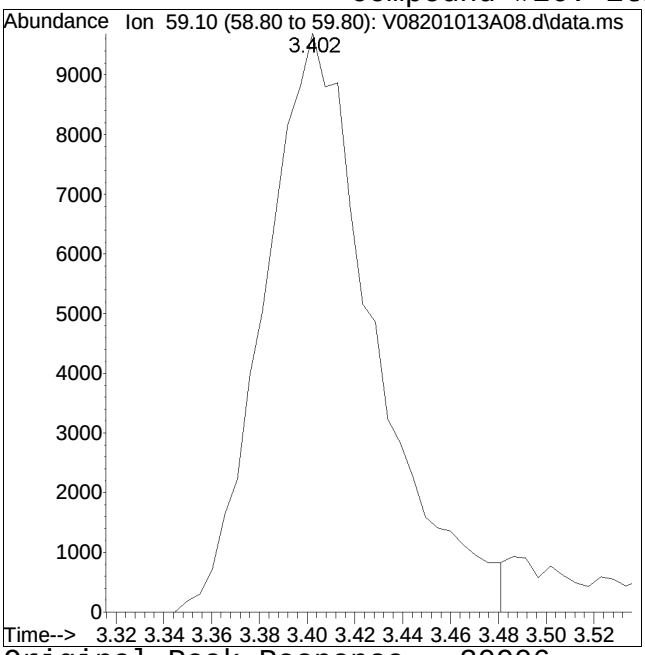
Manual Peak Response = 8224 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

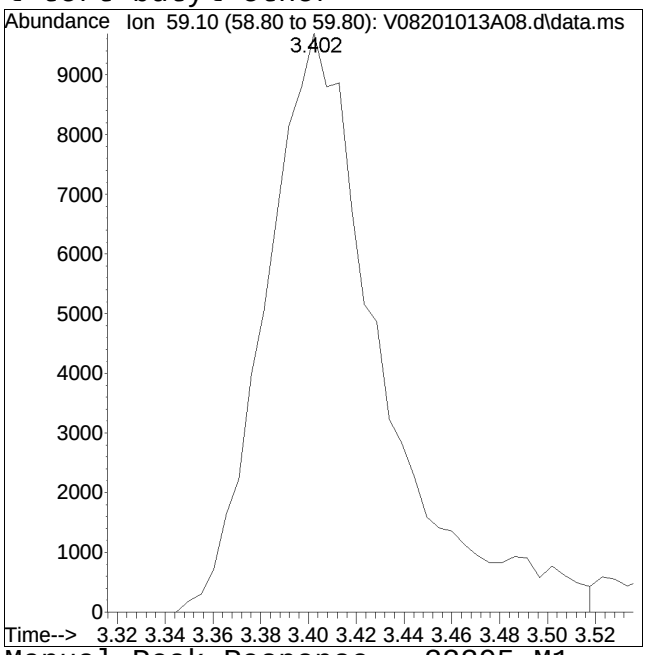
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A08.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 4:29 pm Instrument : VOA 108
Sample : I8260STDL2PPB Quant Date : 10/14/2020 11:46 am

Compound #26: Ethyl tert-butyl ether



Original Peak Response = 30906



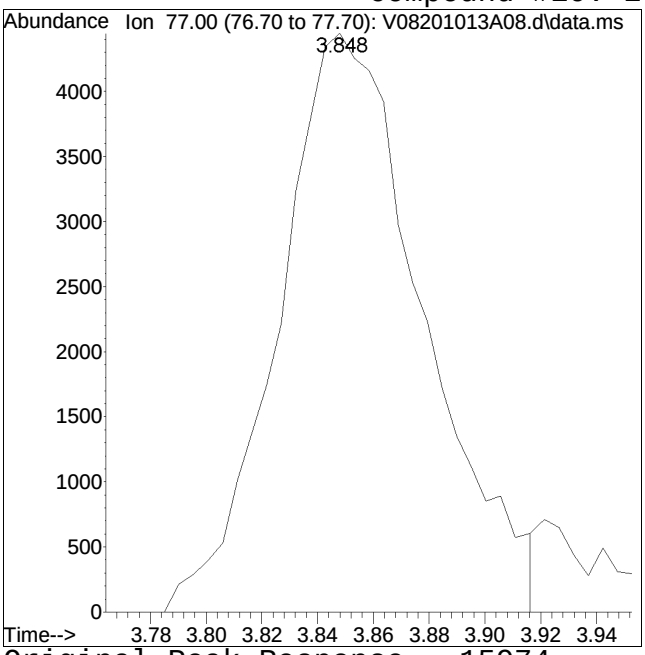
Manual Peak Response = 32395 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

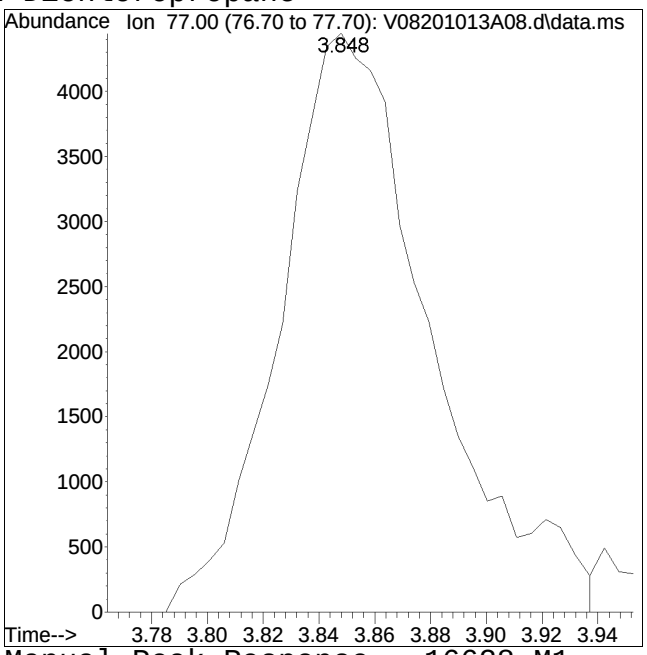
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A08.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 4:29 pm Instrument : VOA 108
Sample : I8260STDL2PPB Quant Date : 10/14/2020 11:46 am

Compound #29: 2,2-Dichloropropane



Original Peak Response = 15974



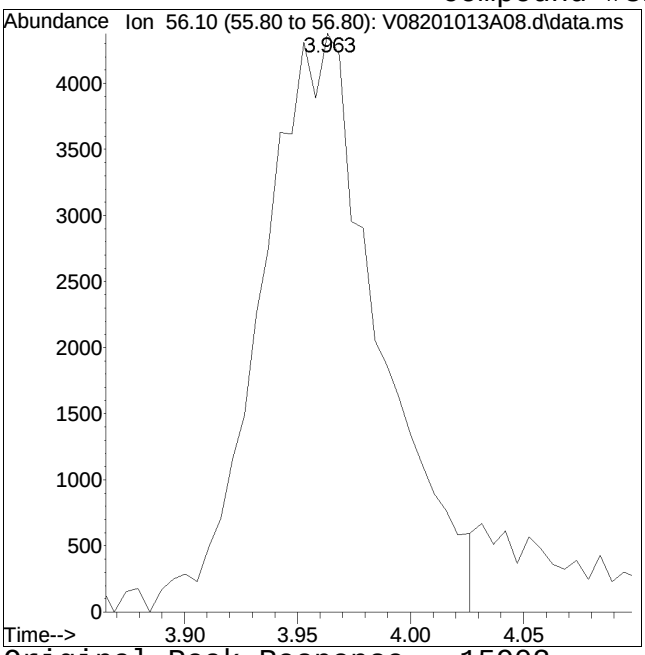
Manual Peak Response = 16628 M1

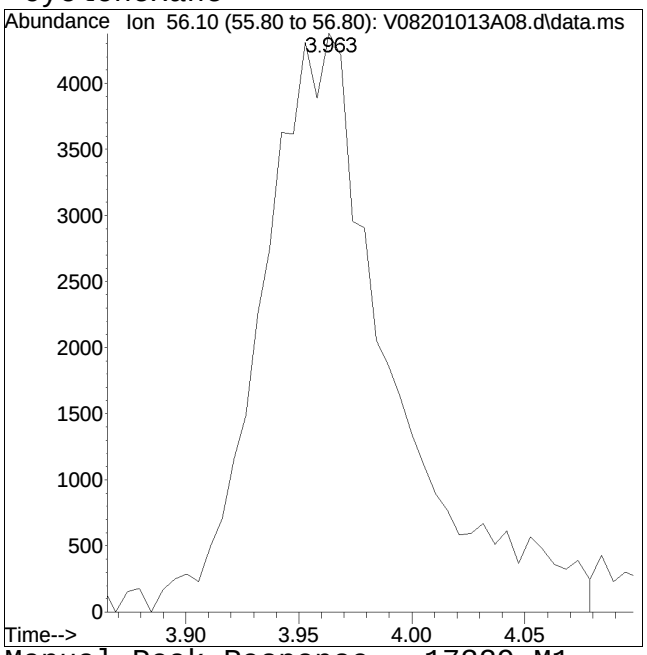
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A08.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 4:29 pm Instrument : VOA 108
Sample : I8260STDL2PPB Quant Date : 10/14/2020 11:46 am

Compound #31: Cyclohexane



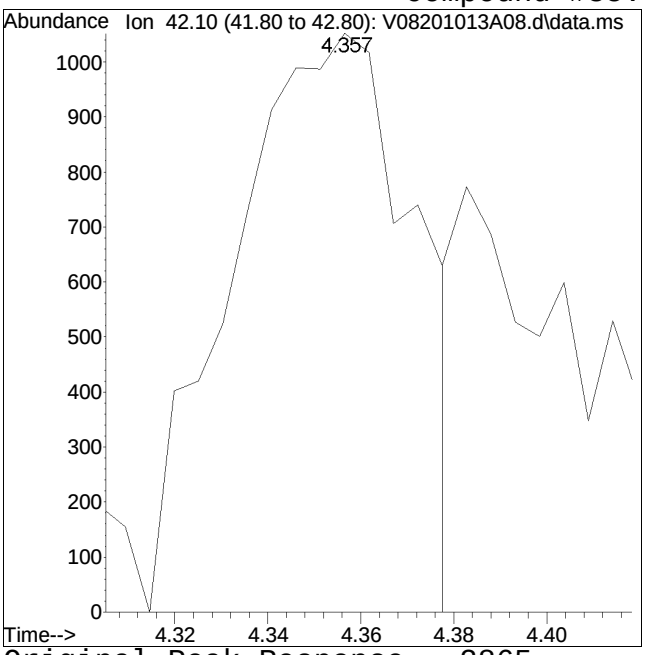


Original Peak Response = 15902 Manual Peak Response = 17329 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

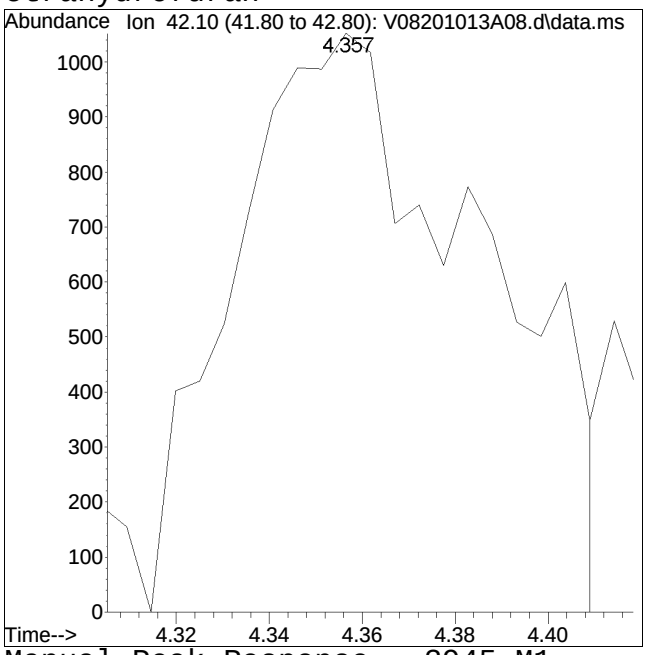
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A08.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 4:29 pm Instrument : VOA 108
Sample : I8260STDL2PPB Quant Date : 10/14/2020 11:46 am

Compound #35: Tetrahydrofuran



Original Peak Response = 2865



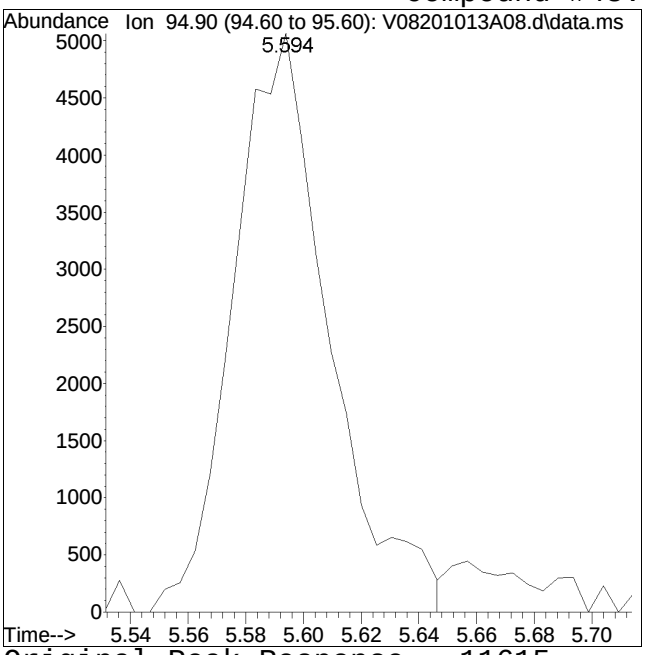
Manual Peak Response = 3945 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

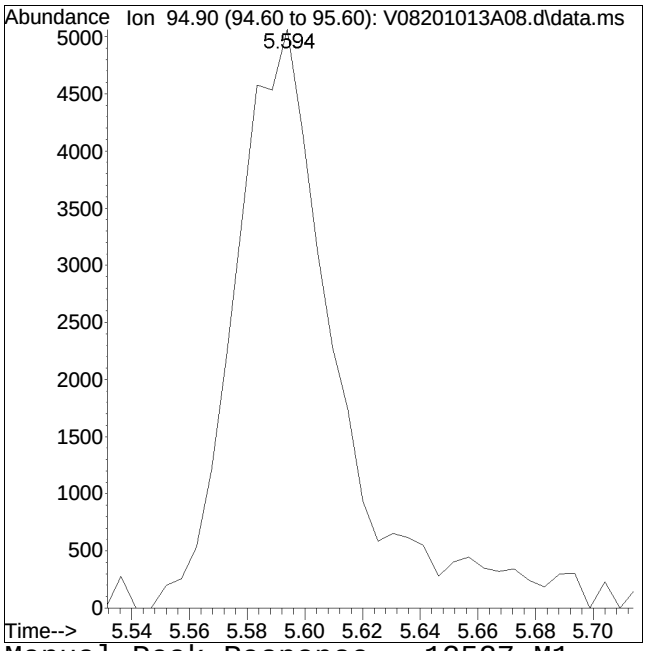
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A08.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 4:29 pm Instrument : VOA 108
Sample : I8260STDL2PPB Quant Date : 10/14/2020 11:46 am

Compound #48: Trichloroethene



Original Peak Response = 11615



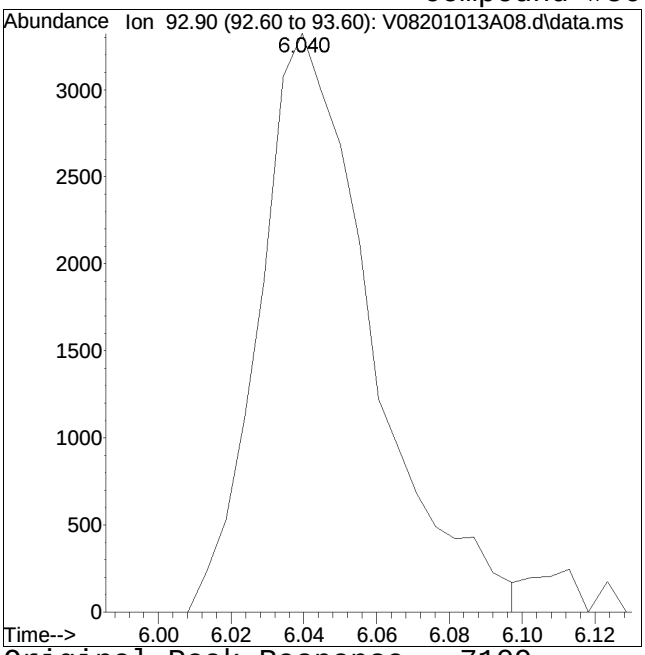
Manual Peak Response = 12527 M1

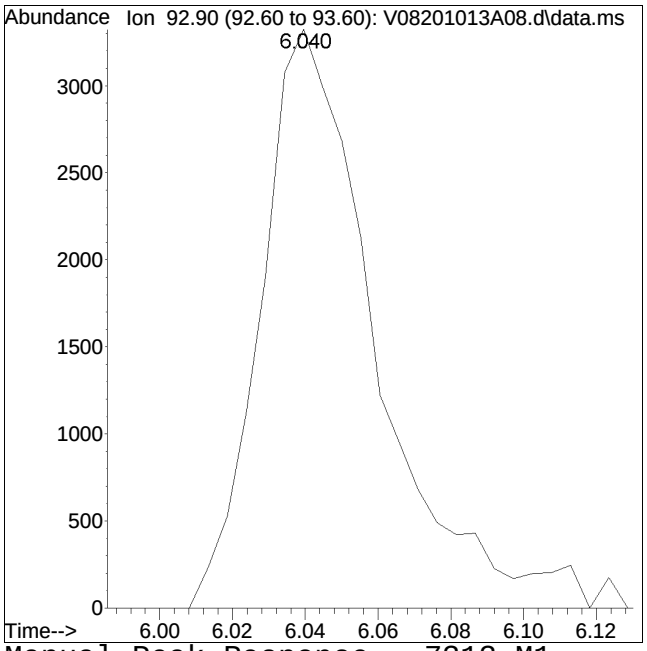
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A08.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 4:29 pm Instrument : VOA 108
Sample : I8260STDL2PPB Quant Date : 10/14/2020 11:46 am

Compound #50: Dibromomethane





Original Peak Response = 7109 Manual Peak Response = 7313 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A09.d
Acq On : 13 Oct 2020 4:51 pm
Operator : VOA108:PD
Sample : I8260STDL10PPB
Misc : WG1422060
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 14 11:46:47 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:44:03 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201013A\V08201013A09.d
Sub List : 8260-CurvePenta - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.390	96	229151	10.000	ug/L	0.00
Standard Area 1 = 229151			Recovery = 100.00%			
59) Chlorobenzene-d5	8.420	117	167273	10.000	ug/L	0.00
Standard Area 1 = 167273			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	9.914	152	90544	10.000	ug/L	0.00
Standard Area 1 = 90544			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	4.388	113	58038	10.100	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.00%			
43) 1,2-Dichloroethane-d4	5.043	65	64211	9.589	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.89%			
60) Toluene-d8	7.099	98	221079	9.995	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.95%			
83) 4-Bromofluorobenzene	9.243	95	83557	9.628	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.28%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.933	85	66792	10.507	ug/L	97
3) Chloromethane	1.048	50	59621	10.131	ug/L	99
4) Vinyl chloride	1.101	62	68676	11.071	ug/L	97
5) Bromomethane	1.300	94	35997	8.964	ug/L	94
6) Chloroethane	1.379	64	52412	10.796	ug/L	95
7) Trichlorofluoromethane	1.473	101	103910	10.647	ug/L	95
8) Ethyl ether	1.698	74	31072	10.322	ug/L	62
10) 1,1-Dichloroethene	1.829	96	50742	10.017	ug/L #	62
11) Carbon disulfide	1.835	76	126769	10.242	ug/L	95
12) Freon-113	1.866	101	50767	10.851	ug/L	96
13) Iodomethane	1.924	142	68428M1	9.996	ug/L	
14) Acrolein	2.092	56	6679	9.487	ug/L	90
15) Methylene chloride	2.296	84	61971	10.243	ug/L	66
17) Acetone	2.349	43	12919	10.253	ug/L	100
18) trans-1,2-Dichloroethene	2.438	96	55500	10.463	ug/L	71
19) Methyl acetate	2.474	43	27275	9.365	ug/L #	88
20) Methyl tert-butyl ether	2.558	73	156205M1	10.398	ug/L	
21) tert-Butyl alcohol	2.705	59	28764M1	51.481	ug/L	
22) Diisopropyl ether	2.972	45	172246	10.214	ug/L #	91
23) 1,1-Dichloroethane	3.051	63	105775M1	10.492	ug/L	
24) Halothane	3.193	117	44333M1	10.642	ug/L	

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A09.d
Acq On : 13 Oct 2020 4:51 pm
Operator : VOA108:PD
Sample : I8260STDL10PPB
Misc : WG1422060
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 14 11:46:47 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:44:03 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201013A\V08201013A09.d
Sub List : 8260-CurvePenta - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	3.114	53	16629M1	10.012	ug/L		
26) Ethyl tert-butyl ether	3.402	59	173211	10.197	ug/L	#	82
27) Vinyl acetate	3.408	43	72899M1	8.747	ug/L		
28) cis-1,2-Dichloroethene	3.722	96	70345M1	10.656	ug/L		
29) 2,2-Dichloropropane	3.853	77	88430	10.290	ug/L		91
30) Bromochloromethane	3.984	128	30943M1	10.737	ug/L		
31) Cyclohexane	3.958	56	91081M1	10.398	ug/L		
32) Chloroform	4.147	83	107861M1	10.310	ug/L		
33) Ethyl acetate	4.393	43	49426M1	10.805	ug/L		
34) Carbon tetrachloride	4.278	117	76445	10.925	ug/L		99
35) Tetrahydrofuran	4.346	42	15892	11.023	ug/L	#	64
37) 1,1,1-Trichloroethane	4.372	97	94399	10.516	ug/L	#	96
39) 2-Butanone	4.587	43	21276M1	10.094	ug/L		
40) 1,1-Dichloropropene	4.545	75	76392	10.406	ug/L		96
41) Benzene	4.860	78	231181	10.334	ug/L		89
42) tert-Amyl methyl ether	5.091	73	168354	10.323	ug/L		86
44) 1,2-Dichloroethane	5.122	62	78466	10.213	ug/L		98
47) Methyl cyclohexane	5.547	83	94648	10.474	ug/L	#	68
48) Trichloroethene	5.589	95	62263	10.258	ug/L		97
50) Dibromomethane	6.040	93	38424	10.292	ug/L		95
51) 1,2-Dichloropropane	6.150	63	60049	10.346	ug/L		97
53) 2-Chloroethyl vinyl ether	6.910	63	34327	10.402	ug/L		90
54) Bromodichloromethane	6.265	83	84925	10.196	ug/L		99
57) 1,4-Dioxane	6.491	88	25656	510.218	ug/L	#	69
58) cis-1,3-Dichloropropene	6.920	75	99625	10.030	ug/L		93
61) Toluene	7.146	92	147477	10.183	ug/L		98
62) 4-Methyl-2-pentanone	7.565	58	20258	10.371	ug/L	#	96
63) Tetrachloroethene	7.513	166	98510	10.755	ug/L		91
65) trans-1,3-Dichloropropene	7.586	75	91174	10.029	ug/L		98
67) Ethyl methacrylate	7.775	69	71079	9.786	ug/L		98
68) 1,1,2-Trichloroethane	7.717	83	44273	10.042	ug/L		95
69) Chlorodibromomethane	7.854	129	60380	10.084	ug/L		98
70) 1,3-Dichloropropane	7.932	76	90332	10.192	ug/L		99
71) 1,2-Dibromoethane	8.016	107	52682	10.189	ug/L		100
72) 2-Hexanone	8.263	43	34581	9.909	ug/L		96
73) Chlorobenzene	8.430	112	158466	10.207	ug/L		92
74) Ethylbenzene	8.472	91	282470	10.343	ug/L		100
75) 1,1,1,2-Tetrachloroethane	8.493	131	60980	10.282	ug/L		96
76) p/m Xylene	8.583	106	217223	20.775	ug/L		95
77) o Xylene	8.866	106	202263	20.731	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A09.d
Acq On : 13 Oct 2020 4:51 pm
Operator : VOA108:PD
Sample : I8260STDL10PPB
Misc : WG1422060
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 14 11:46:47 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:44:03 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201013A\V08201013A09.d
Sub List : 8260-CurvePenta - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78)	Styrene	8.902	104	340728	20.638	ug/L		91
80)	Bromoform	8.908	173	41206	9.252	ug/L		95
82)	Isopropylbenzene	9.075	105	281782	10.042	ug/L		97
84)	Bromobenzene	9.301	156	69988	9.751	ug/L		98
85)	n-Propylbenzene	9.338	91	325956	9.846	ug/L		97
86)	1,4-Dichlorobutane	9.343	55	77676	9.322	ug/L		97
87)	1,1,2,2-Tetrachloroethane	9.390	83	63418	9.514	ug/L		96
88)	4-Ethyltoluene	9.406	105	259153	9.893	ug/L		97
89)	2-Chlorotoluene	9.421	91	221159	9.780	ug/L		97
90)	1,3,5-Trimethylbenzene	9.463	105	230715	9.851	ug/L		92
91)	1,2,3-Trichloropropane	9.458	75	50323	9.145	ug/L		98
92)	trans-1,4-Dichloro-2-b...	9.495	53	17264	9.673	ug/L	#	82
93)	4-Chlorotoluene	9.521	91	201808	9.925	ug/L		95
94)	tert-Butylbenzene	9.647	119	204040	9.756	ug/L		99
95)	Pentachloroethane	9.657	167	16555	7.736	ug/L	#	86
97)	1,2,4-Trimethylbenzene	9.689	105	228795	9.912	ug/L		94
98)	sec-Butylbenzene	9.752	105	273101	10.032	ug/L		97
99)	p-Isopropyltoluene	9.841	119	243068	10.109	ug/L		95
100)	1,3-Dichlorobenzene	9.872	146	129802	9.888	ug/L		97
101)	1,4-Dichlorobenzene	9.925	146	134056	9.869	ug/L		97
102)	p-Diethylbenzene	10.051	119	136884	9.805	ug/L		96
103)	n-Butylbenzene	10.082	91	230266	9.865	ug/L		99
104)	1,2-Dichlorobenzene	10.161	146	125554	9.875	ug/L		97
105)	1,2,4,5-Tetramethylben...	10.501	119	220644	9.672	ug/L		97
106)	1,2-Dibromo-3-chloropr...	10.617	155	10721	9.555	ug/L		91
107)	1,3,5-Trichlorobenzene	10.633	180	91978	9.664	ug/L		95
108)	Hexachlorobutadiene	10.979	225	41037	9.745	ug/L		95
109)	1,2,4-Trichlorobenzene	10.994	180	88130	9.522	ug/L		97
110)	Naphthalene	11.173	128	192629	9.220	ug/L		100
111)	1,2,3-Trichlorobenzene	11.272	180	81085	9.391	ug/L		100

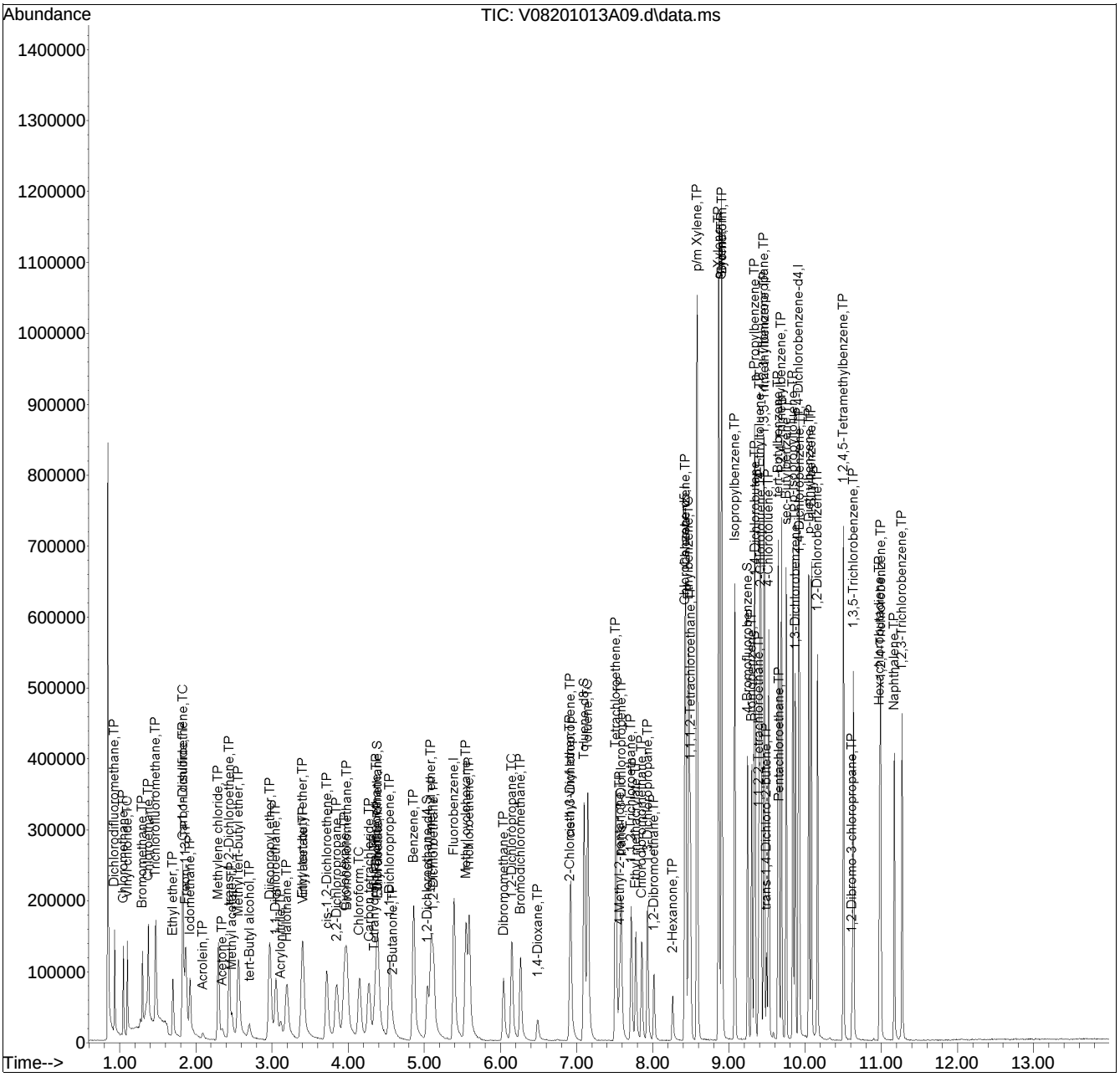
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Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A09.d
Acq On : 13 Oct 2020 4:51 pm
Operator : VOA108:PD
Sample : I8260STDL10PPB
Misc : WG1422060
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 14 11:46:47 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:44:03 2020
Response via : Initial Calibration

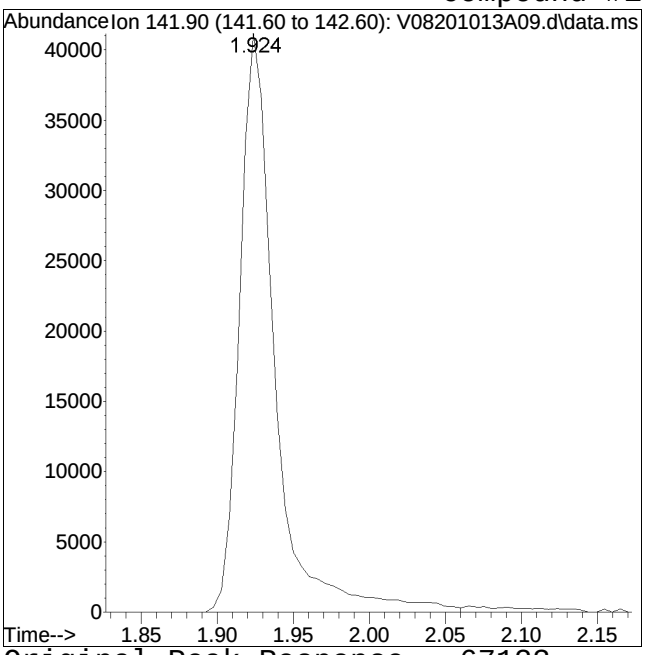
Sub List : 8260-CurvePenta - All compounds listed08201013A09.d•

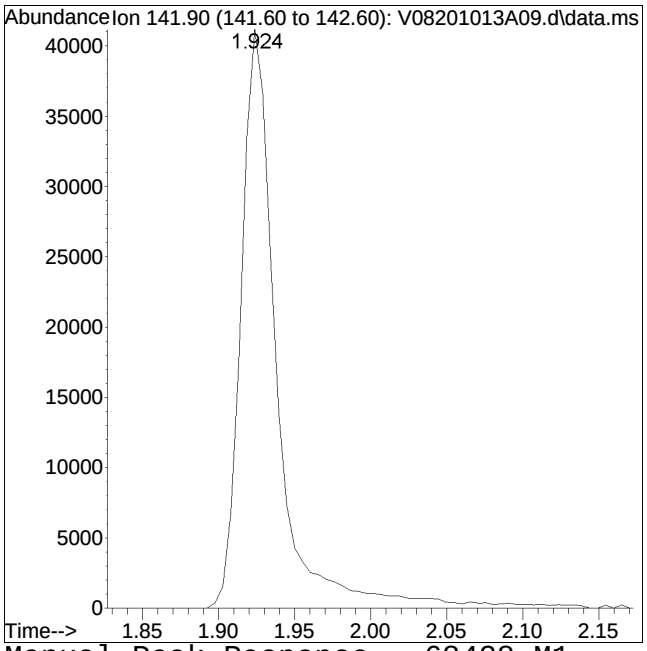


Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A09.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 4:51 pm Instrument : VOA 108
Sample : I8260STDL10PPB Quant Date : 10/14/2020 11:46 am

Compound #13: Iodomethane



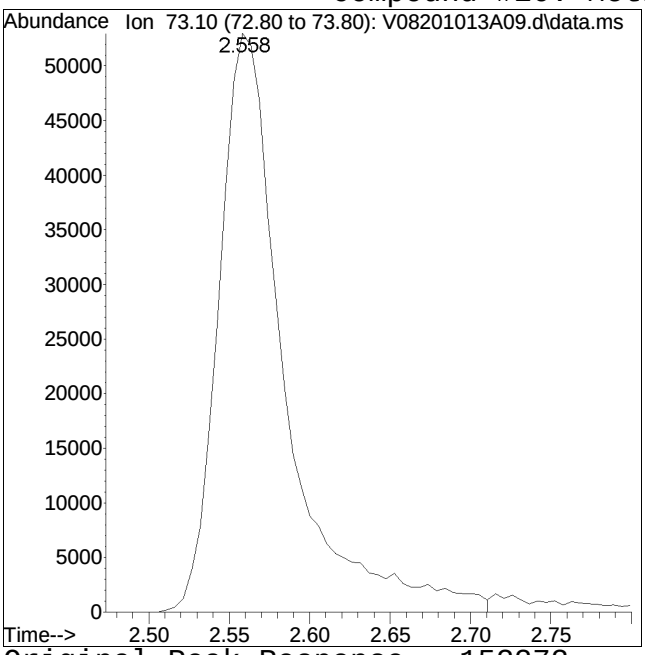


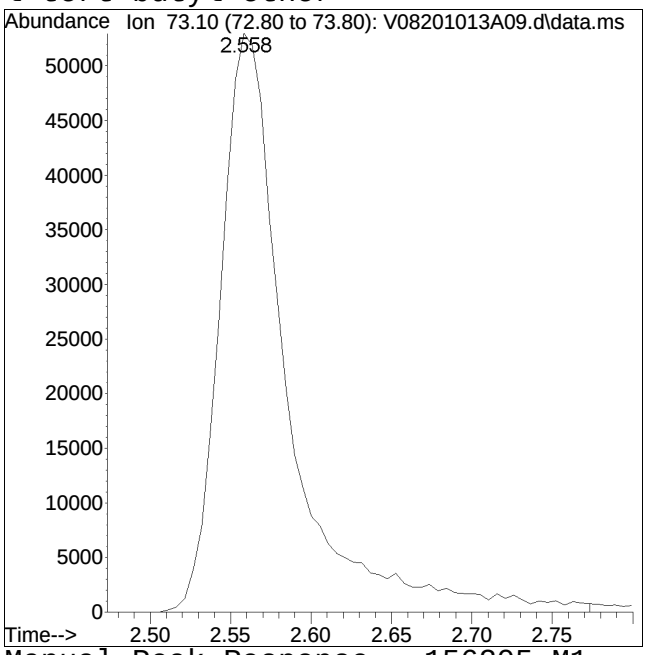
Original Peak Response = 67123 Manual Peak Response = 68428 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A09.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 4:51 pm Instrument : VOA 108
Sample : I8260STDL10PPB Quant Date : 10/14/2020 11:46 am

Compound #20: Methyl tert-butyl ether



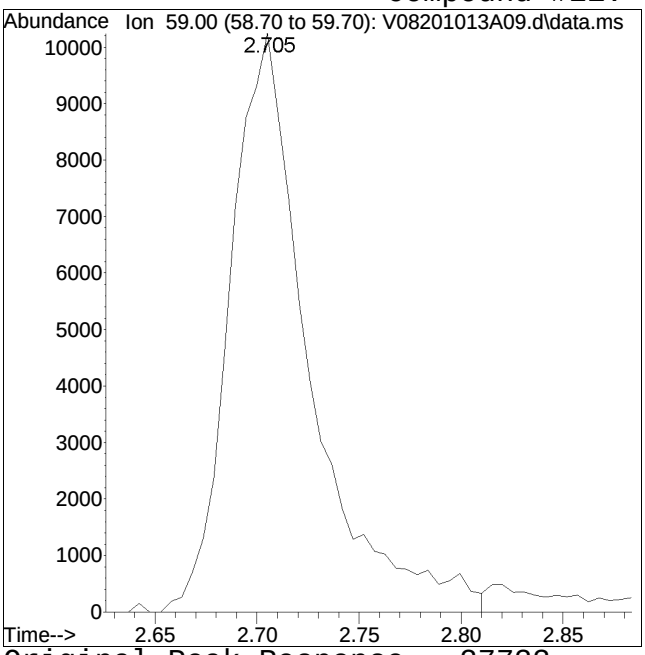


Original Peak Response = 152272 Manual Peak Response = 156205 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

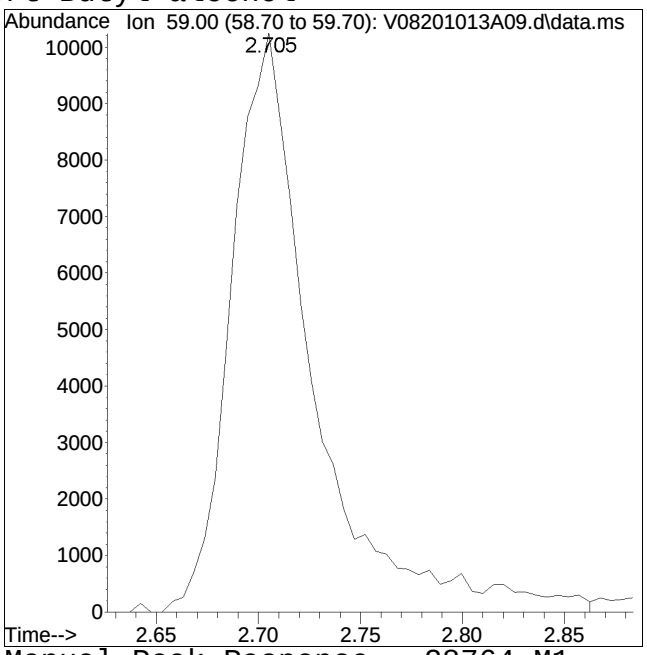
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A09.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 4:51 pm Instrument : VOA 108
Sample : I8260STDL10PPB Quant Date : 10/14/2020 11:46 am

Compound #21: tert-Butyl alcohol



Original Peak Response = 27733



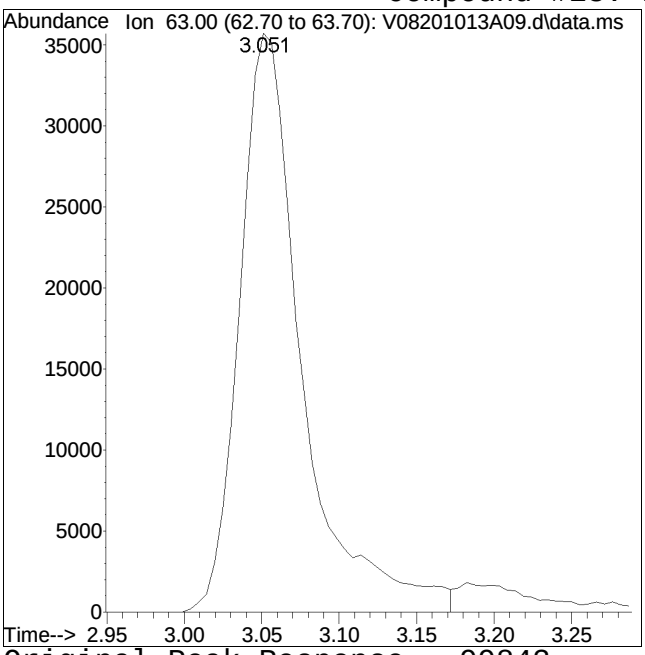
Manual Peak Response = 28764 M1

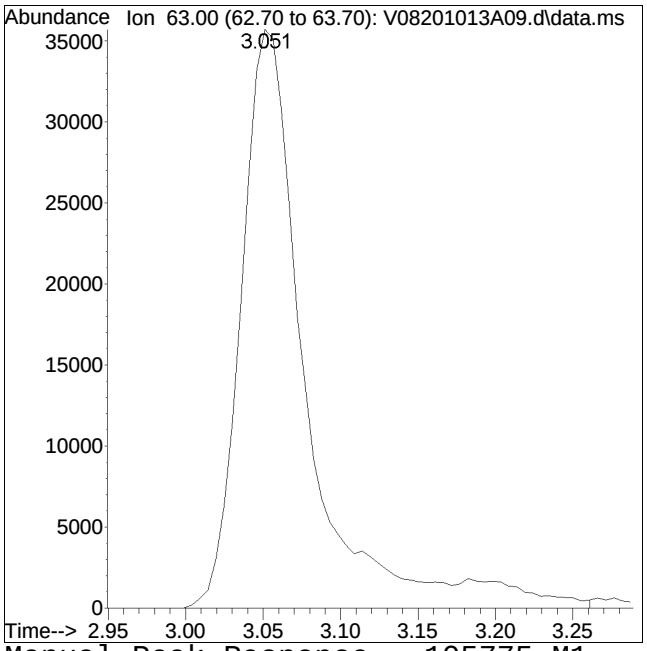
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A09.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 4:51 pm Instrument : VOA 108
Sample : I8260STDL10PPB Quant Date : 10/14/2020 11:46 am

Compound #23: 1,1-Dichloroethane



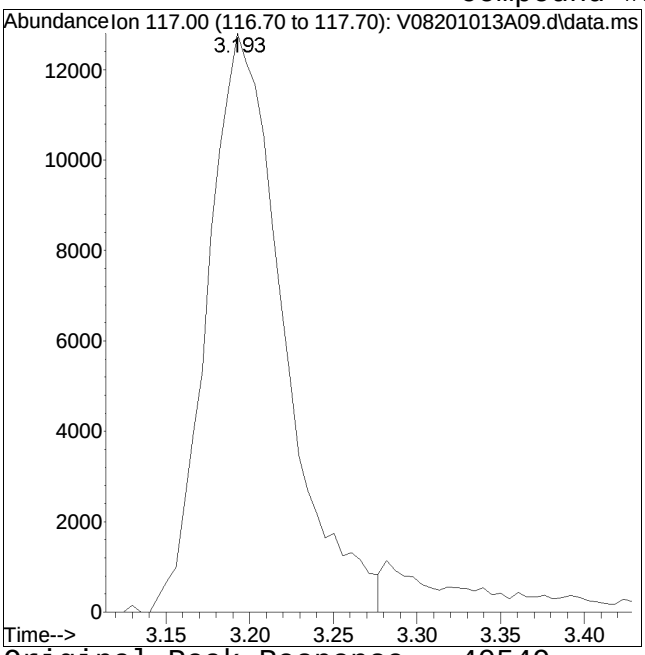


Original Peak Response = 99843 Manual Peak Response = 105775 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

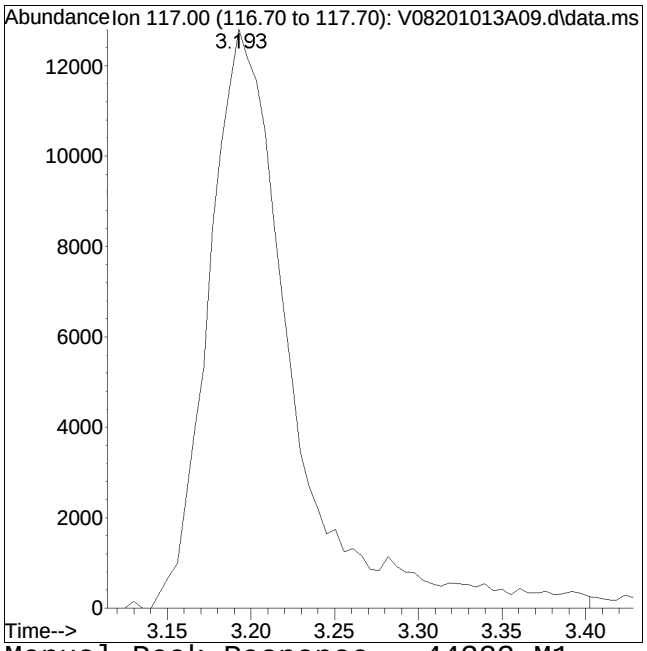
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A09.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 4:51 pm Instrument : VOA 108
Sample : I8260STDL10PPB Quant Date : 10/14/2020 11:46 am

Compound #24: Halothane



Original Peak Response = 40549



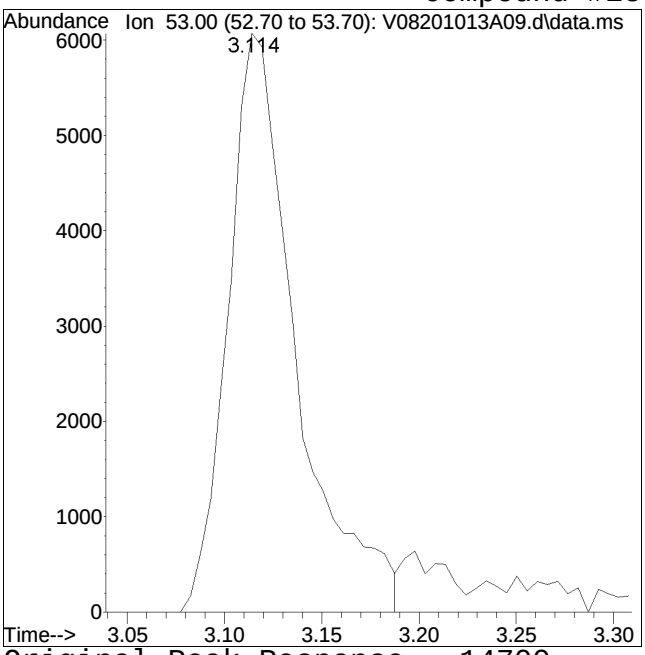
Manual Peak Response = 44333 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

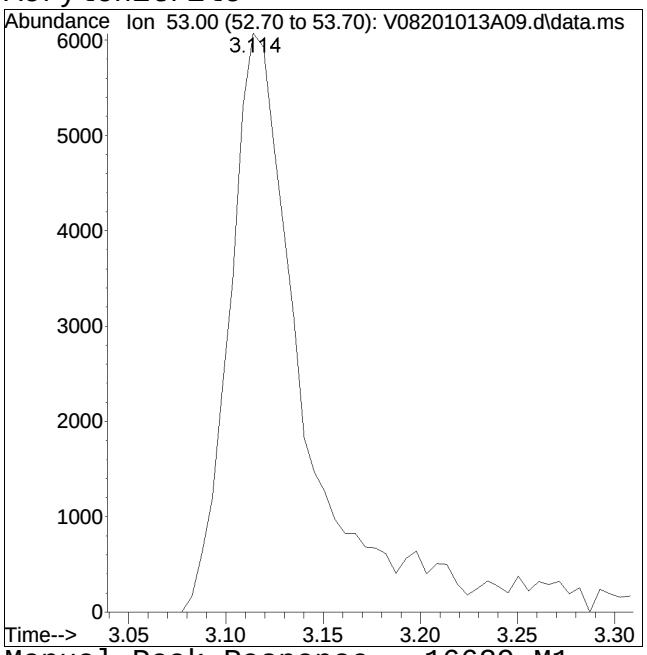
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A09.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 4:51 pm Instrument : VOA 108
Sample : I8260STDL10PPB Quant Date : 10/14/2020 11:46 am

Compound #25: Acrylonitrile



Original Peak Response = 14700



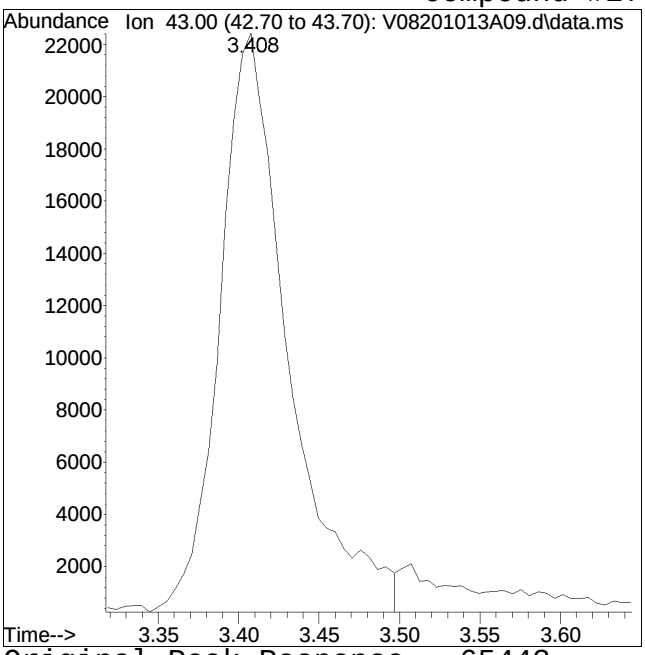
Manual Peak Response = 16629 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

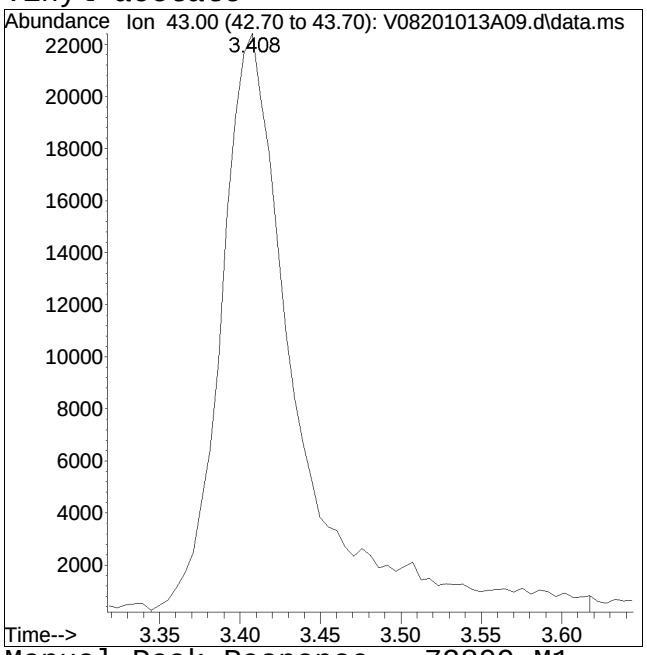
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A09.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 4:51 pm Instrument : VOA 108
Sample : I8260STDL10PPB Quant Date : 10/14/2020 11:46 am

Compound #27: Vinyl acetate



Original Peak Response = 65443



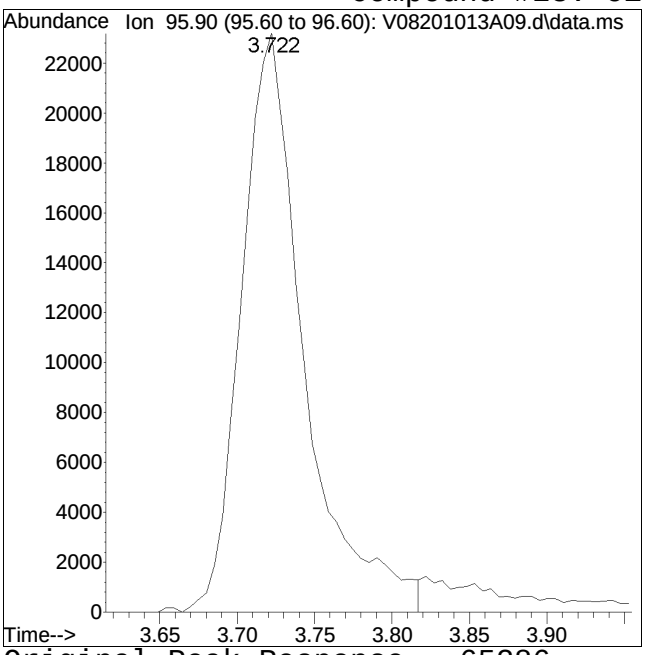
Manual Peak Response = 72899 M1

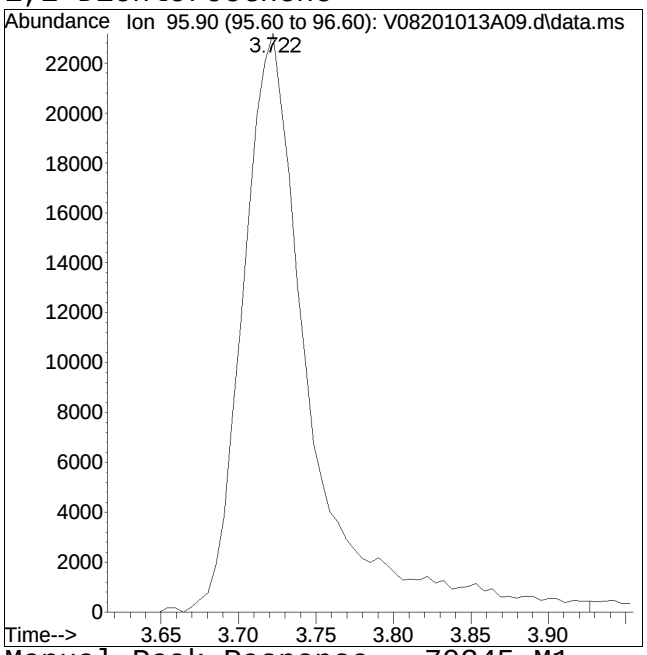
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A09.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 4:51 pm Instrument : VOA 108
Sample : I8260STDL10PPB Quant Date : 10/14/2020 11:46 am

Compound #28: cis-1,2-Dichloroethene



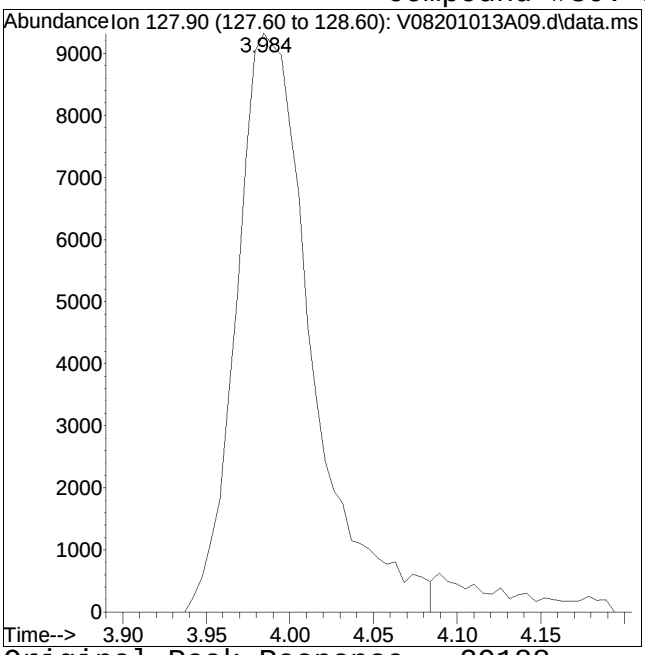


Original Peak Response = 65286 Manual Peak Response = 70345 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

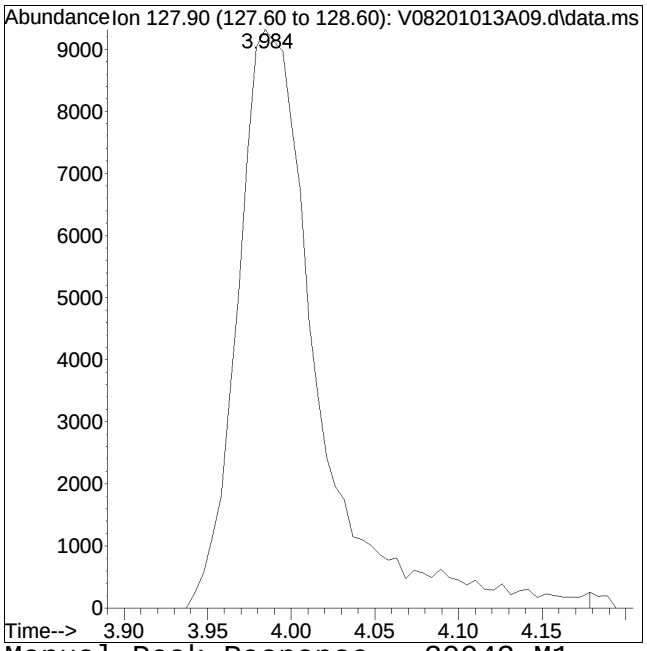
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A09.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 4:51 pm Instrument : VOA 108
Sample : I8260STDL10PPB Quant Date : 10/14/2020 11:46 am

Compound #30: Bromochloromethane



Original Peak Response = 29188



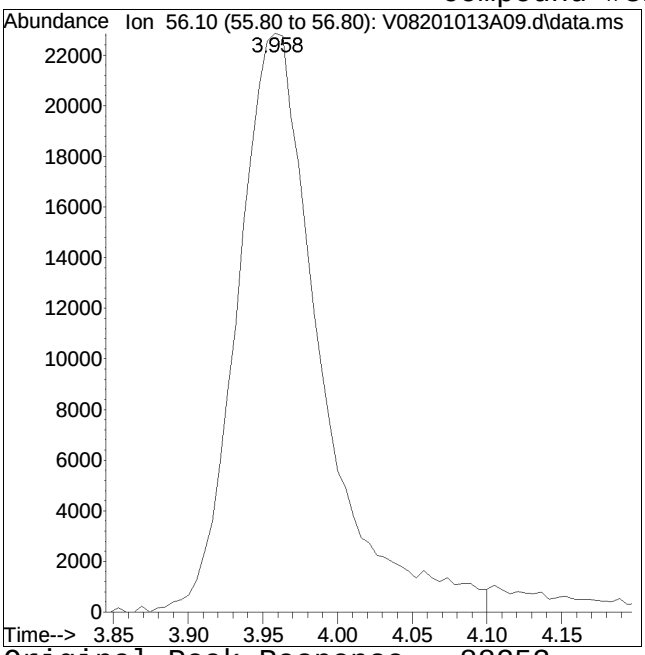
Manual Peak Response = 30943 M1

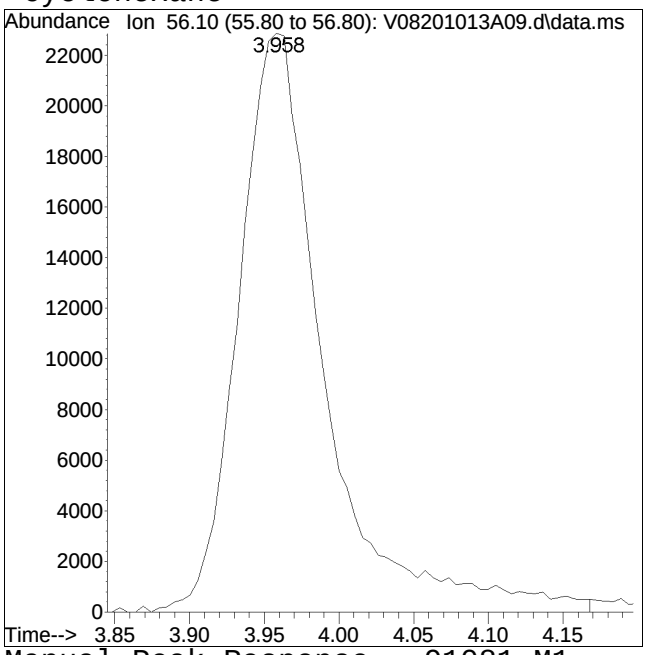
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A09.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 4:51 pm Instrument : VOA 108
Sample : I8260STDL10PPB Quant Date : 10/14/2020 11:46 am

Compound #31: Cyclohexane



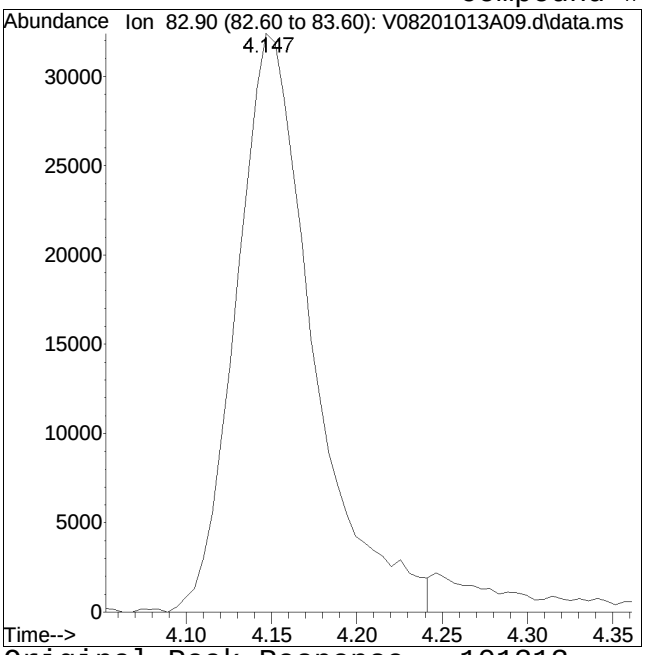


Original Peak Response = 88253 Manual Peak Response = 91081 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

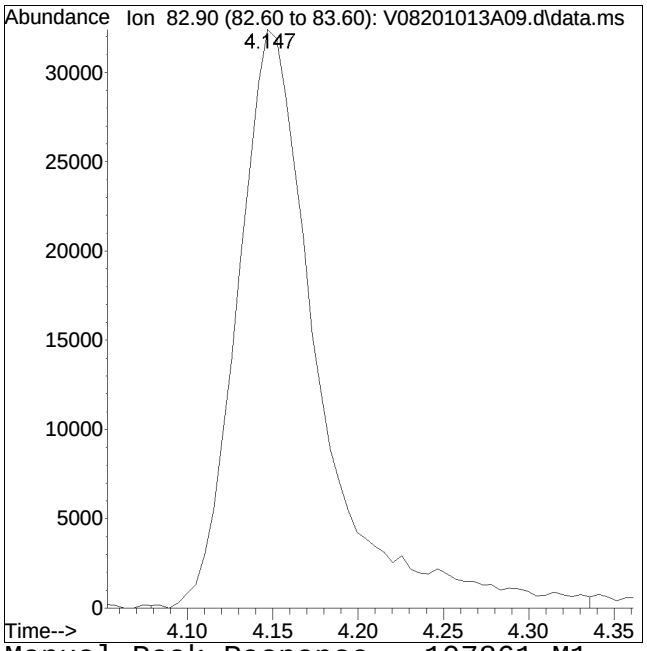
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A09.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 4:51 pm Instrument : VOA 108
Sample : I8260STDL10PPB Quant Date : 10/14/2020 11:46 am

Compound #32: Chloroform



Original Peak Response = 101313



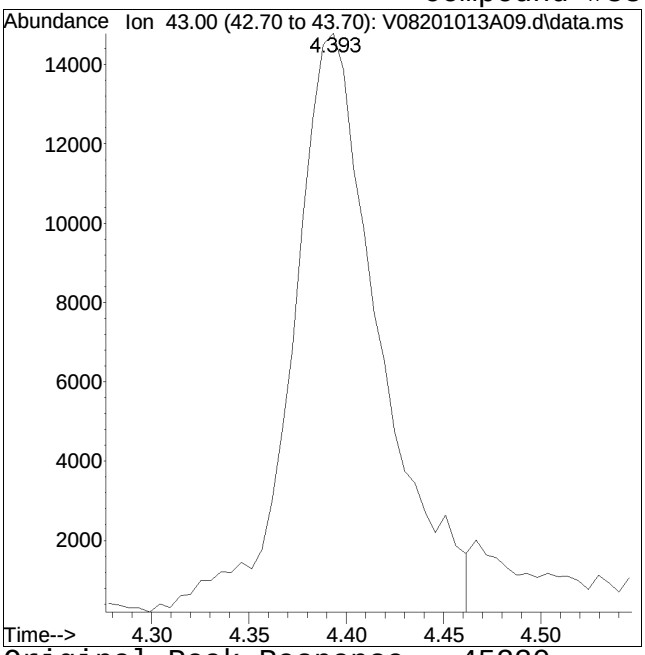
Manual Peak Response = 107861 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

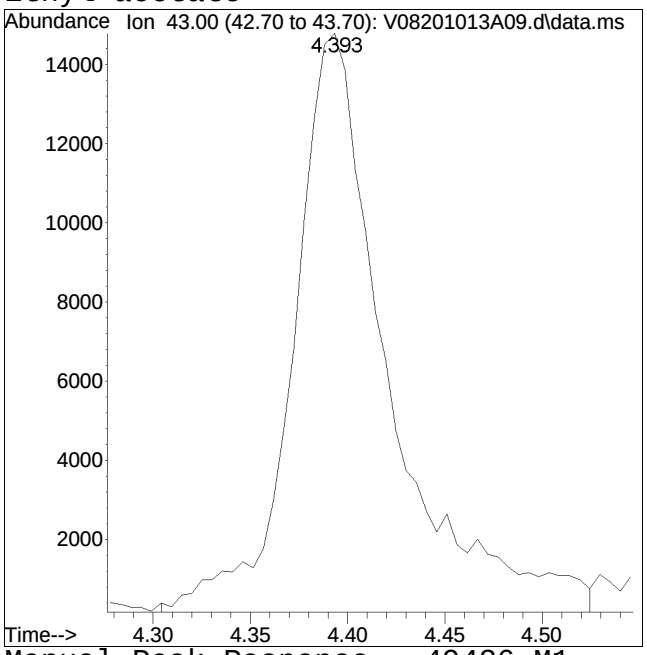
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A09.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 4:51 pm Instrument : VOA 108
Sample : I8260STDL10PPB Quant Date : 10/14/2020 11:46 am

Compound #33: Ethyl acetate



Original Peak Response = 45230



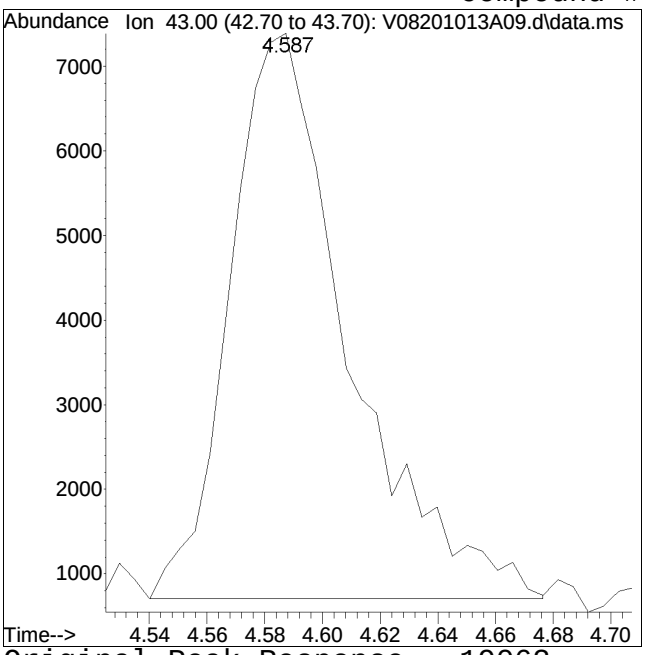
Manual Peak Response = 49426 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

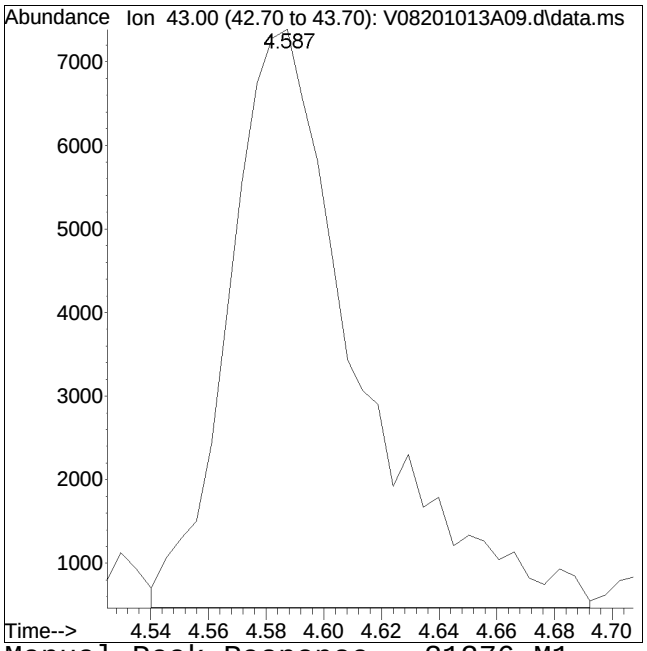
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A09.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 4:51 pm Instrument : VOA 108
Sample : I8260STDL10PPB Quant Date : 10/14/2020 11:46 am

Compound #39: 2-Butanone



Original Peak Response = 19062



Manual Peak Response = 21276 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A10.d
Acq On : 13 Oct 2020 5:13 pm
Operator : VOA108:PD
Sample : I8260STDL30PPB
Misc : WG1422060
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 14 11:46:54 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:44:03 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201013A\V08201013A09.d
Sub List : 8260-CurvePenta - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.389	96	226392	10.000 ug/L	0.00
Standard Area 1 = 229151			Recovery = 98.80%		
59) Chlorobenzene-d5	8.420	117	164651	10.000 ug/L	0.00
Standard Area 1 = 167273			Recovery = 98.43%		
79) 1,4-Dichlorobenzene-d4	9.914	152	86577	10.000 ug/L	0.00
Standard Area 1 = 90544			Recovery = 95.62%		
System Monitoring Compounds					
36) Dibromofluoromethane	4.393	113	56227	9.904 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.04%		
43) 1,2-Dichloroethane-d4	5.038	65	63597	9.613 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.13%		
60) Toluene-d8	7.099	98	216508	9.944 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.44%		
83) 4-Bromofluorobenzene	9.243	95	80594	9.712 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.12%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.933	85	200766	31.968 ug/L	98
3) Chloromethane	1.048	50	171923	29.569 ug/L	100
4) Vinyl chloride	1.101	62	197838	32.283 ug/L	94
5) Bromomethane	1.300	94	114225	28.790 ug/L	98
6) Chloroethane	1.379	64	148536	30.968 ug/L	97
7) Trichlorofluoromethane	1.473	101	311243	32.279 ug/L	94
8) Ethyl ether	1.698	74	86049	28.933 ug/L	65
10) 1,1-Dichloroethene	1.824	96	152212	30.414 ug/L #	61
11) Carbon disulfide	1.835	76	383763	31.382 ug/L	96
12) Freon-113	1.866	101	150713	32.606 ug/L	94
13) Iodomethane	1.924	142	213610	31.584 ug/L	84
14) Acrolein	2.097	56	18515	26.619 ug/L #	82
15) Methylene chloride	2.296	84	170375	28.503 ug/L	67
17) Acetone	2.349	43	35015	28.128 ug/L	97
18) trans-1,2-Dichloroethene	2.438	96	158301	30.206 ug/L	73
19) Methyl acetate	2.474	43	80619	28.019 ug/L #	85
20) Methyl tert-butyl ether	2.558	73	447651	30.163 ug/L	90
21) tert-Butyl alcohol	2.700	59	78972M1	143.064 ug/L	
22) Diisopropyl ether	2.967	45	505789	30.357 ug/L #	92
23) 1,1-Dichloroethane	3.051	63	302175M1	30.339 ug/L	
24) Halothane	3.198	117	125507	30.496 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A10.d
Acq On : 13 Oct 2020 5:13 pm
Operator : VOA108:PD
Sample : I8260STDL30PPB
Misc : WG1422060
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 14 11:46:54 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:44:03 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201013A\V08201013A09.d
Sub List : 8260-CurvePenta - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	3.114	53	46081M1	28.082	ug/L		
26) Ethyl tert-butyl ether	3.397	59	505616	30.128	ug/L		89
27) Vinyl acetate	3.402	43	252976	25.920	ug/L	#	94
28) cis-1,2-Dichloroethene	3.717	96	196530	30.135	ug/L	#	62
29) 2,2-Dichloropropane	3.853	77	256305	30.188	ug/L		91
30) Bromochloromethane	3.990	128	86837	30.499	ug/L	#	54
31) Cyclohexane	3.958	56	263445	30.443	ug/L	#	63
32) Chloroform	4.152	83	306749	29.677	ug/L		95
33) Ethyl acetate	4.388	43	144023	31.869	ug/L	#	90
34) Carbon tetrachloride	4.267	117	217217	31.420	ug/L		98
35) Tetrahydrofuran	4.341	42	46048M1	35.307	ug/L		
37) 1,1,1-Trichloroethane	4.367	97	279957	31.568	ug/L	#	95
39) 2-Butanone	4.582	43	60509	29.056	ug/L	#	33
40) 1,1-Dichloropropene	4.545	75	230878	31.833	ug/L		96
41) Benzene	4.860	78	675697	30.571	ug/L		89
42) tert-Amyl methyl ether	5.091	73	485831	30.153	ug/L		88
44) 1,2-Dichloroethane	5.122	62	224583	29.587	ug/L		97
47) Methyl cyclohexane	5.547	83	283358	31.739	ug/L	#	67
48) Trichloroethene	5.589	95	184061	30.695	ug/L		97
50) Dibromomethane	6.040	93	112281	30.443	ug/L		96
51) 1,2-Dichloropropane	6.150	63	173485	30.253	ug/L		97
53) 2-Chloroethyl vinyl ether	6.910	63	92750	28.448	ug/L		91
54) Bromodichloromethane	6.265	83	251295	30.538	ug/L		99
57) 1,4-Dioxane	6.491	88	28198	567.604	ug/L	#	71
58) cis-1,3-Dichloropropene	6.920	75	296484	30.214	ug/L		92
61) Toluene	7.146	92	430093	30.171	ug/L		97
62) 4-Methyl-2-pentanone	7.560	58	58334	30.338	ug/L	#	94
63) Tetrachloroethene	7.513	166	284111	31.513	ug/L		91
65) trans-1,3-Dichloropropene	7.581	75	271640	30.355	ug/L		97
67) Ethyl methacrylate	7.775	69	212073	29.663	ug/L		99
68) 1,1,2-Trichloroethane	7.717	83	129819	29.915	ug/L		96
69) Chlorodibromomethane	7.854	129	180027	30.545	ug/L		98
70) 1,3-Dichloropropane	7.932	76	260982	29.915	ug/L		98
71) 1,2-Dibromoethane	8.016	107	154051	30.268	ug/L		98
72) 2-Hexanone	8.257	43	104837	30.517	ug/L		95
73) Chlorobenzene	8.430	112	461952	30.228	ug/L		92
74) Ethylbenzene	8.472	91	825986	30.727	ug/L		99
75) 1,1,1,2-Tetrachloroethane	8.493	131	178604	30.595	ug/L		96
76) p/m Xylene	8.582	106	634571	61.655	ug/L		97
77) o Xylene	8.866	106	589875	61.424	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A10.d
Acq On : 13 Oct 2020 5:13 pm
Operator : VOA108:PD
Sample : I8260STDL30PPB
Misc : WG1422060
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 14 11:46:54 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:44:03 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201013A\V08201013A09.d
Sub List : 8260-CurvePenta - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78)	Styrene	8.902	104	1018525	62.674	ug/L		91
80)	Bromoform	8.908	173	125781	29.536	ug/L		96
82)	Isopropylbenzene	9.075	105	815078	30.379	ug/L		97
84)	Bromobenzene	9.301	156	204816	29.842	ug/L		97
85)	n-Propylbenzene	9.337	91	966439	30.531	ug/L		98
86)	1,4-Dichlorobutane	9.337	55	230497	28.930	ug/L		96
87)	1,1,2,2-Tetrachloroethane	9.390	83	186086	29.197	ug/L		96
88)	4-Ethyltoluene	9.406	105	769417	30.719	ug/L		97
89)	2-Chlorotoluene	9.416	91	649761	30.051	ug/L		96
90)	1,3,5-Trimethylbenzene	9.458	105	687095	30.681	ug/L		93
91)	1,2,3-Trichloropropane	9.458	75	152259	28.937	ug/L		99
92)	trans-1,4-Dichloro-2-b...	9.490	53	51344	30.087	ug/L	#	70
93)	4-Chlorotoluene	9.521	91	591555M1	30.426	ug/L		
94)	tert-Butylbenzene	9.647	119	612177	30.613	ug/L		98
95)	Pentachloroethane	9.657	167	56633	27.675	ug/L		88
97)	1,2,4-Trimethylbenzene	9.689	105	677244	30.683	ug/L		95
98)	sec-Butylbenzene	9.752	105	818752	31.455	ug/L		98
99)	p-Isopropyltoluene	9.836	119	722028	31.405	ug/L		96
100)	1,3-Dichlorobenzene	9.867	146	381951	30.429	ug/L		97
101)	1,4-Dichlorobenzene	9.925	146	392743	30.237	ug/L		97
102)	p-Diethylbenzene	10.045	119	409575	30.681	ug/L		95
103)	n-Butylbenzene	10.077	91	683736	30.636	ug/L		99
104)	1,2-Dichlorobenzene	10.161	146	362955	29.854	ug/L		98
105)	1,2,4,5-Tetramethylben...	10.501	119	661998	30.350	ug/L		97
106)	1,2-Dibromo-3-chloropr...	10.617	155	32291	30.096	ug/L		92
107)	1,3,5-Trichlorobenzene	10.633	180	272119	29.901	ug/L		95
108)	Hexachlorobutadiene	10.979	225	121629	30.206	ug/L		95
109)	1,2,4-Trichlorobenzene	10.994	180	258734	29.235	ug/L		99
110)	Naphthalene	11.167	128	585935	29.330	ug/L		100
111)	1,2,3-Trichlorobenzene	11.272	180	243160	29.453	ug/L		99

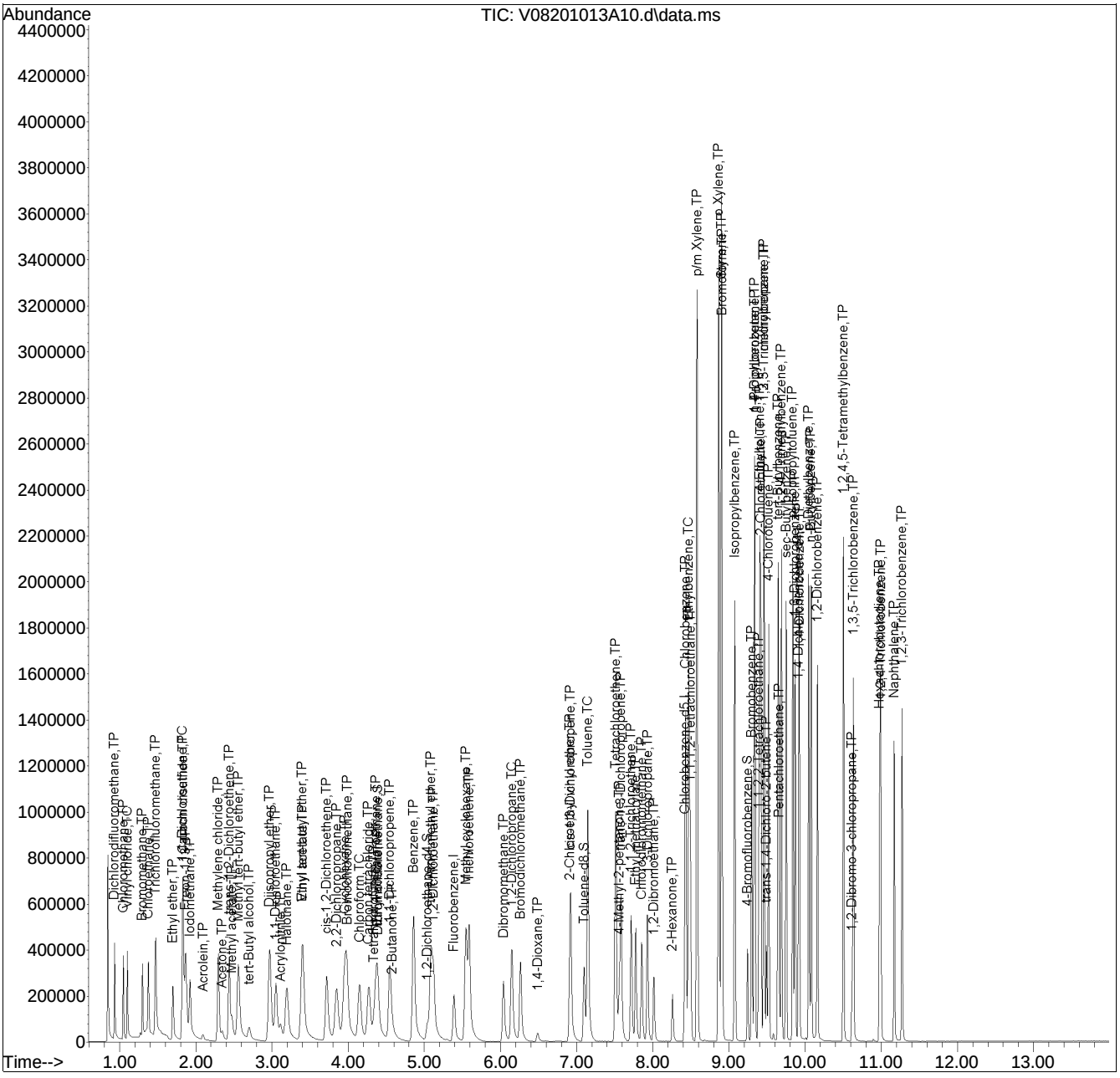
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A10.d
Acq On : 13 Oct 2020 5:13 pm
Operator : VOA108:PD
Sample : I8260STDL30PPB
Misc : WG1422060
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 14 11:46:54 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:44:03 2020
Response via : Initial Calibration

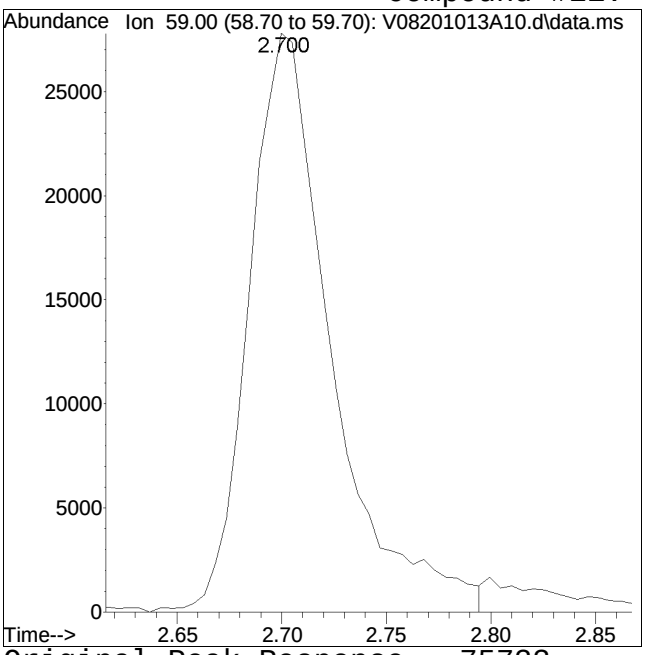
Sub List : 8260-CurvePenta - All compounds listed08201013A09.d•

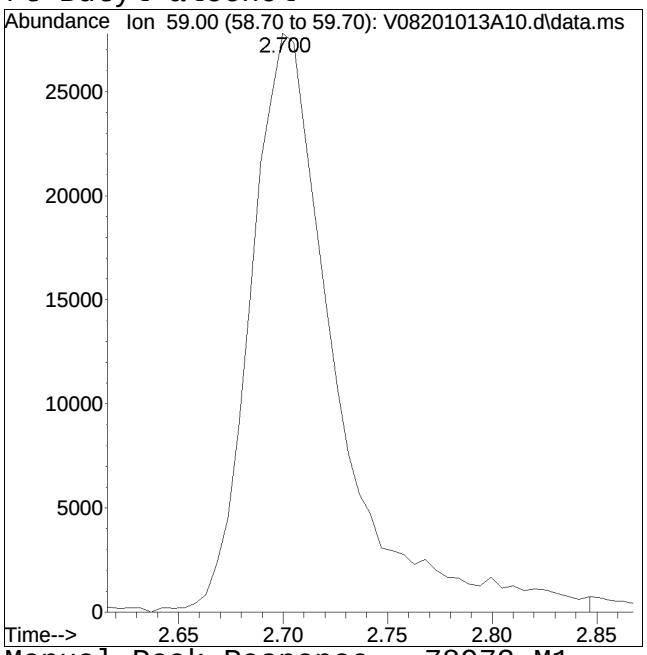


Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A10.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 5:13 pm Instrument : VOA 108
Sample : I8260STDL30PPB Quant Date : 10/14/2020 11:46 am

Compound #21: tert-Butyl alcohol



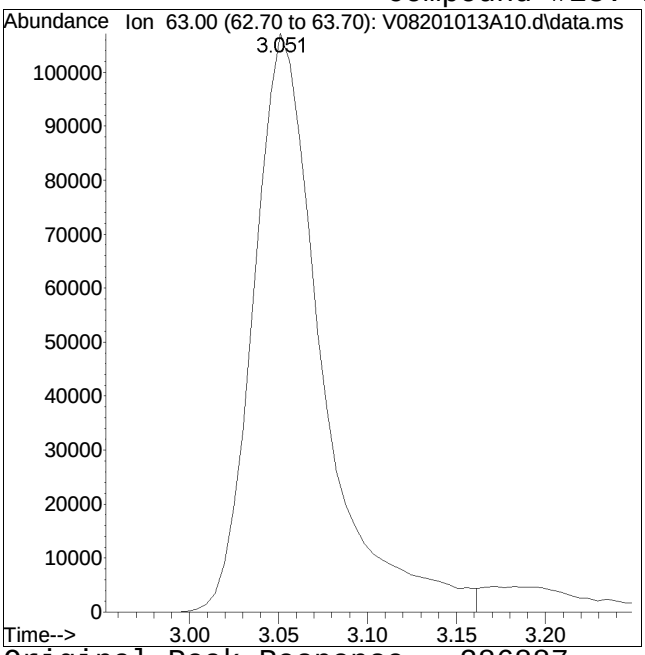


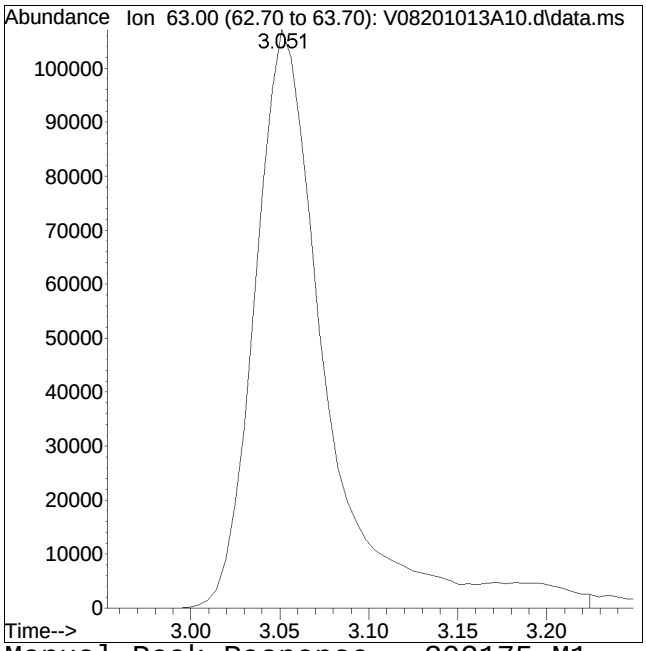
Original Peak Response = 75733 Manual Peak Response = 78972 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A10.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 5:13 pm Instrument : VOA 108
Sample : I8260STDL30PPB Quant Date : 10/14/2020 11:46 am

Compound #23: 1,1-Dichloroethane



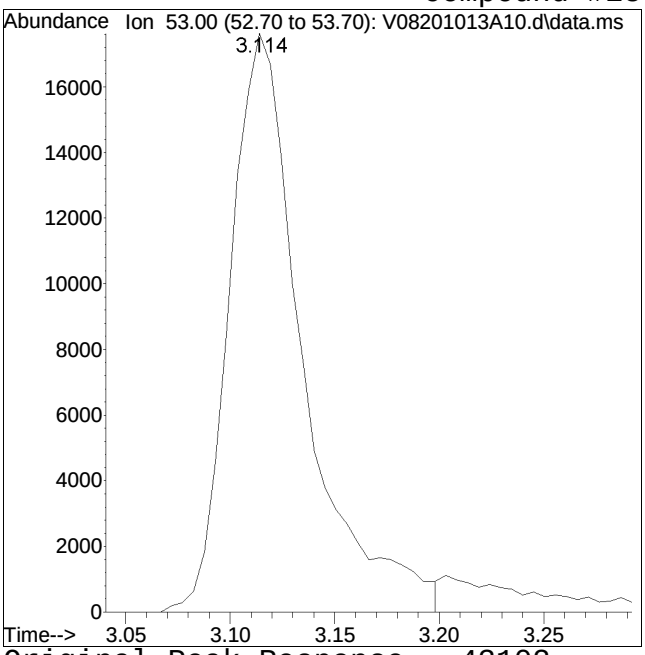


Original Peak Response = 286887 Manual Peak Response = 302175 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

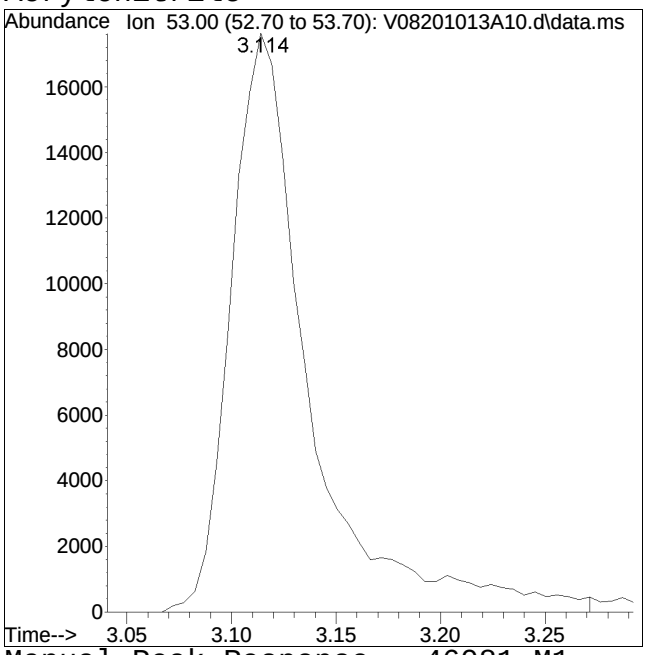
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A10.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 5:13 pm Instrument : VOA 108
Sample : I8260STDL30PPB Quant Date : 10/14/2020 11:46 am

Compound #25: Acrylonitrile



Original Peak Response = 43102



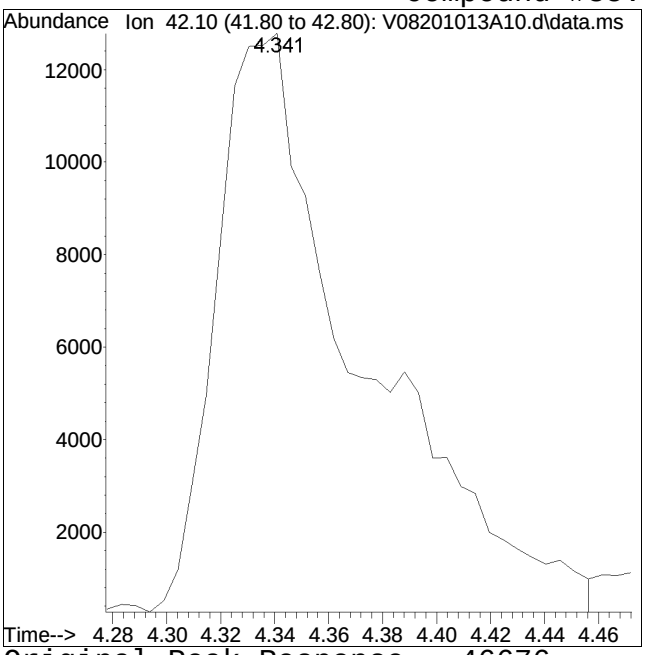
Manual Peak Response = 46081 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

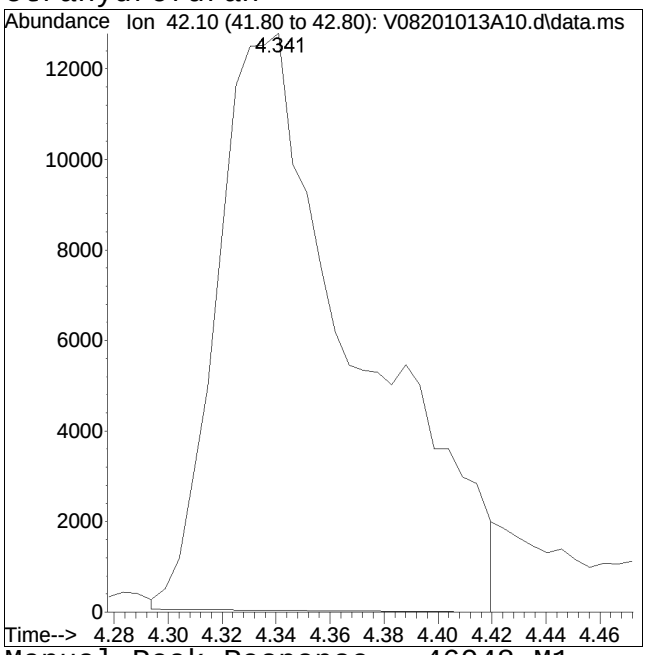
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A10.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 5:13 pm Instrument : VOA 108
Sample : I8260STDL30PPB Quant Date : 10/14/2020 11:46 am

Compound #35: Tetrahydrofuran



Original Peak Response = 46676



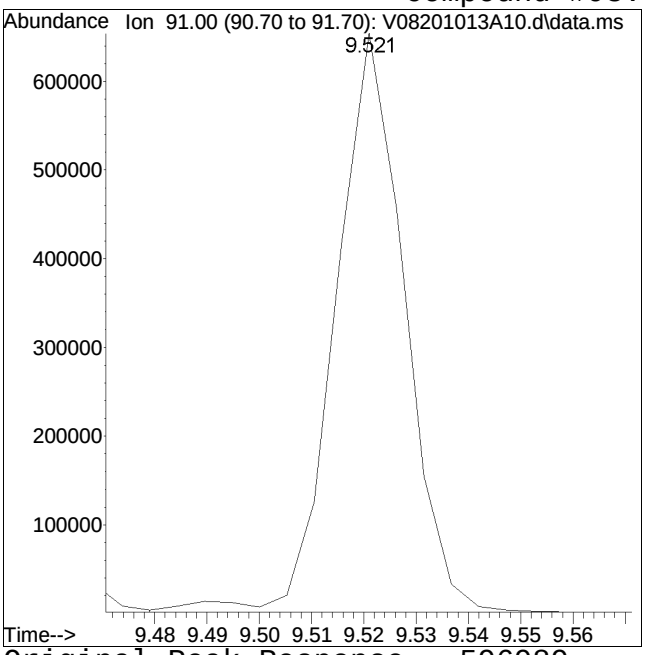
Manual Peak Response = 46048 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

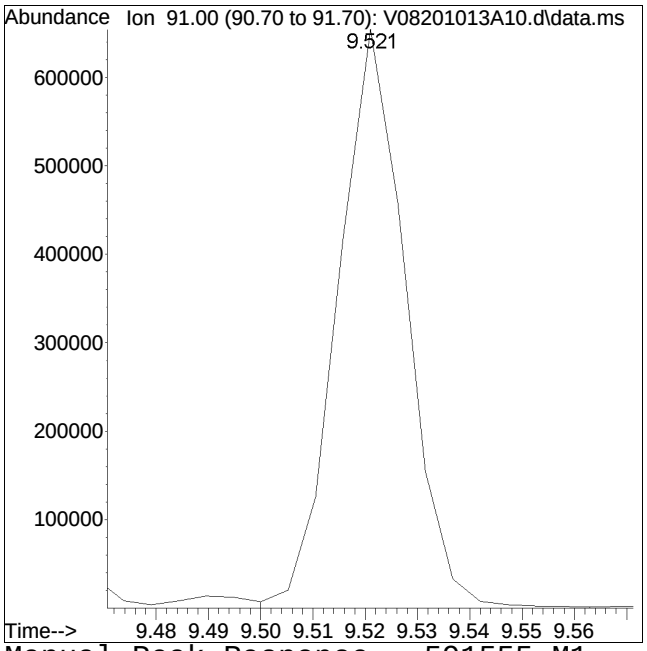
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A10.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 5:13 pm Instrument : VOA 108
Sample : I8260STDL30PPB Quant Date : 10/14/2020 11:46 am

Compound #93: 4-Chlorotoluene



Original Peak Response = 596989



Manual Peak Response = 591555 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A11.d
Acq On : 13 Oct 2020 5:35 pm
Operator : VOA108:PD
Sample : I8260STDL80PPB
Misc : WG1422060
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 14 11:47:01 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:44:03 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201013A\V08201013A09.d
Sub List : 8260-CurvePenta - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.390	96	225438	10.000 ug/L	0.00
Standard Area 1 = 229151			Recovery = 98.38%		
59) Chlorobenzene-d5	8.420	117	166221	10.000 ug/L	0.00
Standard Area 1 = 167273			Recovery = 99.37%		
79) 1,4-Dichlorobenzene-d4	9.914	152	80625	10.000 ug/L	0.00
Standard Area 1 = 90544			Recovery = 89.05%		
System Monitoring Compounds					
36) Dibromofluoromethane	4.393	113	58292	10.311 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.11%		
43) 1,2-Dichloroethane-d4	5.038	65	64753	9.829 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.29%		
60) Toluene-d8	7.099	98	217466	9.894 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.94%		
83) 4-Bromofluorobenzene	9.243	95	80348	10.397 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.97%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.933	85	544262	87.030 ug/L	99
3) Chloromethane	1.048	50	471355	81.411 ug/L	100
4) Vinyl chloride	1.101	62	541819	88.787 ug/L	95
5) Bromomethane	1.300	94	318233	80.548 ug/L	99
6) Chloroethane	1.379	64	377358	79.009 ug/L	95
7) Trichlorofluoromethane	1.468	101	860103	89.580 ug/L	96
8) Ethyl ether	1.698	74	244681	82.618 ug/L #	61
10) 1,1-Dichloroethene	1.824	96	417520	83.779 ug/L #	62
11) Carbon disulfide	1.830	76	1057668	86.857 ug/L	95
12) Freon-113	1.866	101	411209	89.340 ug/L	93
13) Iodomethane	1.924	142	625047	92.809 ug/L	85
14) Acrolein	2.092	56	51262	74.012 ug/L	90
15) Methylene chloride	2.296	84	467714	78.578 ug/L	67
17) Acetone	2.349	43	95636	77.151 ug/L	93
18) trans-1,2-Dichloroethene	2.438	96	434876	83.330 ug/L	74
19) Methyl acetate	2.474	43	232860	81.274 ug/L #	85
20) Methyl tert-butyl ether	2.558	73	1210362	81.899 ug/L	91
21) tert-Butyl alcohol	2.700	59	214444	390.126 ug/L #	57
22) Diisopropyl ether	2.973	45	1365173	82.283 ug/L #	89
23) 1,1-Dichloroethane	3.051	63	828536M1	83.538 ug/L	
24) Halothane	3.193	117	346214	84.480 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A11.d
Acq On : 13 Oct 2020 5:35 pm
Operator : VOA108:PD
Sample : I8260STDL80PPB
Misc : WG1422060
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 14 11:47:01 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:44:03 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201013A\V08201013A09.d
Sub List : 8260-CurvePenta - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	3.114	53	126671	77.520	ug/L	#	94
26) Ethyl tert-butyl ether	3.397	59	1378832	82.508	ug/L		94
27) Vinyl acetate	3.402	43	799568	78.116	ug/L	#	94
28) cis-1,2-Dichloroethene	3.717	96	532509	81.997	ug/L	#	65
29) 2,2-Dichloropropane	3.848	77	685863	81.123	ug/L		91
30) Bromochloromethane	3.984	128	231473	81.643	ug/L	#	55
31) Cyclohexane	3.953	56	720365	83.597	ug/L	#	61
32) Chloroform	4.147	83	838708	81.487	ug/L		95
33) Ethyl acetate	4.383	43	386971	85.989	ug/L	#	94
34) Carbon tetrachloride	4.273	117	612305	88.944	ug/L		99
35) Tetrahydrofuran	4.330	42	92358	72.678	ug/L	#	37
37) 1,1,1-Trichloroethane	4.367	97	763720	86.481	ug/L	#	95
39) 2-Butanone	4.577	43	163855	79.015	ug/L	#	30
40) 1,1-Dichloropropene	4.545	75	626697	86.773	ug/L		95
41) Benzene	4.860	78	1835751	83.408	ug/L		90
42) tert-Amyl methyl ether	5.085	73	1331963	83.017	ug/L		87
44) 1,2-Dichloroethane	5.122	62	627081	82.963	ug/L		98
47) Methyl cyclohexane	5.547	83	778909	87.614	ug/L	#	67
48) Trichloroethene	5.589	95	498242	83.442	ug/L		97
50) Dibromomethane	6.040	93	306518	83.457	ug/L		95
51) 1,2-Dichloropropane	6.145	63	475296	83.236	ug/L		97
53) 2-Chloroethyl vinyl ether	6.910	63	267731	82.466	ug/L		89
54) Bromodichloromethane	6.260	83	688330	84.000	ug/L		99
57) 1,4-Dioxane	6.485	88	39716	802.836	ug/L	#	72
58) cis-1,3-Dichloropropene	6.920	75	823139	84.239	ug/L		92
61) Toluene	7.146	92	1181067	82.070	ug/L		97
62) 4-Methyl-2-pentanone	7.560	58	158546	81.678	ug/L	#	94
63) Tetrachloroethene	7.513	166	737059	80.980	ug/L		91
65) trans-1,3-Dichloropropene	7.581	75	757096	83.804	ug/L		96
67) Ethyl methacrylate	7.775	69	586425	81.248	ug/L		98
68) 1,1,2-Trichloroethane	7.717	83	355289	81.099	ug/L		96
69) Chlorodibromomethane	7.854	129	493474	82.936	ug/L		98
70) 1,3-Dichloropropane	7.932	76	710809	80.706	ug/L		99
71) 1,2-Dibromoethane	8.011	107	424137	82.546	ug/L		99
72) 2-Hexanone	8.257	43	282982	81.596	ug/L		95
73) Chlorobenzene	8.431	112	1262048	81.803	ug/L		91
74) Ethylbenzene	8.472	91	2248027	82.839	ug/L		99
75) 1,1,1,2-Tetrachloroethane	8.493	131	491143	83.338	ug/L		97
76) p/m Xylene	8.583	106	1722719	165.798	ug/L		97
77) o Xylene	8.866	106	1601721	165.212	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A11.d
Acq On : 13 Oct 2020 5:35 pm
Operator : VOA108:PD
Sample : I8260STDL80PPB
Misc : WG1422060
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 14 11:47:01 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:44:03 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201013A\V08201013A09.d
Sub List : 8260-CurvePenta - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78)	Styrene	8.902	104	2800882	170.723	ug/L		92
80)	Bromoform	8.908	173	343494	86.614	ug/L		97
82)	Isopropylbenzene	9.075	105	2196637	87.914	ug/L		97
84)	Bromobenzene	9.301	156	549256	85.935	ug/L		97
85)	n-Propylbenzene	9.338	91	2602178	88.275	ug/L		98
86)	1,4-Dichlorobutane	9.343	55	618464	83.355	ug/L		97
87)	1,1,2,2-Tetrachloroethane	9.390	83	496662	83.679	ug/L		95
88)	4-Ethyltoluene	9.406	105	2047556	87.784	ug/L		97
89)	2-Chlorotoluene	9.421	91	1738632	86.345	ug/L		97
90)	1,3,5-Trimethylbenzene	9.463	105	1799209	86.270	ug/L		92
91)	1,2,3-Trichloropropane	9.458	75	403308	82.307	ug/L		99
92)	trans-1,4-Dichloro-2-b...	9.490	53	141120	88.799	ug/L	#	70
93)	4-Chlorotoluene	9.521	91	1559953M1	86.157	ug/L		
94)	tert-Butylbenzene	9.647	119	1618902	86.932	ug/L		98
95)	Pentachloroethane	9.657	167	175762	92.231	ug/L		90
97)	1,2,4-Trimethylbenzene	9.689	105	1763476	85.795	ug/L		94
98)	sec-Butylbenzene	9.752	105	2091346	86.277	ug/L		97
99)	p-Isopropyltoluene	9.841	119	1856284	86.701	ug/L		96
100)	1,3-Dichlorobenzene	9.867	146	994665	85.091	ug/L		98
101)	1,4-Dichlorobenzene	9.925	146	1014792	83.895	ug/L		98
102)	p-Diethylbenzene	10.051	119	1072163	86.245	ug/L		96
103)	n-Butylbenzene	10.082	91	1778943	85.592	ug/L		99
104)	1,2-Dichlorobenzene	10.161	146	939024	82.939	ug/L		97
105)	1,2,4,5-Tetramethylben...	10.502	119	1758750	86.583	ug/L		97
106)	1,2-Dibromo-3-chloropr...	10.617	155	86174	86.247	ug/L		91
107)	1,3,5-Trichlorobenzene	10.633	180	727392	85.827	ug/L		95
108)	Hexachlorobutadiene	10.979	225	318638	84.975	ug/L		96
109)	1,2,4-Trichlorobenzene	10.994	180	708458	85.960	ug/L		99
110)	Naphthalene	11.167	128	1595287	85.749	ug/L		100
111)	1,2,3-Trichlorobenzene	11.272	180	669379	87.064	ug/L		99

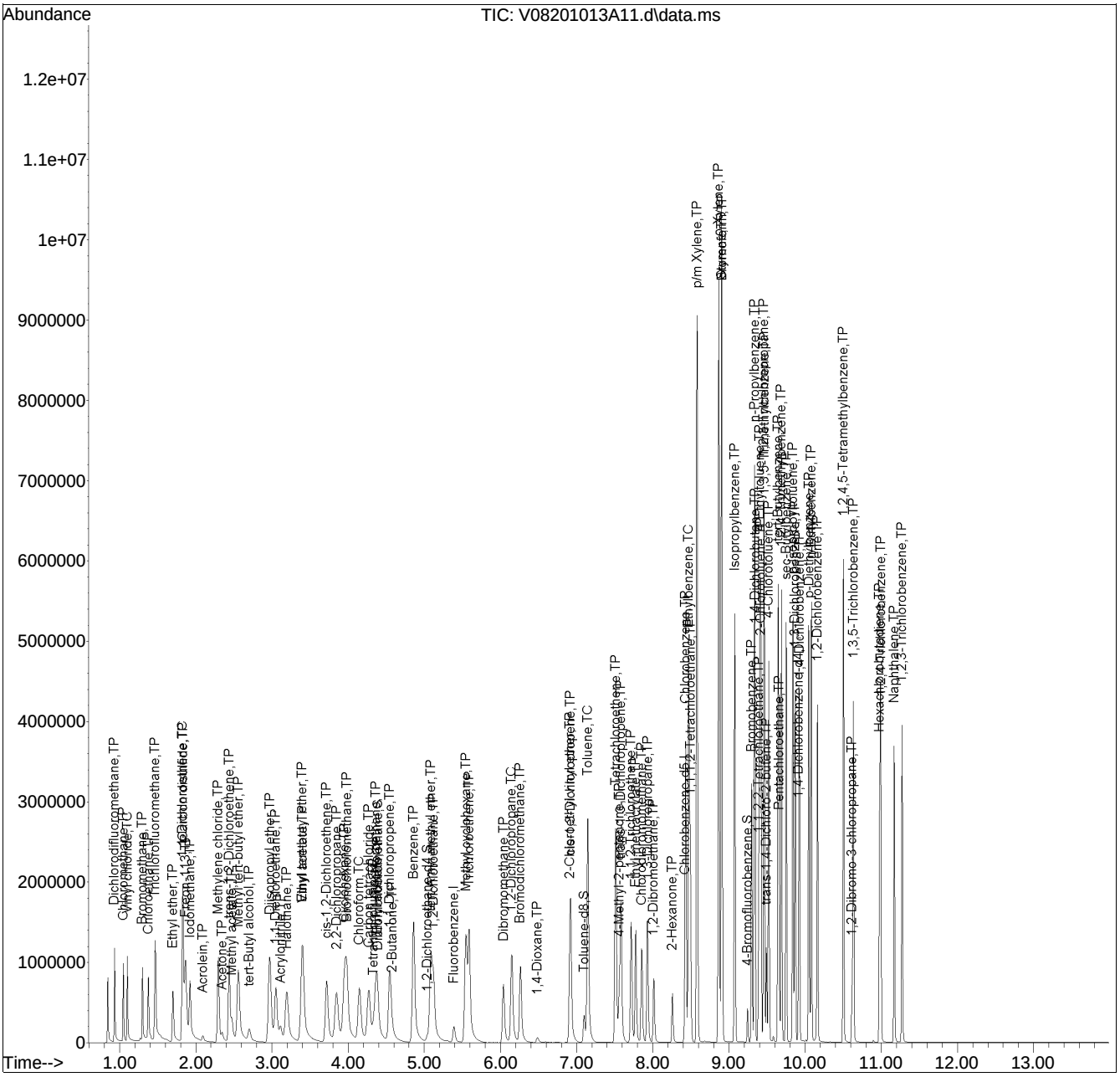
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A11.d
Acq On : 13 Oct 2020 5:35 pm
Operator : VOA108:PD
Sample : I8260STDL80PPB
Misc : WG1422060
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 14 11:47:01 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:44:03 2020
Response via : Initial Calibration

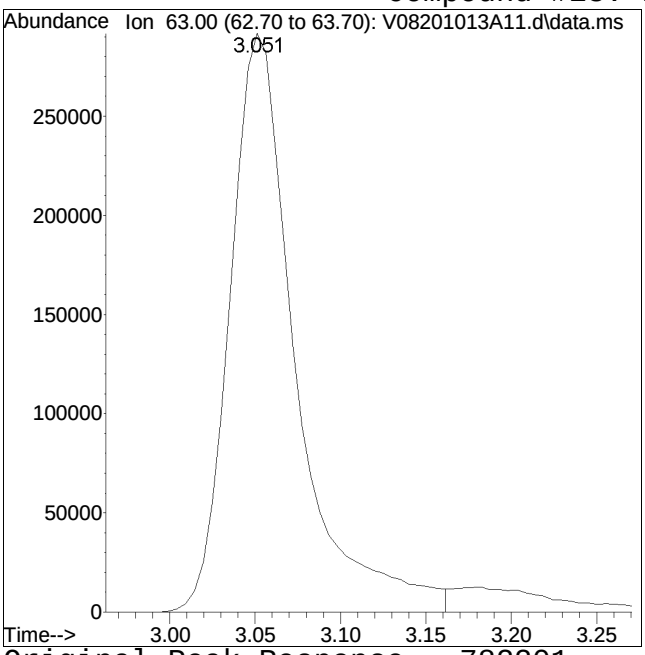
Sub List : 8260-CurvePenta - All compounds listed08201013A09.d•



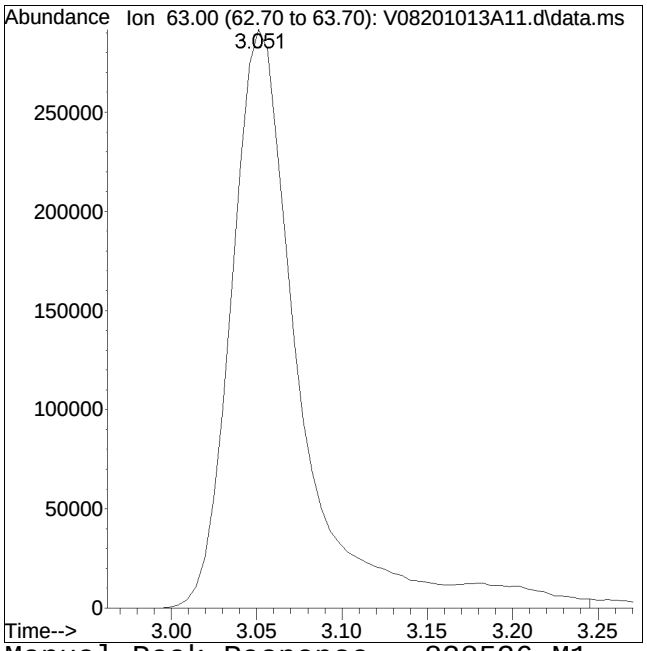
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A11.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 5:35 pm Instrument : VOA 108
Sample : I8260STDL80PPB Quant Date : 10/14/2020 11:46 am

Compound #23: 1,1-Dichloroethane



Original Peak Response = 782201



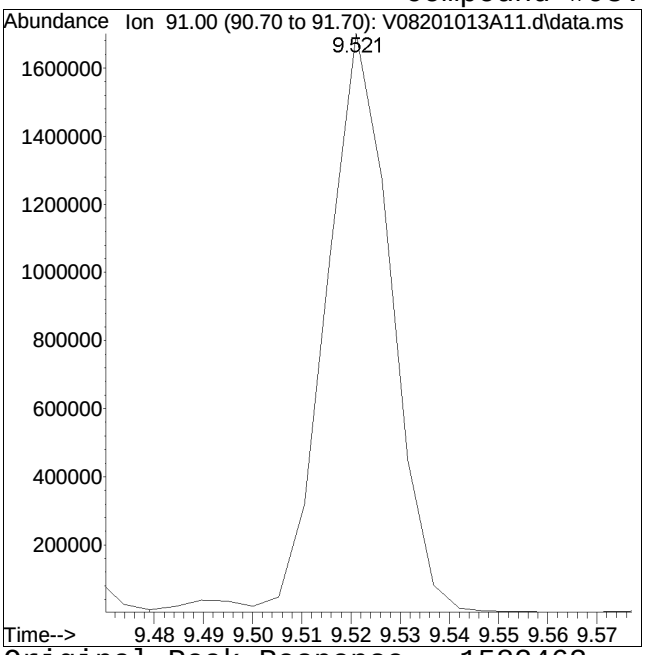
Manual Peak Response = 828536 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

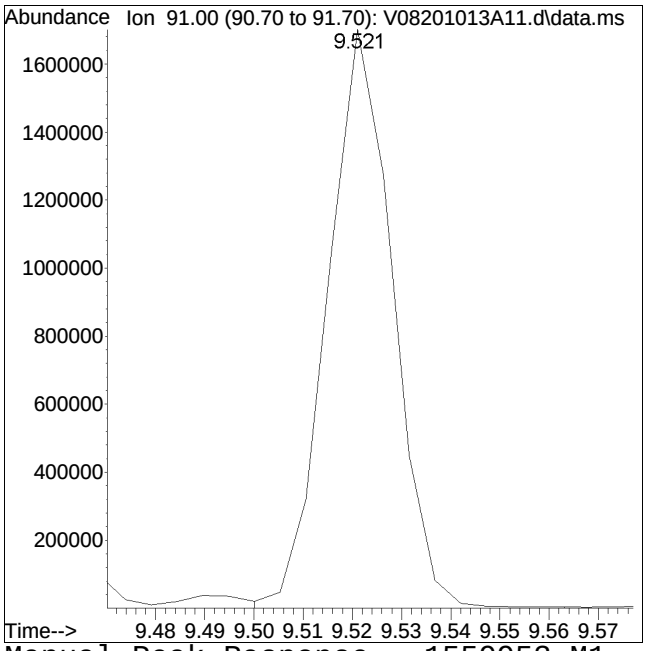
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A11.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 5:35 pm Instrument : VOA 108
Sample : I8260STDL80PPB Quant Date : 10/14/2020 11:46 am

Compound #93: 4-Chlorotoluene



Original Peak Response = 1582463



Manual Peak Response = 1559953 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A12.d
Acq On : 13 Oct 2020 5:57 pm
Operator : VOA108:PD
Sample : I8260STDL120PPB
Misc : WG1422060
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 14 11:47:09 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:44:03 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201013A\V08201013A09.d
Sub List : 8260-CurvePenta - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.390	96	225110	10.000	ug/L	0.00
Standard Area 1 = 229151			Recovery = 98.24%			
59) Chlorobenzene-d5	8.420	117	166389	10.000	ug/L	0.00
Standard Area 1 = 167273			Recovery = 99.47%			
79) 1,4-Dichlorobenzene-d4	9.914	152	82020	10.000	ug/L	0.00
Standard Area 1 = 90544			Recovery = 90.59%			
System Monitoring Compounds						
36) Dibromofluoromethane	4.388	113	56892	10.078	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.78%			
43) 1,2-Dichloroethane-d4	5.038	65	63217	9.610	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.10%			
60) Toluene-d8	7.099	98	217092	9.867	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.67%			
83) 4-Bromofluorobenzene	9.243	95	79560	10.120	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.20%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.933	85	817353	130.888	ug/L	99
3) Chloromethane	1.048	50	687232	118.869	ug/L	98
4) Vinyl chloride	1.101	62	801863	131.592	ug/L	94
5) Bromomethane	1.300	94	515640	130.704	ug/L	98
6) Chloroethane	1.379	64	569210	119.351	ug/L	95
7) Trichlorofluoromethane	1.468	101	1298031	135.387	ug/L	96
8) Ethyl ether	1.704	74	376840	127.428	ug/L #	60
10) 1,1-Dichloroethene	1.824	96	623729	125.339	ug/L #	62
11) Carbon disulfide	1.830	76	1580980	130.021	ug/L	96
12) Freon-113	1.866	101	610475	132.827	ug/L	93
13) Iodomethane	1.924	142	934320	138.933	ug/L	85
14) Acrolein	2.092	56	81454M1	117.775	ug/L	
15) Methylene chloride	2.296	84	704079	118.460	ug/L	67
17) Acetone	2.349	43	146620	118.453	ug/L	98
18) trans-1,2-Dichloroethene	2.438	96	642008	123.200	ug/L	74
19) Methyl acetate	2.474	43	368021	128.636	ug/L #	86
20) Methyl tert-butyl ether	2.558	73	1841368	124.777	ug/L	91
21) tert-Butyl alcohol	2.705	59	325626	593.256	ug/L #	64
22) Diisopropyl ether	2.973	45	2064658	124.625	ug/L #	89
23) 1,1-Dichloroethane	3.051	63	1245177M1	125.729	ug/L	
24) Halothane	3.193	117	509756	124.567	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A12.d
Acq On : 13 Oct 2020 5:57 pm
Operator : VOA108:PD
Sample : I8260STDL120PPB
Misc : WG1422060
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 14 11:47:09 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:44:03 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201013A\V08201013A09.d
Sub List : 8260-CurvePenta - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	3.114	53	188979	115.820	ug/L		95
26) Ethyl tert-butyl ether	3.397	59	2081909	124.761	ug/L		93
27) Vinyl acetate	3.402	43	1151872	111.854	ug/L	#	94
28) cis-1,2-Dichloroethene	3.717	96	798434	123.124	ug/L	#	64
29) 2,2-Dichloropropane	3.848	77	1009146	119.534	ug/L		91
30) Bromochloromethane	3.984	128	350530	123.817	ug/L	#	54
31) Cyclohexane	3.953	56	1060233	123.217	ug/L	#	62
32) Chloroform	4.147	83	1249345	121.560	ug/L		96
33) Ethyl acetate	4.383	43	532237	118.441	ug/L	#	95
34) Carbon tetrachloride	4.273	117	892838	129.883	ug/L		99
35) Tetrahydrofuran	4.330	42	151331	120.247	ug/L	#	45
37) 1,1,1-Trichloroethane	4.367	97	1130228	128.169	ug/L	#	95
39) 2-Butanone	4.577	43	266421	128.663	ug/L	#	34
40) 1,1-Dichloropropene	4.545	75	930859	129.076	ug/L		95
41) Benzene	4.860	78	2725305	124.006	ug/L		90
42) tert-Amyl methyl ether	5.085	73	2006251	125.226	ug/L		88
44) 1,2-Dichloroethane	5.122	62	946616	125.420	ug/L		97
47) Methyl cyclohexane	5.547	83	1153774	129.969	ug/L	#	67
48) Trichloroethene	5.589	95	752258	126.167	ug/L		97
50) Dibromomethane	6.040	93	465928	127.046	ug/L		95
51) 1,2-Dichloropropane	6.150	63	713421	125.119	ug/L		96
53) 2-Chloroethyl vinyl ether	6.910	63	447458	138.026	ug/L		89
54) Bromodichloromethane	6.260	83	1034515	126.431	ug/L		99
57) 1,4-Dioxane	6.491	88	60237	1219.431	ug/L	#	72
58) cis-1,3-Dichloropropene	6.921	75	1236210	126.697	ug/L		93
61) Toluene	7.146	92	1764172	122.464	ug/L		97
62) 4-Methyl-2-pentanone	7.560	58	238986	122.994	ug/L	#	93
63) Tetrachloroethene	7.513	166	1259342	138.224	ug/L		92
65) trans-1,3-Dichloropropene	7.581	75	1144204	126.526	ug/L		96
67) Ethyl methacrylate	7.775	69	881134	121.957	ug/L		99
68) 1,1,2-Trichloroethane	7.717	83	532870	121.511	ug/L		96
69) Chlorodibromomethane	7.854	129	746153	125.277	ug/L		98
70) 1,3-Dichloropropane	7.932	76	1070766	121.453	ug/L		99
71) 1,2-Dibromoethane	8.011	107	634067	123.279	ug/L		99
72) 2-Hexanone	8.258	43	432787	124.666	ug/L		95
73) Chlorobenzene	8.431	112	1874752	121.395	ug/L		93
74) Ethylbenzene	8.472	91	3314577	122.018	ug/L		99
75) 1,1,1,2-Tetrachloroethane	8.493	131	733929	124.409	ug/L		96
76) p/m Xylene	8.583	106	2546465	244.830	ug/L		96
77) o Xylene	8.866	106	2362372	243.424	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A12.d
Acq On : 13 Oct 2020 5:57 pm
Operator : VOA108:PD
Sample : I8260STDL120PPB
Misc : WG1422060
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 14 11:47:09 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:44:03 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201013A\V08201013A09.d
Sub List : 8260-CurvePenta - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	8.902	104	4153836	252.934	ug/L		93
80) Bromoform	8.908	173	525271	130.197	ug/L		96
82) Isopropylbenzene	9.075	105	3164667	124.503	ug/L		97
84) Bromobenzene	9.301	156	810185	124.603	ug/L		98
85) n-Propylbenzene	9.338	91	3724041	124.184	ug/L		97
86) 1,4-Dichlorobutane	9.343	55	923218	122.312	ug/L		98
87) 1,1,2,2-Tetrachloroethane	9.390	83	727984	120.567	ug/L		96
88) 4-Ethyltoluene	9.406	105	2947327	124.210	ug/L		97
89) 2-Chlorotoluene	9.421	91	2513763	122.717	ug/L		97
90) 1,3,5-Trimethylbenzene	9.463	105	2596715	122.392	ug/L		92
91) 1,2,3-Trichloropropane	9.458	75	612256	122.824	ug/L		98
92) trans-1,4-Dichloro-2-b...	9.490	53	202430M1	125.212	ug/L		
93) 4-Chlorotoluene	9.521	91	2243416	121.797	ug/L		96
94) tert-Butylbenzene	9.647	119	2210298	116.670	ug/L		97
95) Pentachloroethane	9.657	167	127219	65.622	ug/L	#	73
97) 1,2,4-Trimethylbenzene	9.689	105	2530149	121.001	ug/L		94
98) sec-Butylbenzene	9.752	105	2993211	121.382	ug/L		97
99) p-Isopropyltoluene	9.841	119	2661458	122.194	ug/L		96
100) 1,3-Dichlorobenzene	9.867	146	1459268	122.713	ug/L		98
101) 1,4-Dichlorobenzene	9.925	146	1479108	120.201	ug/L		97
102) p-Diethylbenzene	10.051	119	1539388	121.723	ug/L		96
103) n-Butylbenzene	10.082	91	2529185	119.619	ug/L		99
104) 1,2-Dichlorobenzene	10.161	146	1384656	120.219	ug/L		97
105) 1,2,4,5-Tetramethylben...	10.502	119	2584311	125.062	ug/L		96
106) 1,2-Dibromo-3-chloropr...	10.617	155	134053	131.884	ug/L		91
107) 1,3,5-Trichlorobenzene	10.633	180	1078050	125.038	ug/L		94
108) Hexachlorobutadiene	10.979	225	456774	119.741	ug/L		96
109) 1,2,4-Trichlorobenzene	10.989	180	1051879	125.458	ug/L		99
110) Naphthalene	11.167	128	2420192	127.876	ug/L		100
111) 1,2,3-Trichlorobenzene	11.272	180	989136	126.466	ug/L		100

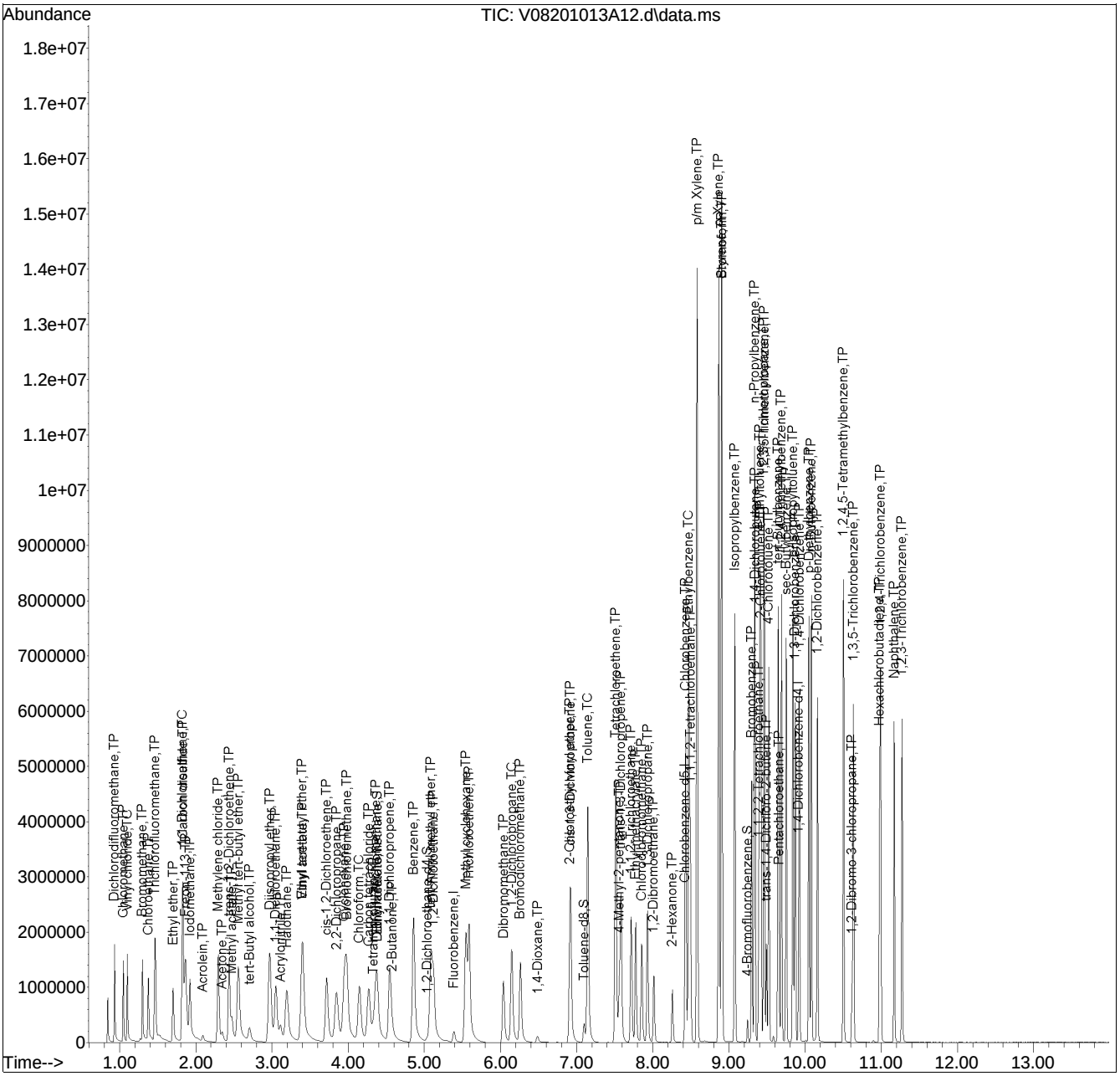
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A12.d
Acq On : 13 Oct 2020 5:57 pm
Operator : VOA108:PD
Sample : I8260STDL120PPB
Misc : WG1422060
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 14 11:47:09 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:44:03 2020
Response via : Initial Calibration

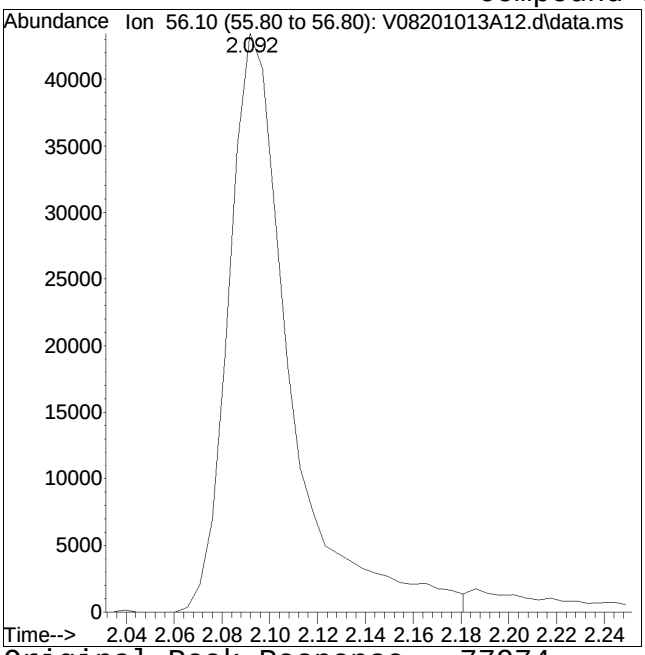
Sub List : 8260-CurvePenta - All compounds listed08201013A09.d•



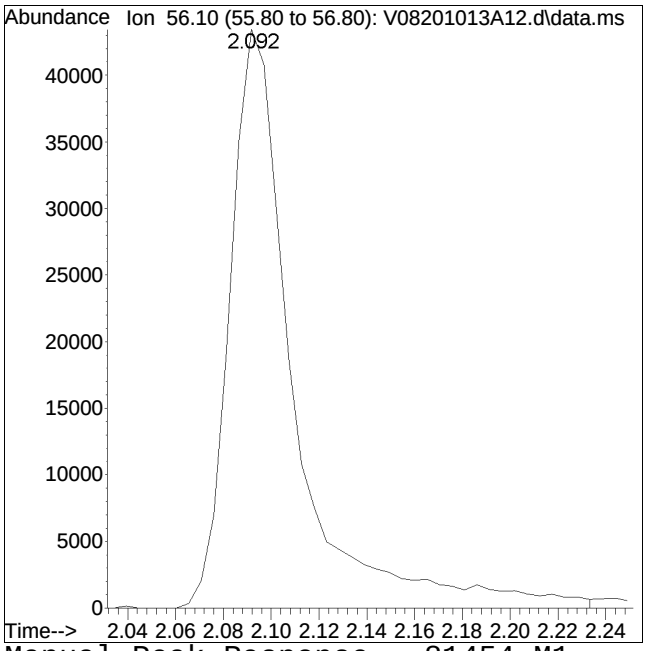
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A12.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 5:57 pm Instrument : VOA 108
Sample : I8260STDL120PPB Quant Date : 10/14/2020 11:47 am

Compound #14: Acrolein



Original Peak Response = 77974



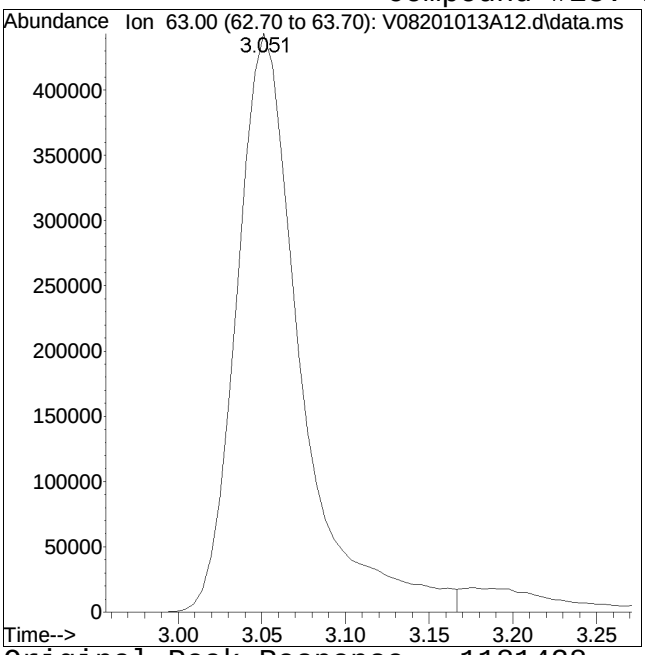
Manual Peak Response = 81454 M1

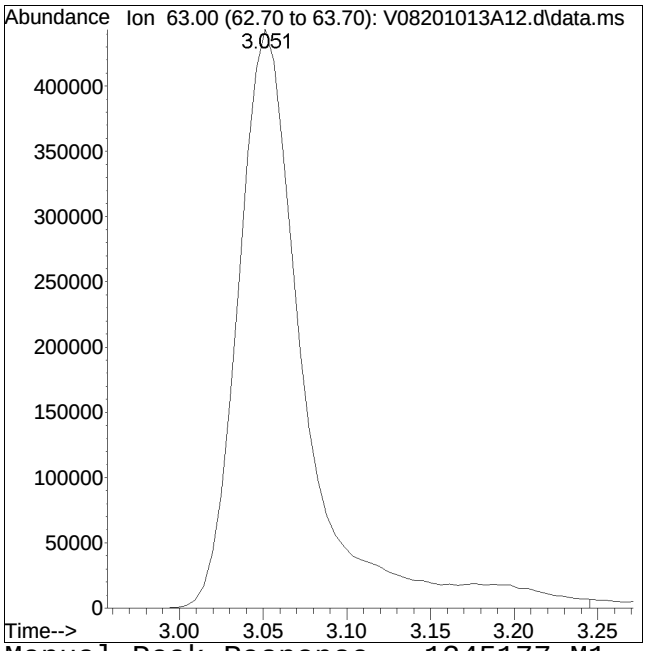
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A12.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 5:57 pm Instrument : VOA 108
Sample : I8260STDL120PPB Quant Date : 10/14/2020 11:47 am

Compound #23: 1,1-Dichloroethane



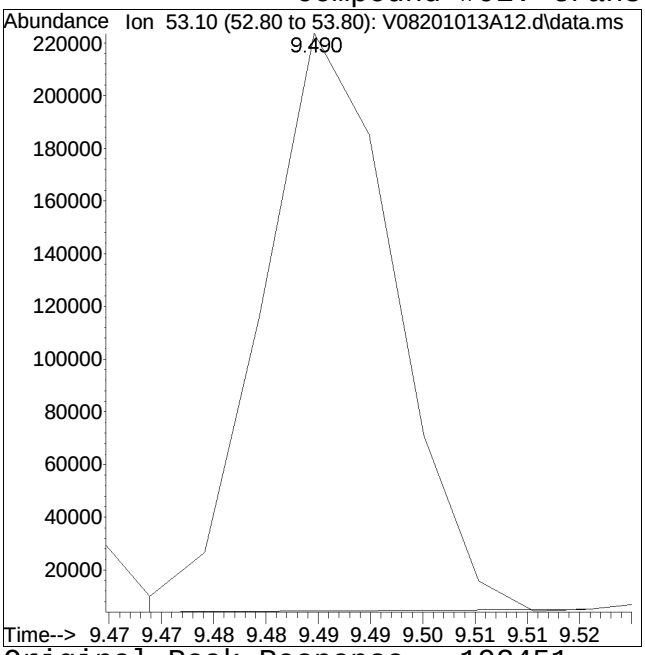


Original Peak Response = 1181428 Manual Peak Response = 1245177 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

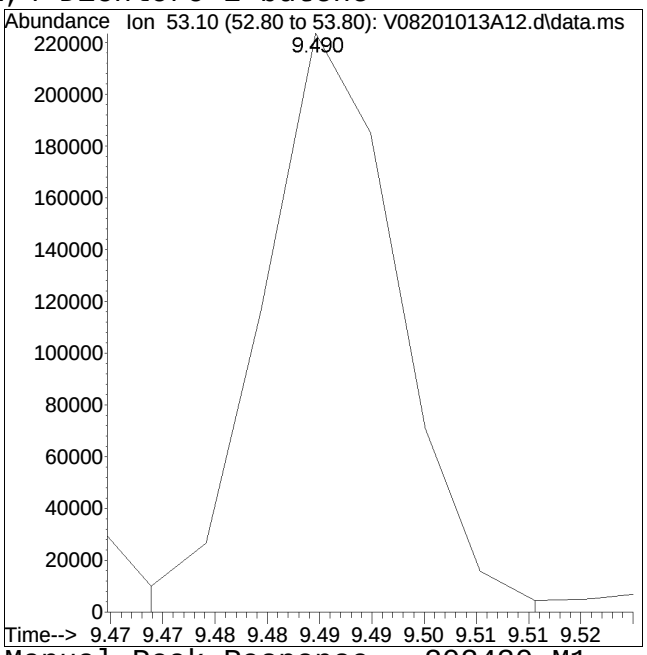
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A12.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 5:57 pm Instrument : VOA 108
Sample : I8260STDL120PPB Quant Date : 10/14/2020 11:47 am

Compound #92: trans-1,4-Dichloro-2-butene



Original Peak Response = 192451



Manual Peak Response = 202430 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A13.d
Acq On : 13 Oct 2020 6:19 pm
Operator : VOA108:PD
Sample : I8260STDL200PPB
Misc : WG1422060
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 14 11:47:16 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:44:03 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201013A\V08201013A09.d
Sub List : 8260-CurvePenta - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.389	96	220118	10.000	ug/L	0.00
Standard Area 1 = 229151			Recovery = 96.06%			
59) Chlorobenzene-d5	8.420	117	161377	10.000	ug/L	0.00
Standard Area 1 = 167273			Recovery = 96.48%			
79) 1,4-Dichlorobenzene-d4	9.914	152	78694	10.000	ug/L	0.00
Standard Area 1 = 90544			Recovery = 86.91%			
System Monitoring Compounds						
36) Dibromofluoromethane	4.393	113	55295	10.017	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.17%			
43) 1,2-Dichloroethane-d4	5.043	65	62730	9.752	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.52%			
60) Toluene-d8	7.099	98	211172	9.896	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.96%			
83) 4-Bromofluorobenzene	9.243	95	75729	10.040	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.40%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.933	85	1348732	220.880	ug/L	98
3) Chloromethane	1.048	50	1131616	200.173	ug/L	98
4) Vinyl chloride	1.101	62	1320714	221.654	ug/L	94
5) Bromomethane	1.300	94	884047	229.169	ug/L	99
6) Chloroethane	1.379	64	935841	200.676	ug/L	96
7) Trichlorofluoromethane	1.462	101	1988389	212.096	ug/L	96
8) Ethyl ether	1.704	74	615540	212.864	ug/L #	60
10) 1,1-Dichloroethene	1.824	96	1032903	212.270	ug/L #	63
11) Carbon disulfide	1.829	76	2615230	219.956	ug/L	96
12) Freon-113	1.861	101	1019461	226.844	ug/L	93
13) Iodomethane	1.924	142	1523509	231.683	ug/L	85
14) Acrolein	2.092	56	134629	199.075	ug/L	91
15) Methylene chloride	2.296	84	1148297	197.581	ug/L	67
17) Acetone	2.349	43	240714	198.881	ug/L	94
18) trans-1,2-Dichloroethene	2.438	96	1055665	207.174	ug/L	74
19) Methyl acetate	2.474	43	607203	217.051	ug/L #	87
20) Methyl tert-butyl ether	2.558	73	3007231	208.402	ug/L	91
21) tert-Butyl alcohol	2.710	59	534834	996.509	ug/L #	60
22) Diisopropyl ether	2.972	45	3382786	208.819	ug/L #	89
23) 1,1-Dichloroethane	3.051	63	2044763M1	211.147	ug/L	
24) Halothane	3.193	117	834278	208.492	ug/L	98

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A13.d
Acq On : 13 Oct 2020 6:19 pm
Operator : VOA108:PD
Sample : I8260STDL200PPB
Misc : WG1422060
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 14 11:47:16 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:44:03 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201013A\V08201013A09.d
Sub List : 8260-CurvePenta - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	3.114	53	311941	195.516	ug/L		96
26) Ethyl tert-butyl ether	3.397	59	3434895	210.509	ug/L		92
27) Vinyl acetate	3.402	43	2181040	214.805	ug/L	#	92
28) cis-1,2-Dichloroethene	3.717	96	1310542	206.678	ug/L	#	63
29) 2,2-Dichloropropane	3.848	77	1647687	199.596	ug/L		91
30) Bromochloromethane	3.984	128	564399	203.882	ug/L	#	55
31) Cyclohexane	3.953	56	1752604	208.301	ug/L	#	63
32) Chloroform	4.147	83	2049052	203.893	ug/L		96
33) Ethyl acetate	4.388	43	866407	197.178	ug/L	#	95
34) Carbon tetrachloride	4.267	117	1474731	219.398	ug/L		99
35) Tetrahydrofuran	4.325	42	246256	201.135	ug/L	#	45
37) 1,1,1-Trichloroethane	4.367	97	1839698	213.355	ug/L	#	95
39) 2-Butanone	4.577	43	424408	209.607	ug/L	#	35
40) 1,1-Dichloropropene	4.545	75	1529355	216.875	ug/L		96
41) Benzene	4.860	78	4463228	207.690	ug/L		89
42) tert-Amyl methyl ether	5.091	73	3281587	209.475	ug/L		87
44) 1,2-Dichloroethane	5.122	62	1545126	209.361	ug/L		97
47) Methyl cyclohexane	5.547	83	1899008	218.769	ug/L	#	67
48) Trichloroethene	5.589	95	1217460	208.820	ug/L		97
50) Dibromomethane	6.040	93	761038	212.220	ug/L		95
51) 1,2-Dichloropropane	6.150	63	1167281	209.359	ug/L		97
53) 2-Chloroethyl vinyl ether	6.910	63	745732	235.251	ug/L		89
54) Bromodichloromethane	6.260	83	1695340	211.891	ug/L		98
57) 1,4-Dioxane	6.485	88	101189	2094.914	ug/L	#	70
58) cis-1,3-Dichloropropene	6.920	75	2044210	214.259	ug/L		93
61) Toluene	7.146	92	2891202	206.933	ug/L		96
62) 4-Methyl-2-pentanone	7.565	58	381349	202.356	ug/L	#	94
63) Tetrachloroethene	7.513	166	1735949	196.453	ug/L		92
65) trans-1,3-Dichloropropene	7.586	75	1874330	213.700	ug/L		96
67) Ethyl methacrylate	7.775	69	1427773	203.754	ug/L		98
68) 1,1,2-Trichloroethane	7.717	83	859878	202.169	ug/L		96
69) Chlorodibromomethane	7.854	129	1188425	205.730	ug/L		99
70) 1,3-Dichloropropane	7.932	76	1719587	201.104	ug/L		99
71) 1,2-Dibromoethane	8.016	107	1017989	204.070	ug/L		99
72) 2-Hexanone	8.257	43	681860	202.512	ug/L		95
73) Chlorobenzene	8.430	112	3041059	203.032	ug/L		92
74) Ethylbenzene	8.472	91	5348678	203.013	ug/L		98
75) 1,1,1,2-Tetrachloroethane	8.493	131	1176716	205.661	ug/L		97
76) p/m Xylene	8.582	106	4157511	412.139	ug/L		93
77) o Xylene	8.871	106	3840237	407.997	ug/L		88

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A13.d
Acq On : 13 Oct 2020 6:19 pm
Operator : VOA108:PD
Sample : I8260STDL200PPB
Misc : WG1422060
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 14 11:47:16 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:44:03 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201013A\V08201013A09.d
Sub List : 8260-CurvePenta - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78)	Styrene	8.908	104	6601606	414.467	ug/L		95
80)	Bromoform	8.913	173	862568	222.838	ug/L		96
82)	Isopropylbenzene	9.075	105	4960170	203.389	ug/L		96
84)	Bromobenzene	9.301	156	1299009	208.226	ug/L		97
85)	n-Propylbenzene	9.337	91	5890242	204.721	ug/L		97
86)	1,4-Dichlorobutane	9.343	55	1465008	202.295	ug/L		99
87)	1,1,2,2-Tetrachloroethane	9.395	83	1176146	203.023	ug/L		96
88)	4-Ethyltoluene	9.411	105	4664989	204.907	ug/L		96
89)	2-Chlorotoluene	9.421	91	4025708	204.834	ug/L		96
90)	1,3,5-Trimethylbenzene	9.463	105	4136520	203.209	ug/L		91
91)	1,2,3-Trichloropropane	9.458	75	986848	206.337	ug/L		98
92)	trans-1,4-Dichloro-2-b...	9.495	53	307013	197.927	ug/L	#	59
93)	4-Chlorotoluene	9.526	91	3557975M1	201.330	ug/L		
94)	tert-Butylbenzene	9.647	119	3707127	203.949	ug/L		99
95)	Pentachloroethane	9.657	167	464563	249.760	ug/L		91
97)	1,2,4-Trimethylbenzene	9.689	105	4029379	200.843	ug/L		93
98)	sec-Butylbenzene	9.752	105	4643429	196.261	ug/L		96
99)	p-Isopropyltoluene	9.841	119	4224208	202.141	ug/L		96
100)	1,3-Dichlorobenzene	9.872	146	2344545	205.491	ug/L		98
101)	1,4-Dichlorobenzene	9.925	146	2398250	203.133	ug/L		97
102)	p-Diethylbenzene	10.051	119	2491274	205.317	ug/L		95
103)	n-Butylbenzene	10.082	91	4024472	198.384	ug/L		98
104)	1,2-Dichlorobenzene	10.161	146	2245809	203.228	ug/L		98
105)	1,2,4,5-Tetramethylben...	10.507	119	4187520	211.210	ug/L		95
106)	1,2-Dibromo-3-chloropr...	10.617	155	222309	227.957	ug/L		92
107)	1,3,5-Trichlorobenzene	10.638	180	1770111	213.985	ug/L		95
108)	Hexachlorobutadiene	10.979	225	782051	213.676	ug/L		96
109)	1,2,4-Trichlorobenzene	10.994	180	1741800	216.526	ug/L		99
110)	Naphthalene	11.173	128	3850356	212.040	ug/L		100
111)	1,2,3-Trichlorobenzene	11.272	180	1618221	215.642	ug/L		100

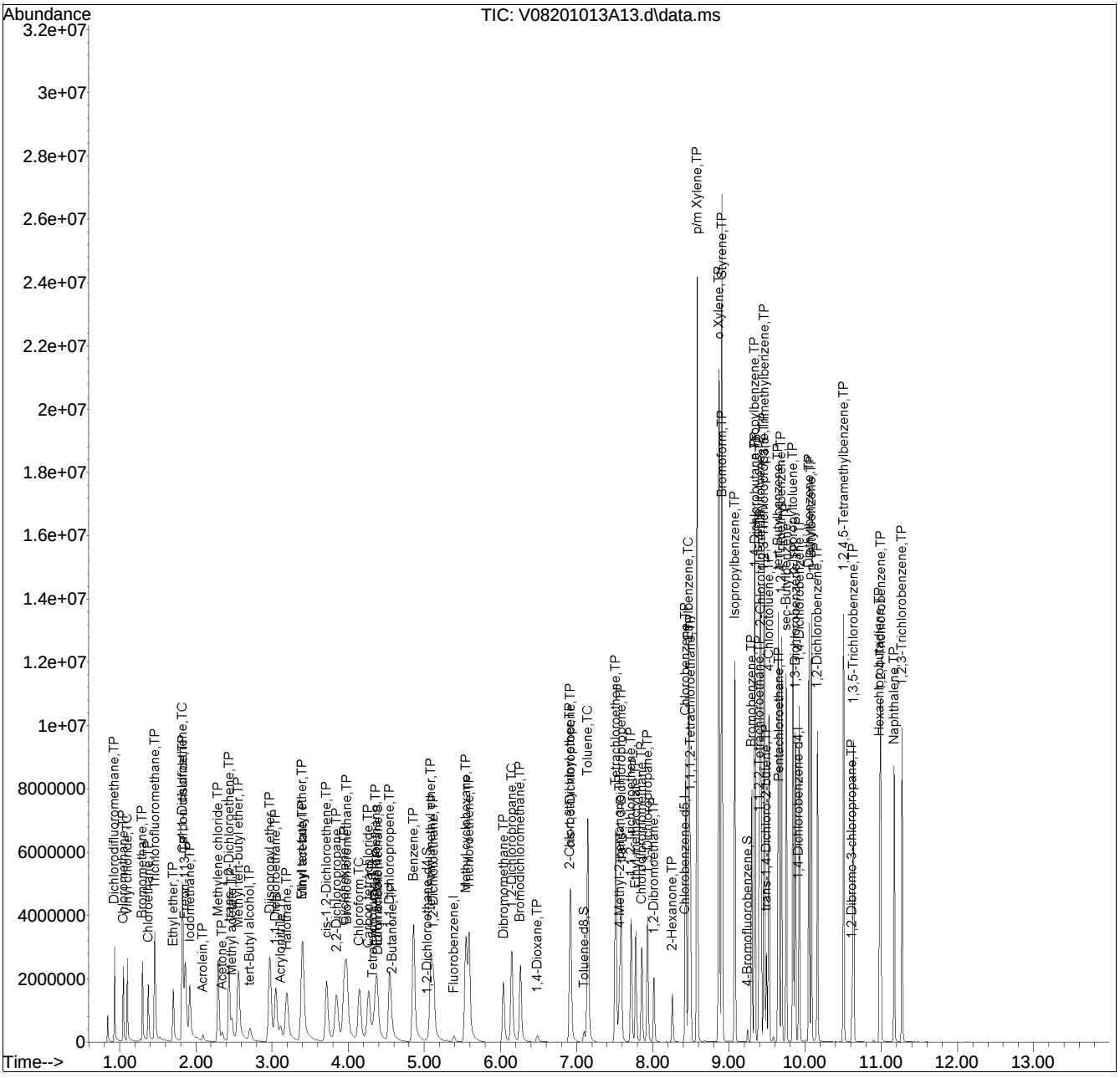
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A13.d
Acq On : 13 Oct 2020 6:19 pm
Operator : VOA108:PD
Sample : I8260STDL200PPB
Misc : WG1422060
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 14 11:47:16 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:44:03 2020
Response via : Initial Calibration

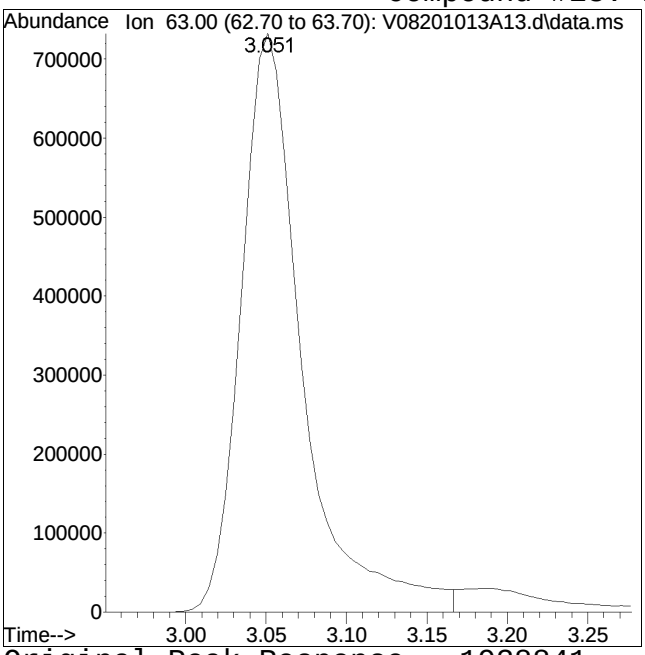
Sub List : 8260-CurvePenta - All compounds listed08201013A09.d•



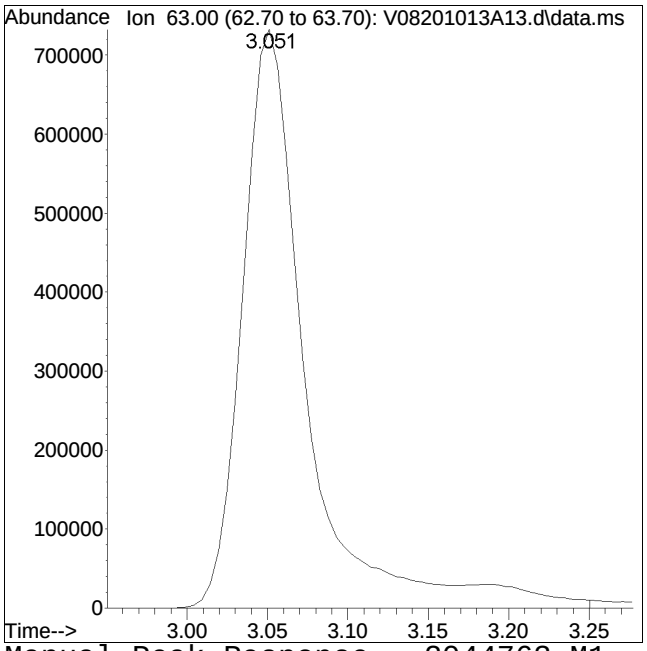
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A13.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 6:19 pm Instrument : VOA 108
Sample : I8260STDL200PPB Quant Date : 10/14/2020 11:47 am

Compound #23: 1,1-Dichloroethane



Original Peak Response = 1938841



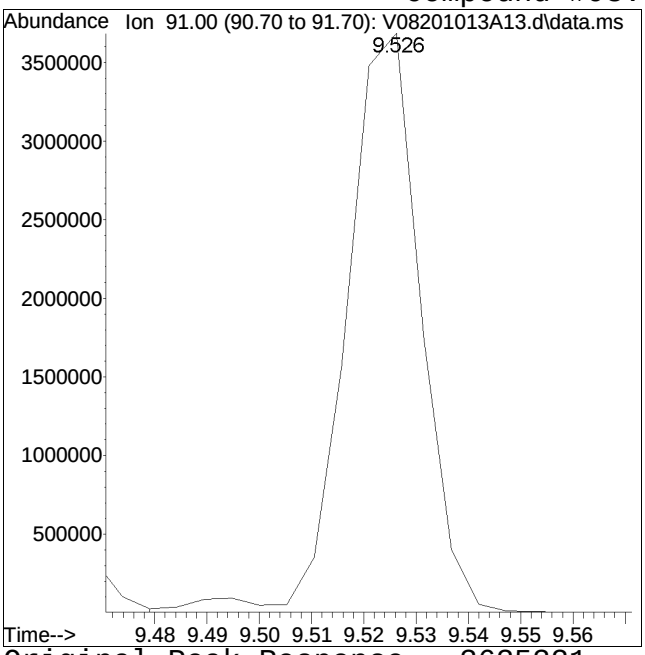
Manual Peak Response = 2044763 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

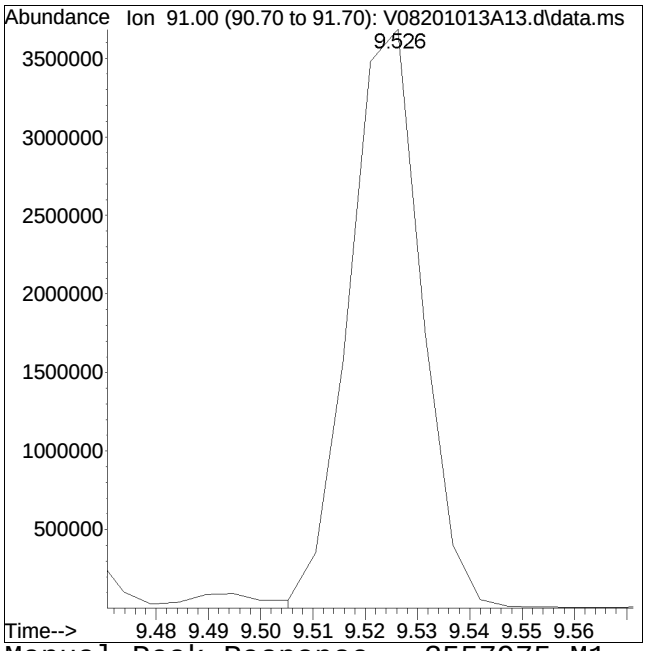
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201013A13.d Operator : VOA108:PD
Date Inj'd : 10/13/2020 6:19 pm Instrument : VOA 108
Sample : I8260STDL200PPB Quant Date : 10/14/2020 11:47 am

Compound #93: 4-Chlorotoluene



Original Peak Response = 3635321



Manual Peak Response = 3557975 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A19.d
Acq On : 13 Oct 2020 8:31 pm
Operator : VOA108:PD
Sample : C8260STDL10PPB
Misc : WG1422060
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 14 11:48:59 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	93	0.00
11	TP	Carbon disulfide	0.540	0.664	-23.0#	111	0.00
36	S	Dibromofluoromethane	0.251	0.255	-1.6	93	0.00
43	S	1,2-Dichloroethane-d4	0.292	0.291	0.3	96	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00
60	S	Toluene-d8	1.322	1.311	0.8	91	0.00
63	TP	Tetrachloroethene	0.548	0.599	-9.3	93	0.00
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	87	0.00
83	S	4-Bromofluorobenzene	0.958	0.940	1.9	89	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A19.d
Acq On : 13 Oct 2020 8:31 pm
Operator : VOA108:PD
Sample : C8260STDL10PPB
Misc : WG1422060
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 14 11:48:59 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201013A\V08201013A09.d
Sub List : 8260-CS2+PCE - CS2+PCE ONLY

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.389	96	212130	10.000	ug/L	0.00
Standard Area 1 = 229151			Recovery = 92.57%			
59) Chlorobenzene-d5	8.420	117	153350	10.000	ug/L	0.00
Standard Area 1 = 167273			Recovery = 91.68%			
79) 1,4-Dichlorobenzene-d4	9.914	152	78656	10.000	ug/L	0.00
Standard Area 1 = 90544			Recovery = 86.87%			
System Monitoring Compounds						
36) Dibromofluoromethane	4.393	113	54045	10.159	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.59%			
43) 1,2-Dichloroethane-d4	5.038	65	61742	9.960	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.60%			
60) Toluene-d8	7.099	98	200971	9.911	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.11%			
83) 4-Bromofluorobenzene	9.243	95	73951	9.809	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.09%			
Target Compounds						Qvalue
11) Carbon disulfide	1.835	76	140828	12.290	ug/L	95
63) Tetrachloroethene	7.513	166	91783	10.931	ug/L	92

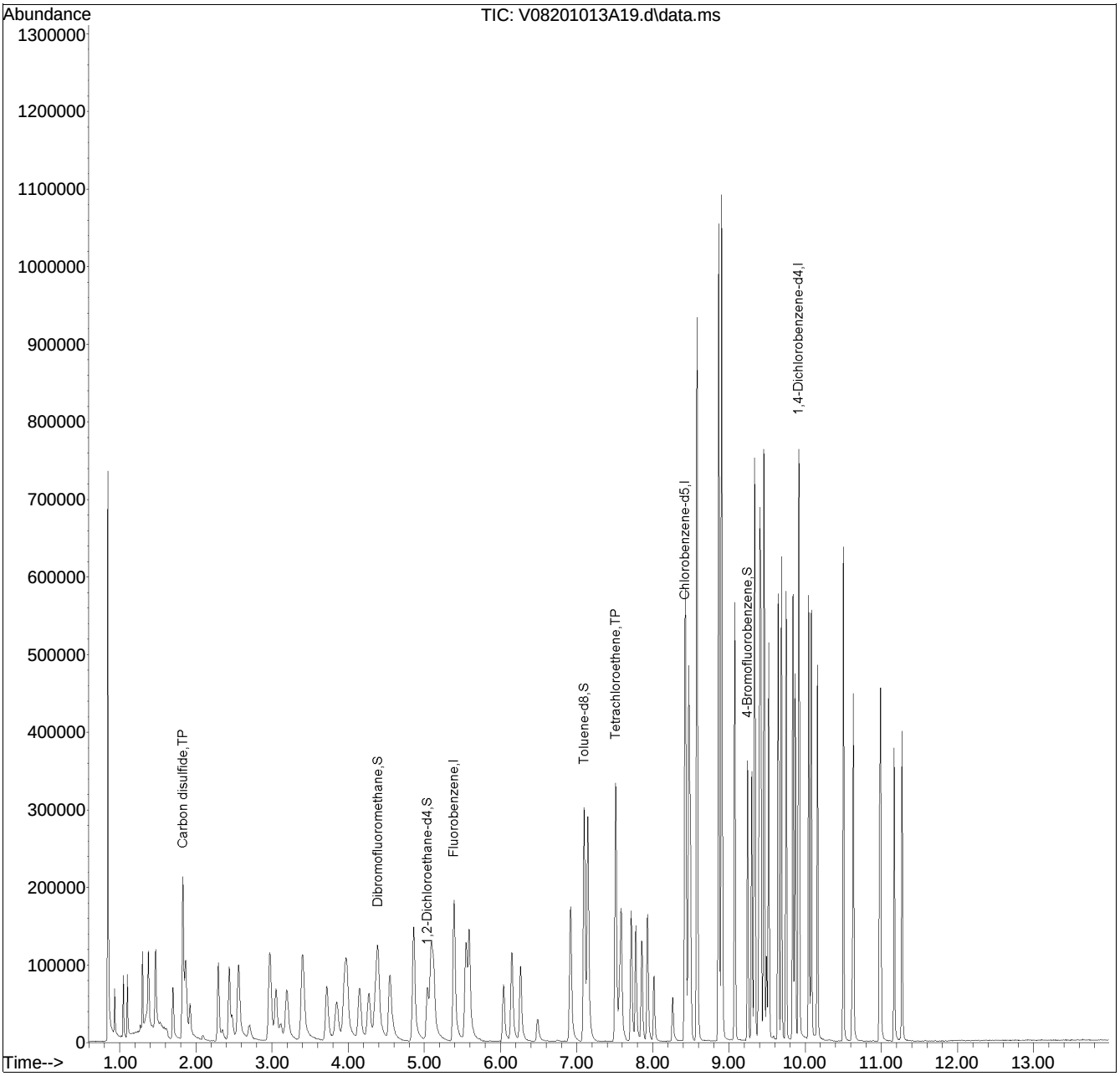
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201013A19.d
Acq On : 13 Oct 2020 8:31 pm
Operator : VOA108:PD
Sample : C8260STDL10PPB
Misc : WG1422060
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 14 11:48:59 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
Response via : Initial Calibration

Sub List : 8260-CS2+PCE - CS2+PCE ONLY0\201013A\V08201013A09.d•



Manual Integration Report

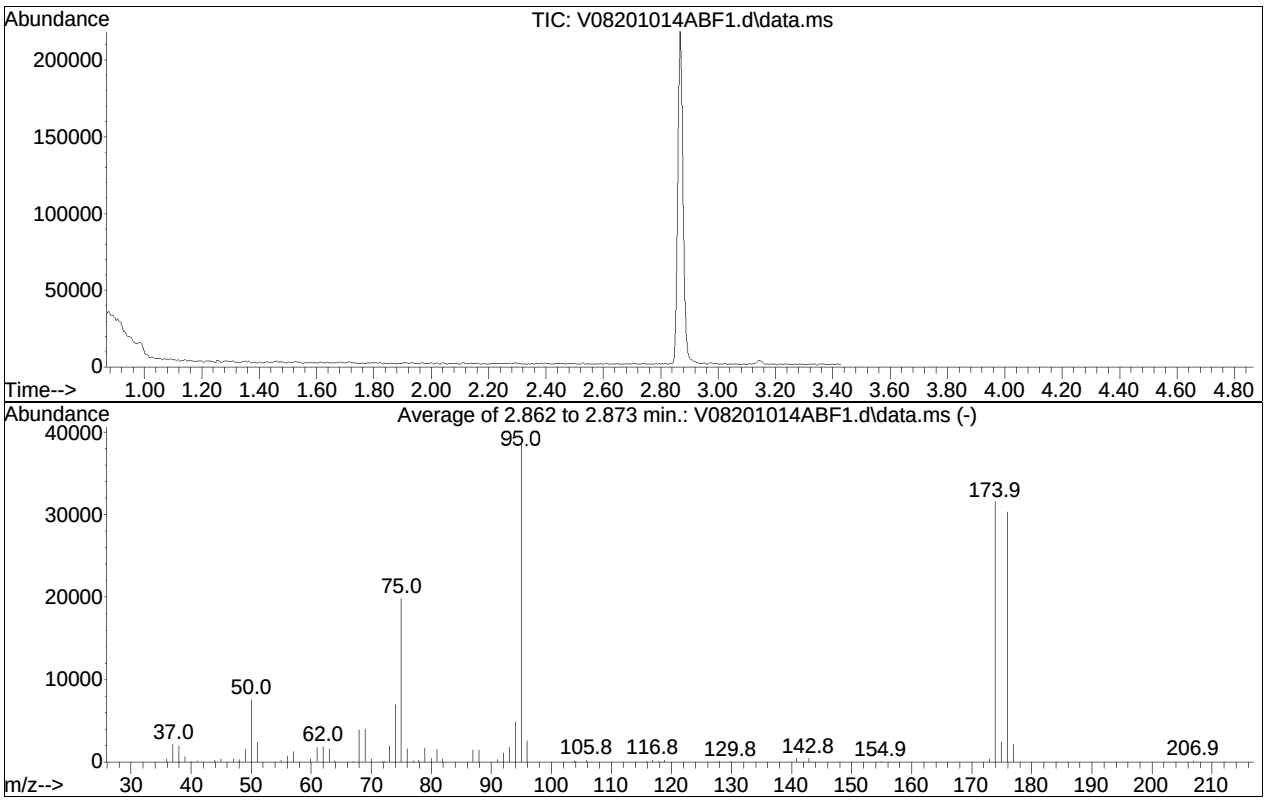
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Data File	: V08201013A19.d	Operator	: VOA108:PD
Date Inj'd	: 10/13/2020 8:31 pm	Instrument	: VOA 108
Sample	: C8260STDL10PPB	Quant Date	: 10/14/2020 11:48 am

There are no manual integrations or false positives in this file.

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201014ABF1.d
Acq On : 14 Oct 2020 1:19 pm
Operator : VOA108:MKS
Sample : WG1422060-2
Misc : WG1422060
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA108\2020\201014A\V108_201013A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Oct 14 11:43:29 2020



AutoFind: Scans 434, 435, 436; Background Corrected with Scan 427

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.6	7574	PASS
75	95	30	60	51.2	19840	PASS
95	95	100	100	100.0	38720	PASS
96	95	5	9	6.7	2602	PASS
173	174	0.00	2	1.2	372	PASS
174	95	50	100	81.6	31603	PASS
175	174	5	9	7.8	2461	PASS
176	174	95	101	95.9	30312	PASS
177	176	5	9	7.2	2183	PASS

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201014A02.d
Acq On : 14 Oct 2020 2:04 pm
Operator : VOA108:MKS
Sample : C8260STDL10PPB
Misc : WG1422060
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 14 14:25:44 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	91	0.00
2	TP	Dichlorodifluoromethane	0.277	0.208	24.9#	65	0.00
3	TP	Chloromethane	0.257	0.209	18.7	73	0.00
4	TC	Vinyl chloride	0.271	0.244	10.0	74	0.00
5	TP	Bromomethane	0.175	0.210	-20.0#	122	0.00
6	TP	Chloroethane	0.212	0.206	2.8	82	0.00
7	TP	Trichlorofluoromethane	0.426	0.426	0.0	86	0.00
8	TP	Ethyl ether	0.131	0.129	1.5	87	0.00
10	TC	1,1-Dichloroethene	0.221	0.195	11.8	80	0.00
12	TP	Freon-113	0.204	0.235	-15.2	97	0.00
13	TP	Iodomethane	0.299	0.233	22.1#	71	0.00
14	TP	Acrolein	0.031	0.022#	29.0#	68	0.00
15	TP	Methylene chloride	0.264	0.216	18.2	73	0.00
17	TP	Acetone	0.055	0.059#	-7.3	96	0.00
18	TP	trans-1,2-Dichloroethene	0.231	0.209	9.5	79	0.00
19	TP	Methyl acetate	0.127	0.121	4.7	93	0.00
20	TP	Methyl tert-butyl ether	0.656	0.654	0.3	88	0.00
21	TP	tert-Butyl alcohol	0.024	0.025#	-4.2	92	0.00
22	TP	Diisopropyl ether	0.736	0.747	-1.5	91	0.00
23	TP	1,1-Dichloroethane	0.440	0.360	18.2	71	0.00
24	TP	Halothane	0.182	0.198	-8.8	93	0.00
25	TP	Acrylonitrile	0.072	0.064	11.1	81	0.00
26	TP	Ethyl tert-butyl ether	0.741	0.749	-1.1	90	0.00
27	TP	Vinyl acetate	* 10.000	10.534	-5.3	115	0.00
28	TP	cis-1,2-Dichloroethene	0.288	0.248	13.9	74	-0.01
29	TP	2,2-Dichloropropane	0.375	0.363	3.2	85	-0.01
30	TP	Bromochloromethane	0.126	0.116	7.9	78	0.00
31	TP	Cyclohexane	0.382	0.412	-7.9	95	0.00
32	TC	Chloroform	0.457	0.409	10.5	79	0.00
33	TP	Ethyl acetate	0.200	0.173	13.5	73	0.00
34	TP	Carbon tetrachloride	0.305	0.284	6.9	78	-0.01
35	TP	Tetrahydrofuran	* 10.000	7.809	21.9#	68	-0.01
36	S	Dibromofluoromethane	0.251	0.250	0.4	90	0.00
37	TP	1,1,1-Trichloroethane	0.392	0.368	6.1	82	0.00
39	TP	2-Butanone	0.092	0.075#	18.5	74	-0.01
40	TP	1,1-Dichloropropene	0.320	0.307	4.1	84	0.00
41	TP	Benzene	0.976	0.872	10.7	79	0.00
42	TP	tert-Amyl methyl ether	0.712	0.691	2.9	86	0.00
43	S	1,2-Dichloroethane-d4	0.292	0.280	4.1	91	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201014A02.d
Acq On : 14 Oct 2020 2:04 pm
Operator : VOA108:MKS
Sample : C8260STDL10PPB
Misc : WG1422060
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 14 14:25:44 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44	TP	1,2-Dichloroethane	0.335	0.301	10.1	80	0.00
47	TP	Methyl cyclohexane	0.394	0.418	-6.1	92	0.00
48	TP	Trichloroethene	0.265	0.235	11.3	79	0.00
50	TP	Dibromomethane	0.163	0.146	10.4	80	0.00
51	TC	1,2-Dichloropropane	0.253	0.230	9.1	80	0.00
53	TP	2-Chloroethyl vinyl ether	0.144	0.161	-11.8	98	0.00
54	TP	Bromodichloromethane	0.363	0.322	11.3	79	0.00
57	TP	1,4-Dioxane	0.00219	0.00197#	10.0	80	0.00
58	TP	cis-1,3-Dichloropropene	0.433	0.381	12.0	80	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.00
60	S	Toluene-d8	1.322	1.302	1.5	90	0.00
61	TC	Toluene	0.866	0.808	6.7	84	0.00
62	TP	4-Methyl-2-pentanone	0.117	0.121	-3.4	92	0.00
65	TP	trans-1,3-Dichloropropene	0.544	0.486	10.7	81	0.00
67	TP	Ethyl methacrylate	0.434	0.438	-0.9	94	0.00
68	TP	1,1,2-Trichloroethane	0.264	0.242	8.3	83	0.00
69	TP	Chlorodibromomethane	0.358	0.352	1.7	89	0.00
70	TP	1,3-Dichloropropane	0.530	0.485	8.5	82	0.00
71	TP	1,2-Dibromoethane	0.309	0.286	7.4	83	0.00
72	TP	2-Hexanone	0.209	0.220	-5.3	97	0.00
73	TP	Chlorobenzene	0.928	0.890	4.1	86	0.00
74	TC	Ethylbenzene	1.633	1.548	5.2	84	0.00
75	TP	1,1,1,2-Tetrachloroethane	0.355	0.345	2.8	86	0.00
76	TP	p/m Xylene	0.625	0.593	5.1	83	0.00
77	TP	o Xylene	0.583	0.598	-2.6	90	0.00
78	TP	Styrene	0.987	1.021	-3.4	92	0.00
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	88	0.00
80	TP	Bromoform	0.492	0.447	9.1	86	0.00
82	TP	Isopropylbenzene	3.099	2.963	4.4	84	0.00
83	S	4-Bromofluorobenzene	0.958	0.940	1.9	89	0.00
84	TP	Bromobenzene	0.793	0.771	2.8	88	0.00
85	TP	n-Propylbenzene	3.656	3.496	4.4	85	0.00
86	TP	1,4-Dichlorobutane	0.920	0.974	-5.9	100	0.00
87	TP	1,1,2,2-Tetrachloroethane	0.736	0.732	0.5	92	0.00
88	TP	4-Ethyltoluene	2.893	3.056	-5.6	94	0.00
89	TP	2-Chlorotoluene	2.497	2.404	3.7	86	0.00
90	TP	1,3,5-Trimethylbenzene	2.587	2.438	5.8	84	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201014A02.d
Acq On : 14 Oct 2020 2:04 pm
Operator : VOA108:MKS
Sample : C8260STDL10PPB
Misc : WG1422060
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 14 14:25:44 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
91 TP	1,2,3-Trichloropropane	0.608	0.565	7.1	89	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.197	0.207	-5.1	95	0.00
93 TP	4-Chlorotoluene	2.246	2.132	5.1	84	0.00
94 TP	tert-Butylbenzene	2.310	2.414	-4.5	94	0.00
95 TP	Pentachloroethane	0.236	0.407	-72.5#	195	0.00
97 TP	1,2,4-Trimethylbenzene	2.549	2.480	2.7	86	0.00
98 TP	sec-Butylbenzene	3.007	3.103	-3.2	90	0.00
99 TP	p-Isopropyltoluene	2.656	2.575	3.0	84	0.00
100 TP	1,3-Dichlorobenzene	1.450	1.394	3.9	85	0.00
101 TP	1,4-Dichlorobenzene	1.500	1.410	6.0	84	0.00
102 TP	p-Diethylbenzene	1.542	1.507	2.3	87	0.00
103 TP	n-Butylbenzene	2.578	2.465	4.4	85	0.00
104 TP	1,2-Dichlorobenzene	1.404	1.355	3.5	86	0.00
105 TP	1,2,4,5-Tetramethylbenzene	2.519	2.490	1.2	90	0.00
106 TP	1,2-Dibromo-3-chloropropane	0.124	0.115	7.3	85	0.00
107 TP	1,3,5-Trichlorobenzene	1.051	1.143	-8.8	99	0.00
108 TP	Hexachlorobutadiene	0.465	0.421	9.5	81	0.00
109 TP	1,2,4-Trichlorobenzene	1.022	0.937	8.3	84	0.00
110 TP	Naphthalene	2.307	2.042	11.5	84	0.00
111 TP	1,2,3-Trichlorobenzene	0.954	0.829	13.1	81	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 5 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201013A\
Data File : V08201014A02.d
Acq On : 14 Oct 2020 2:04 pm
Operator : VOA108:MKS
Sample : C8260STDL10PPB
Misc : WG1422060
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 14 14:25:44 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201013A\V08201013A09.d
Sub List : 8260-CurvePenta-PCE-CS2 - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.384	96	209300	10.000 ug/L	0.00
Standard Area 1 = 229151			Recovery = 91.34%		
59) Chlorobenzene-d5	8.420	117	152726	10.000 ug/L	0.00
Standard Area 1 = 167273			Recovery = 91.30%		
79) 1,4-Dichlorobenzene-d4	9.914	152	79422	10.000 ug/L	0.00
Standard Area 1 = 90544			Recovery = 87.72%		
System Monitoring Compounds					
36) Dibromofluoromethane	4.393	113	52295	9.963 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.63%		
43) 1,2-Dichloroethane-d4	5.038	65	58616	9.583 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.83%		
60) Toluene-d8	7.093	98	198774	9.843 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.43%		
83) 4-Bromofluorobenzene	9.243	95	74679	9.810 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.10%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.933	85	43619M1	7.513 ug/L	
3) Chloromethane	1.048	50	43804M1	8.149 ug/L	
4) Vinyl chloride	1.101	62	50972M1	8.997 ug/L	
5) Bromomethane	1.300	94	43872M1	11.961 ug/L	
6) Chloroethane	1.373	64	43054M1	9.709 ug/L	
7) Trichlorofluoromethane	1.468	101	89071M1	9.992 ug/L	
8) Ethyl ether	1.698	74	26972M1	9.809 ug/L	
10) 1,1-Dichloroethene	1.824	96	40790M1	8.816 ug/L	
12) Freon-113	1.861	101	49133M1	11.498 ug/L	
13) Iodomethane	1.919	142	48737M1	7.795 ug/L	
14) Acrolein	2.092	56	4565M1	7.099 ug/L	
15) Methylene chloride	2.291	84	45119M1	8.165 ug/L	
17) Acetone	2.343	43	12419	10.791 ug/L	96
18) trans-1,2-Dichloroethene	2.432	96	43813	9.043 ug/L	70
19) Methyl acetate	2.474	43	25314	9.516 ug/L #	83
20) Methyl tert-butyl ether	2.558	73	136946M1	9.981 ug/L	
21) tert-Butyl alcohol	2.700	59	26448M1	51.825 ug/L	
22) Diisopropyl ether	2.972	45	156396M1	10.153 ug/L	
23) 1,1-Dichloroethane	3.046	63	75272	8.175 ug/L	96
24) Halothane	3.193	117	41382M1	10.876 ug/L	
25) Acrylonitrile	3.109	53	13415M1	8.843 ug/L	

Data Path : I:\VOLATILES\VOA108\2020\201013A\
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Sample : C8260STDL10PPB
Misc : WG1422060
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 14 14:25:44 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201013A\V08201013A09.d
Sub List : 8260-CurvePenta-PCE-CS2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) Ethyl tert-butyl ether	3.397	59	156735M1	10.102	ug/L		
27) Vinyl acetate	3.402	43	83998	10.534	ug/L	#	94
28) cis-1,2-Dichloroethene	3.712	96	51869M1	8.603	ug/L		
29) 2,2-Dichloropropane	3.843	77	75939M1	9.674	ug/L		
30) Bromochloromethane	3.979	128	24243	9.210	ug/L	#	53
31) Cyclohexane	3.953	56	86280M1	10.785	ug/L		
32) Chloroform	4.142	83	85578M1	8.956	ug/L		
33) Ethyl acetate	4.393	43	36158	8.654	ug/L	#	92
34) Carbon tetrachloride	4.267	117	59523	9.313	ug/L		99
35) Tetrahydrofuran	4.336	42	10803	7.809	ug/L	#	46
37) 1,1,1-Trichloroethane	4.367	97	76966M1	9.387	ug/L		
39) 2-Butanone	4.577	43	15766	8.189	ug/L	#	68
40) 1,1-Dichloropropene	4.545	75	64321M1	9.593	ug/L		
41) Benzene	4.855	78	182411	8.927	ug/L		89
42) tert-Amyl methyl ether	5.085	73	144690	9.713	ug/L		87
44) 1,2-Dichloroethane	5.117	62	62901	8.963	ug/L		97
47) Methyl cyclohexane	5.547	83	87507	10.602	ug/L	#	63
48) Trichloroethene	5.583	95	49099M5	8.857	ug/L		
50) Dibromomethane	6.034	93	30657	8.991	ug/L		98
51) 1,2-Dichloropropane	6.144	63	48078	9.069	ug/L		95
53) 2-Chloroethyl vinyl ether	6.905	63	33780	11.207	ug/L		91
54) Bromodichloromethane	6.260	83	67300	8.846	ug/L		99
57) 1,4-Dioxane	6.485	88	20609	448.721	ug/L	#	74
58) cis-1,3-Dichloropropene	6.920	75	79806	8.797	ug/L		93
61) Toluene	7.146	92	123384	9.331	ug/L		95
62) 4-Methyl-2-pentanone	7.560	58	18555	10.404	ug/L	#	90
65) trans-1,3-Dichloropropene	7.581	75	74242	8.944	ug/L		96
67) Ethyl methacrylate	7.775	69	66864	10.082	ug/L		97
68) 1,1,2-Trichloroethane	7.717	83	36957	9.181	ug/L		93
69) Chlorodibromomethane	7.854	129	53800	9.841	ug/L		99
70) 1,3-Dichloropropane	7.927	76	74006	9.145	ug/L		98
71) 1,2-Dibromoethane	8.011	107	43720	9.261	ug/L		99
72) 2-Hexanone	8.257	43	33614	10.549	ug/L		95
73) Chlorobenzene	8.430	112	135959	9.591	ug/L		92
74) Ethylbenzene	8.467	91	236433	9.482	ug/L		99
75) 1,1,1,2-Tetrachloroethane	8.488	131	52737	9.739	ug/L		97
76) p/m Xylene	8.577	106	181068	18.966	ug/L		97
77) o Xylene	8.866	106	182813	20.523	ug/L		91
78) Styrene	8.902	104	311782	20.683	ug/L		91
80) Bromoform	8.908	173	35527	9.094	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201013A\
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Operator : VOA108:MKS
Sample : C8260STDL10PPB
Misc : WG1422060
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 14 14:25:44 2020
Quant Method : I:\VOLATILES\VOA108\2020\201013A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201013A\V08201013A09.d
Sub List : 8260-CurvePenta-PCE-CS2 - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
82)	Isopropylbenzene	9.075	105	235365	9.563	ug/L		97
84)	Bromobenzene	9.296	156	61247	9.728	ug/L		98
85)	n-Propylbenzene	9.332	91	277625	9.561	ug/L		97
86)	1,4-Dichlorobutane	9.337	55	77364	10.585	ug/L		96
87)	1,1,2,2-Tetrachloroethane	9.390	83	58175	9.950	ug/L		97
88)	4-Ethyltoluene	9.406	105	242716	10.563	ug/L		98
89)	2-Chlorotoluene	9.416	91	190928	9.626	ug/L		96
90)	1,3,5-Trimethylbenzene	9.458	105	193665	9.427	ug/L		93
91)	1,2,3-Trichloropropane	9.458	75	44886	9.299	ug/L		99
92)	trans-1,4-Dichloro-2-b...	9.489	53	16422	10.490	ug/L	#	73
93)	4-Chlorotoluene	9.521	91	169355	9.495	ug/L		92
94)	tert-Butylbenzene	9.647	119	191763	10.453	ug/L		94
95)	Pentachloroethane	9.657	167	32345	17.230	ug/L		97
97)	1,2,4-Trimethylbenzene	9.689	105	196944	9.727	ug/L		94
98)	sec-Butylbenzene	9.746	105	246472	10.322	ug/L		97
99)	p-Isopropyltoluene	9.836	119	204528	9.698	ug/L		95
100)	1,3-Dichlorobenzene	9.867	146	110683	9.612	ug/L		97
101)	1,4-Dichlorobenzene	9.919	146	111991	9.399	ug/L		97
102)	p-Diethylbenzene	10.045	119	119679	9.773	ug/L		96
103)	n-Butylbenzene	10.077	91	195764	9.562	ug/L		99
104)	1,2-Dichlorobenzene	10.161	146	107586	9.646	ug/L		97
105)	1,2,4,5-Tetramethylben...	10.501	119	197732	9.882	ug/L		97
106)	1,2-Dibromo-3-chloropr...	10.617	155	9152	9.298	ug/L		95
107)	1,3,5-Trichlorobenzene	10.632	180	90812	10.877	ug/L		93
108)	Hexachlorobutadiene	10.979	225	33432	9.051	ug/L		95
109)	1,2,4-Trichlorobenzene	10.989	180	74441	9.169	ug/L		99
110)	Naphthalene	11.167	128	162207	8.851	ug/L		100
111)	1,2,3-Trichlorobenzene	11.272	180	65866	8.697	ug/L		99

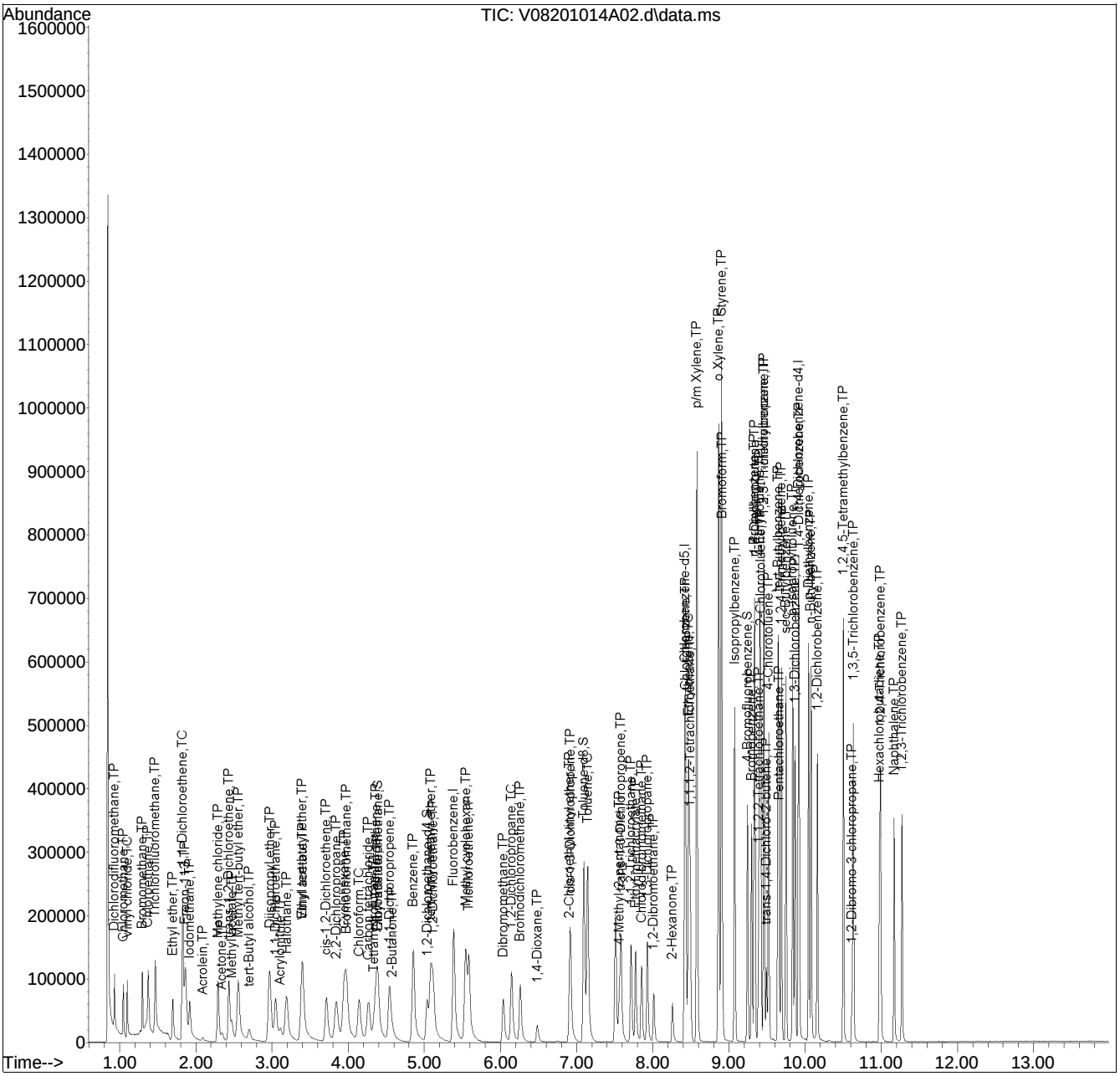
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201013A\
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Misc : WG1422060
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 14 14:25:44 2020
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Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
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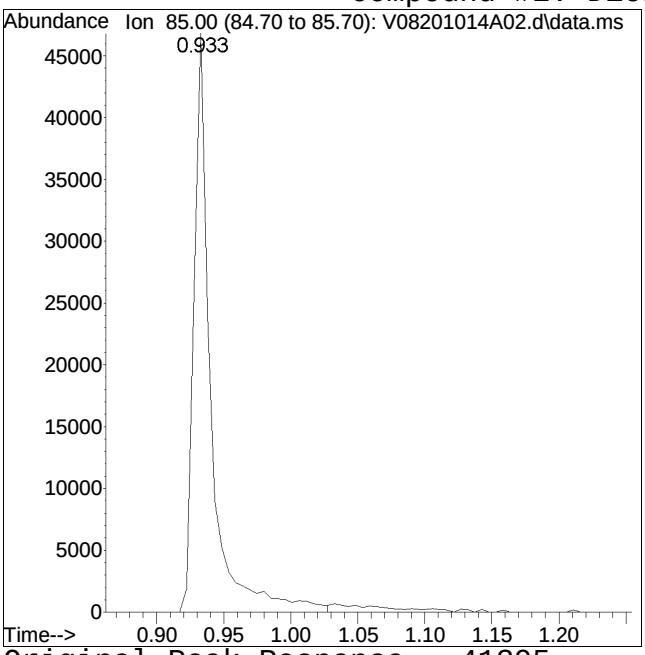
Sub List : 8260-CurvePenta-PCE-CS2 - All compounds listedA09.d•



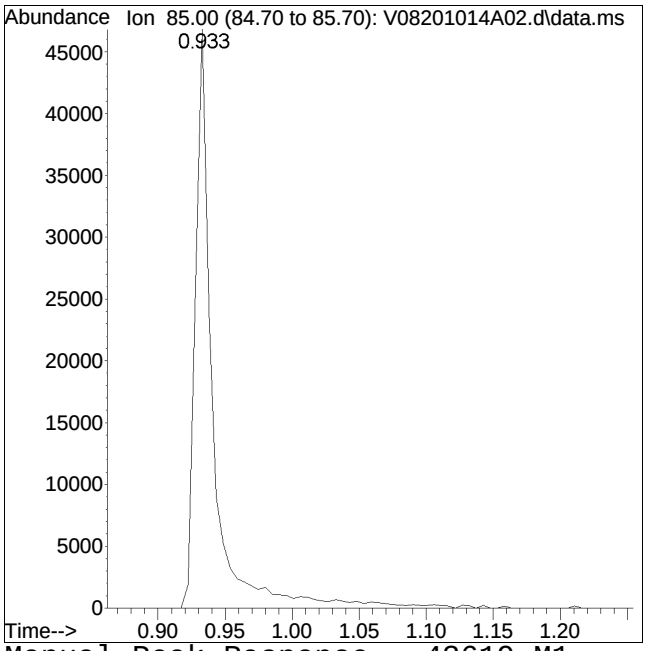
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201014A02.d Operator : VOA108:MKS
Date Inj'd : 10/14/2020 2:04 pm Instrument : VOA 108
Sample : C8260STDL10PPB Quant Date : 10/14/2020 2:23 pm

Compound #2: Dichlorodifluoromethane



Original Peak Response = 41395



Manual Peak Response = 43619 M1

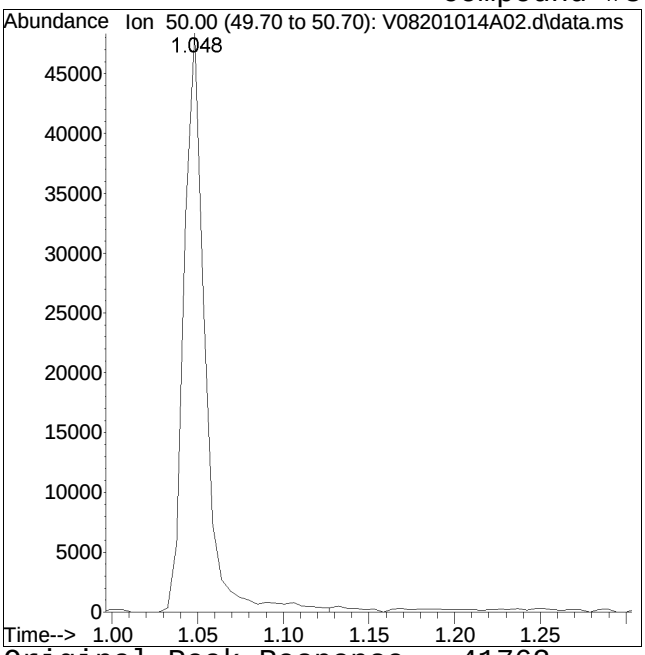
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

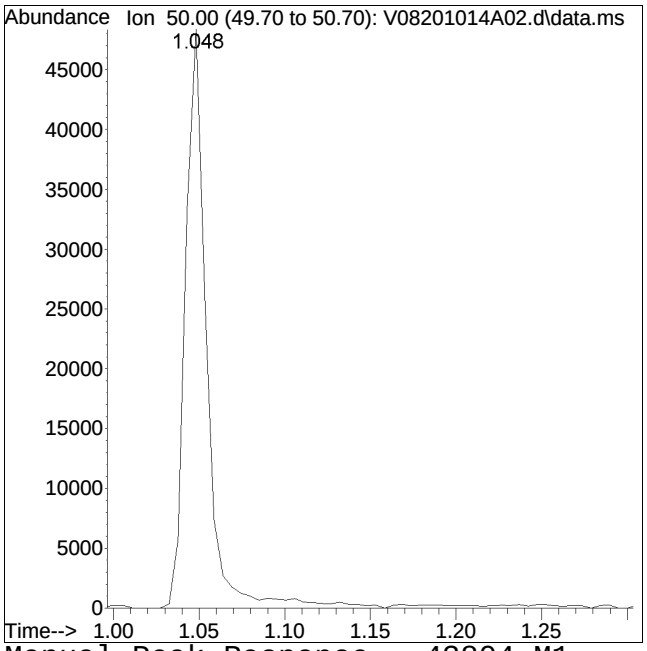
Data Path : I:\VOLATILES\VOA108\2020\2Q
Data File : V08201014A02.d
Date Inj'd : 10/14/2020 2:04 pm
Sample : C8260STDL10PPB

Method : V108_201013A_8260.m
Operator : VOA108:MKS
Instrument : VOA 108
Quant Date : 10/14/2020 2:23 pm

Compound #3: Chloromethane



Original Peak Response = 41762



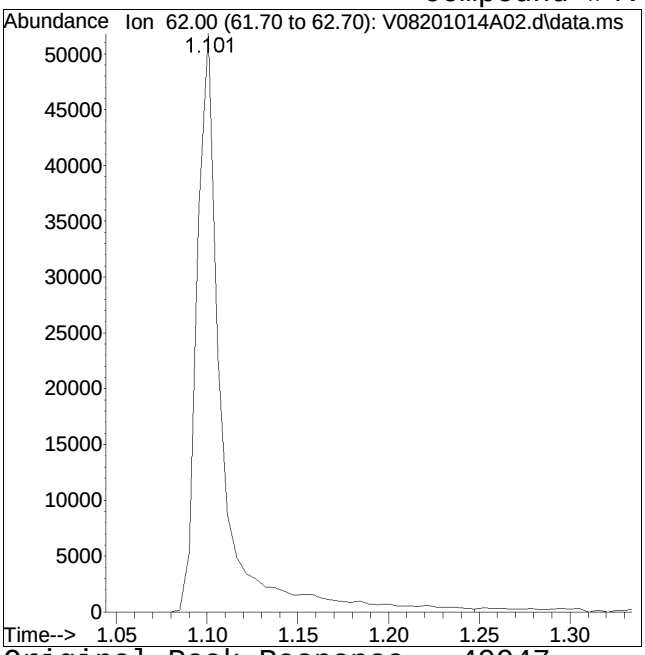
Manual Peak Response = 43804 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

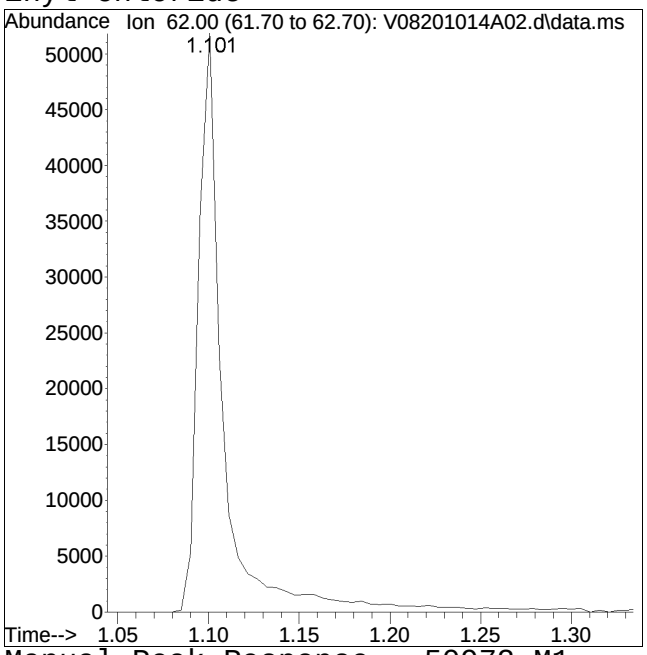
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201014A02.d Operator : VOA108:MKS
Date Inj'd : 10/14/2020 2:04 pm Instrument : VOA 108
Sample : C8260STDL10PPB Quant Date : 10/14/2020 2:23 pm

Compound #4: Vinyl chloride



Original Peak Response = 49947



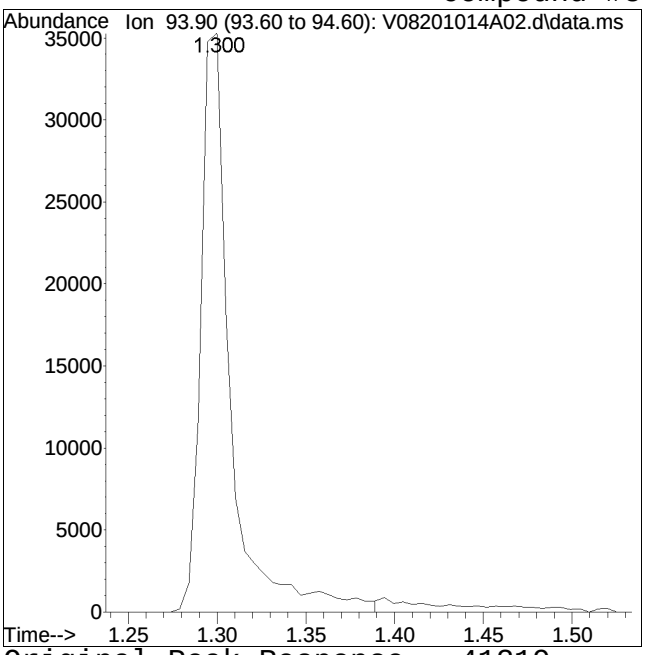
Manual Peak Response = 50972 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

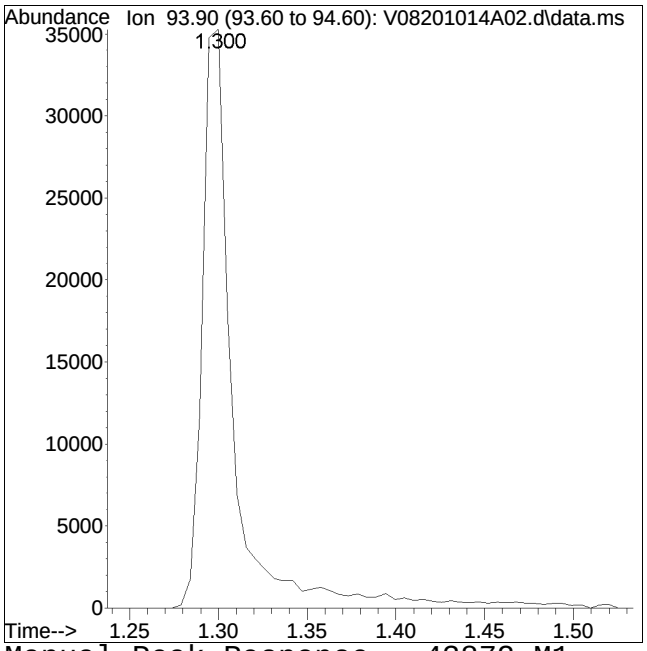
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201014A02.d Operator : VOA108:MKS
Date Inj'd : 10/14/2020 2:04 pm Instrument : VOA 108
Sample : C8260STDL10PPB Quant Date : 10/14/2020 2:23 pm

Compound #5: Bromomethane



Original Peak Response = 41219



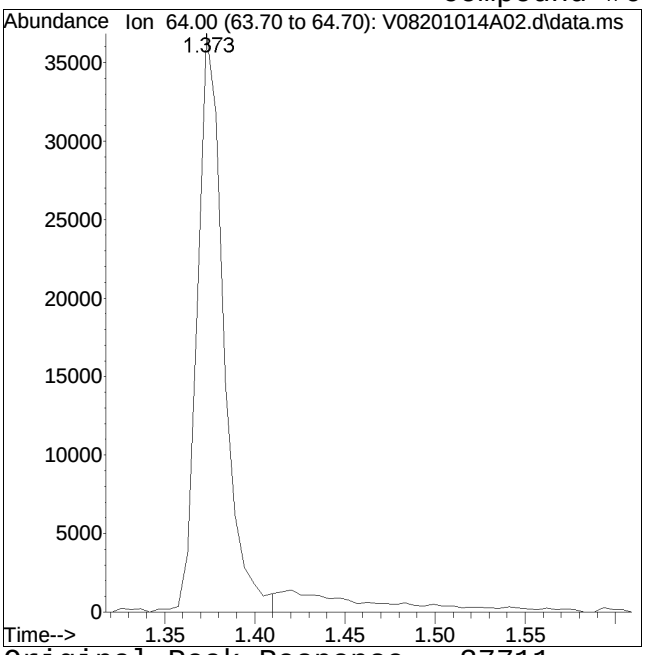
Manual Peak Response = 43872 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

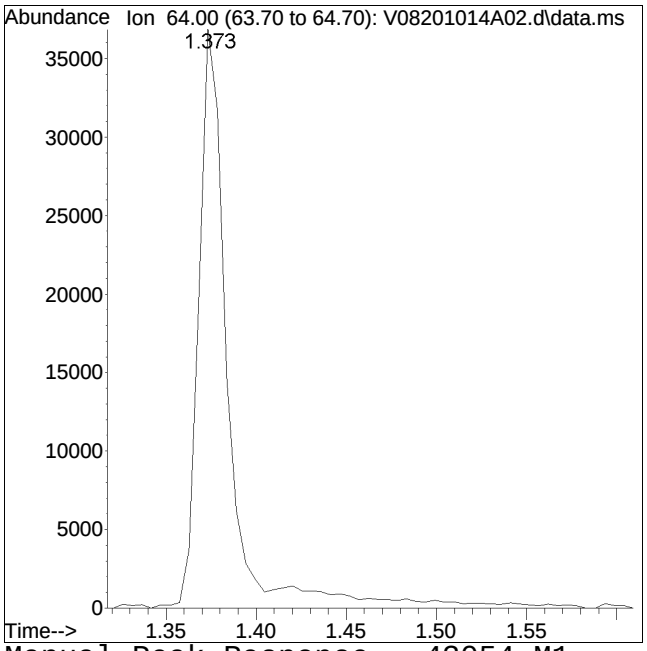
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201014A02.d Operator : VOA108:MKS
Date Inj'd : 10/14/2020 2:04 pm Instrument : VOA 108
Sample : C8260STDL10PPB Quant Date : 10/14/2020 2:23 pm

Compound #6: Chloroethane



Original Peak Response = 37711



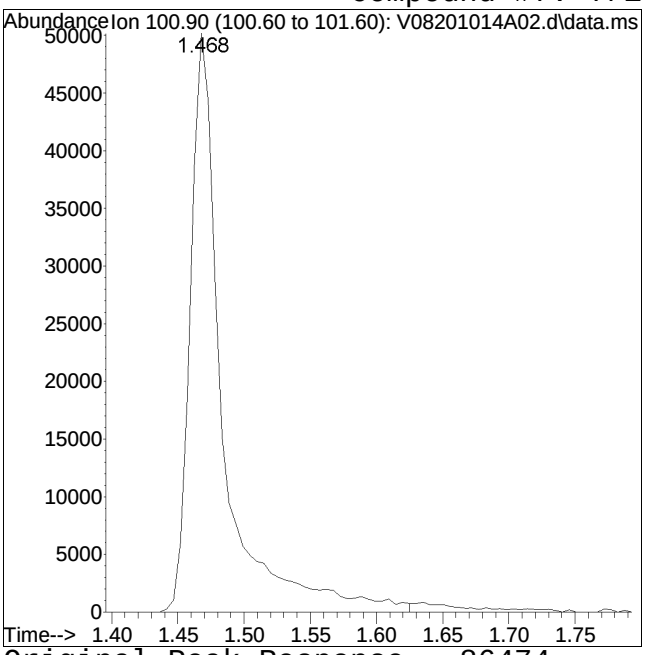
Manual Peak Response = 43054 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

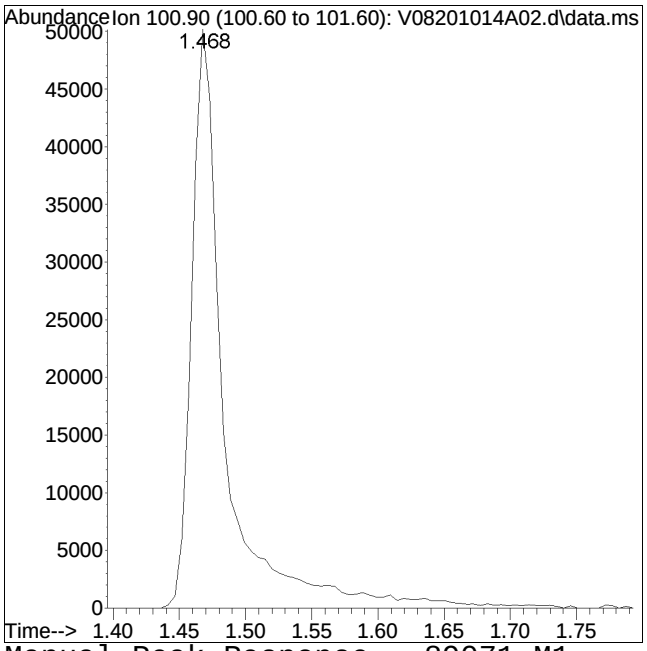
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201014A02.d Operator : VOA108:MKS
Date Inj'd : 10/14/2020 2:04 pm Instrument : VOA 108
Sample : C8260STDL10PPB Quant Date : 10/14/2020 2:23 pm

Compound #7: Trichlorofluoromethane



Original Peak Response = 86474



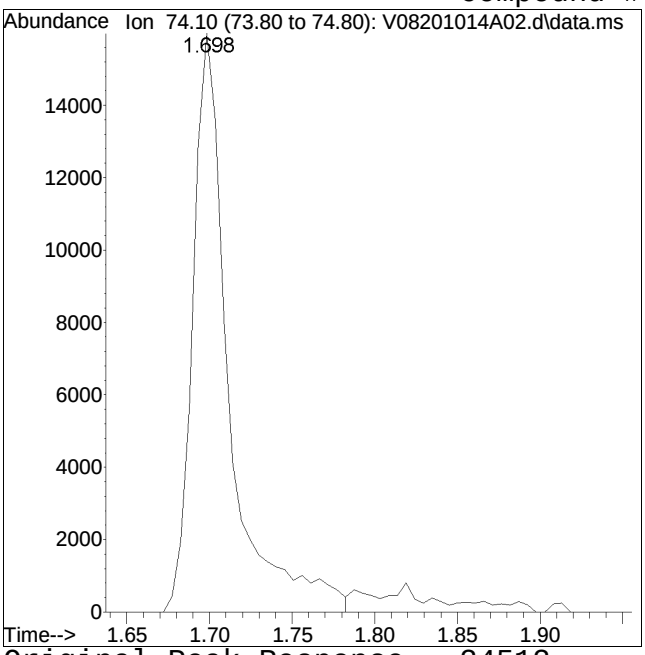
Manual Peak Response = 89071 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

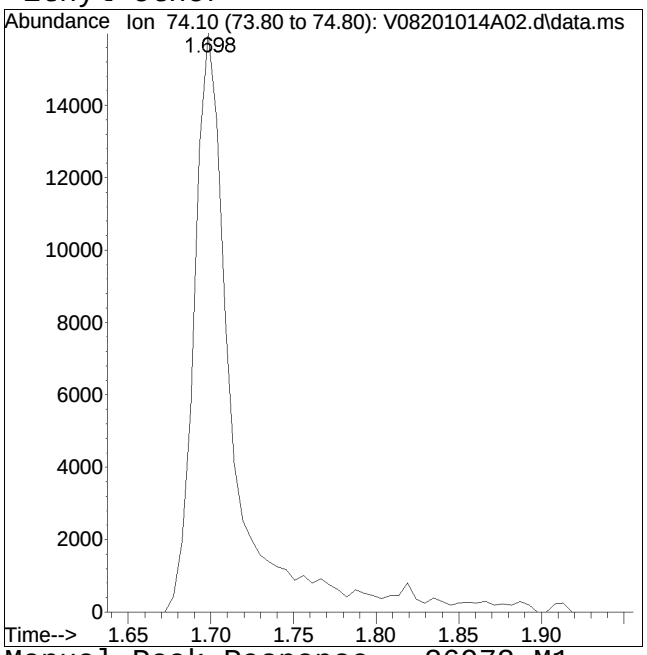
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201014A02.d Operator : VOA108:MKS
Date Inj'd : 10/14/2020 2:04 pm Instrument : VOA 108
Sample : C8260STDL10PPB Quant Date : 10/14/2020 2:23 pm

Compound #8: Ethyl ether



Original Peak Response = 24512



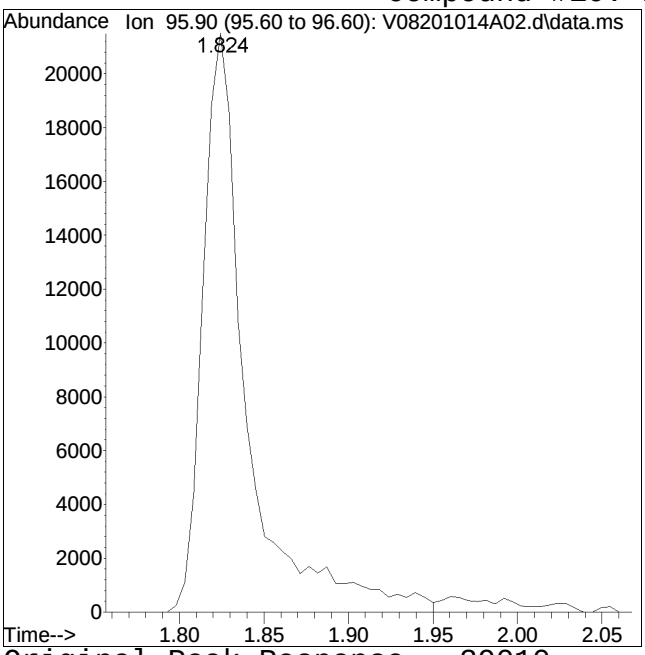
Manual Peak Response = 26972 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

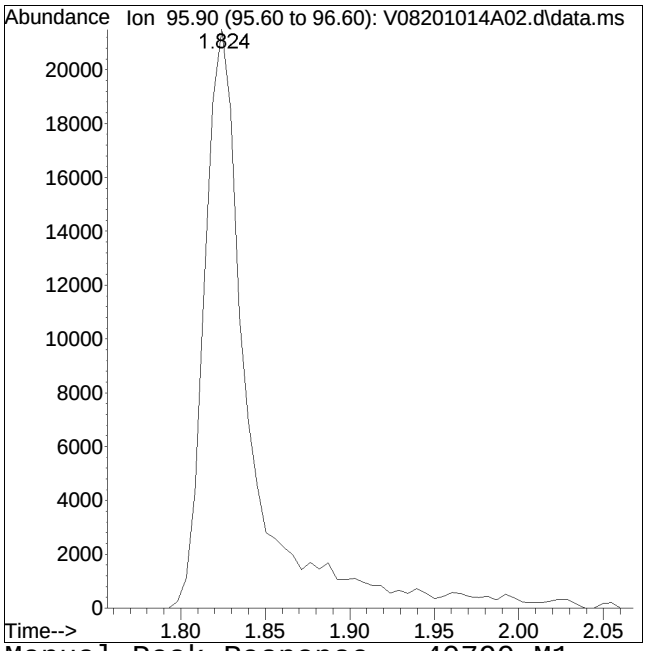
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201014A02.d Operator : VOA108:MKS
Date Inj'd : 10/14/2020 2:04 pm Instrument : VOA 108
Sample : C8260STDL10PPB Quant Date : 10/14/2020 2:23 pm

Compound #10: 1,1-Dichloroethene



Original Peak Response = 39010



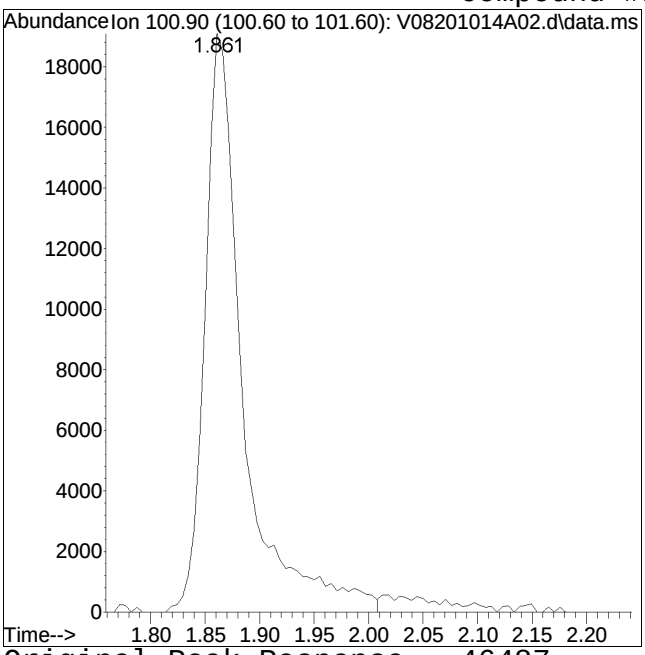
Manual Peak Response = 40790 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

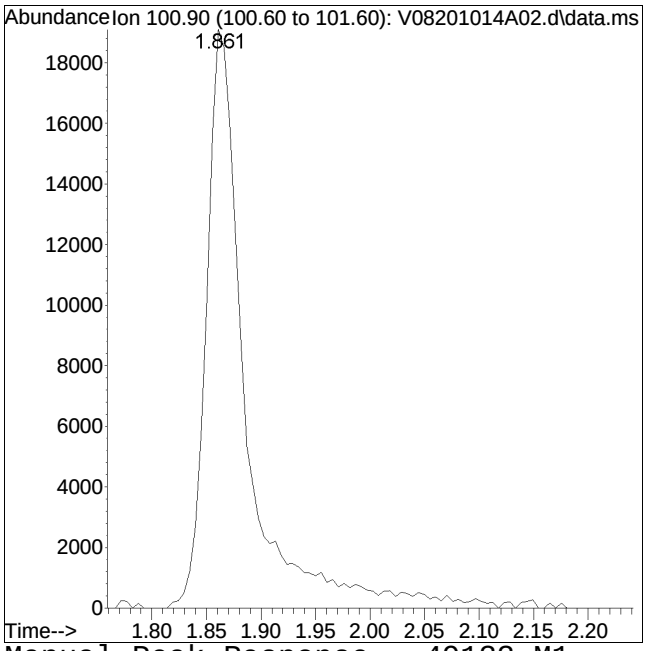
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201014A02.d Operator : VOA108:MKS
Date Inj'd : 10/14/2020 2:04 pm Instrument : VOA 108
Sample : C8260STDL10PPB Quant Date : 10/14/2020 2:23 pm

Compound #12: Freon-113



Original Peak Response = 46487



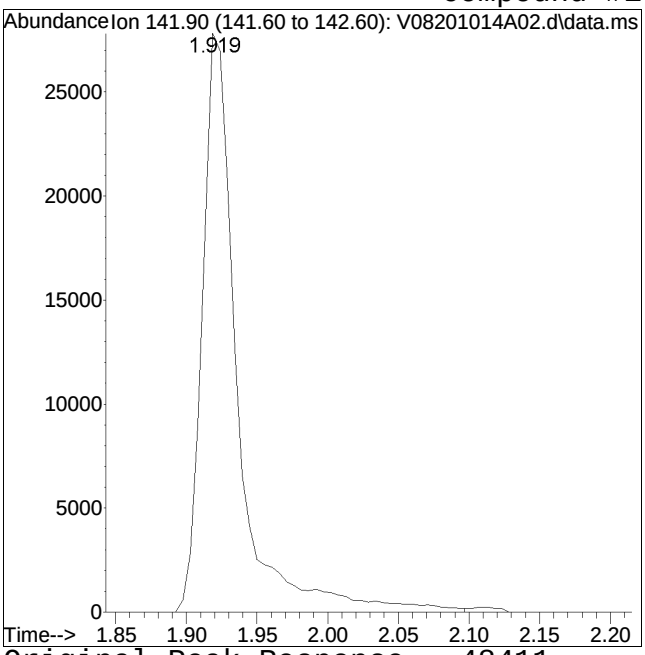
Manual Peak Response = 49133 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

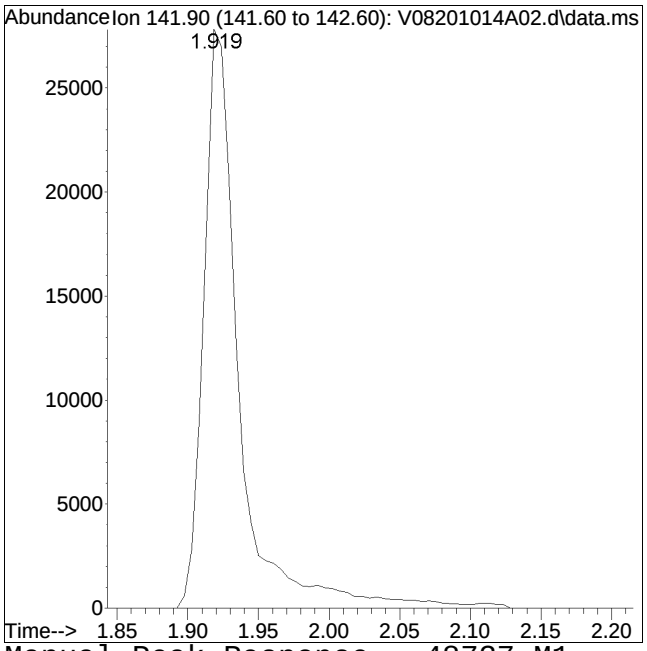
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201014A02.d Operator : VOA108:MKS
Date Inj'd : 10/14/2020 2:04 pm Instrument : VOA 108
Sample : C8260STDL10PPB Quant Date : 10/14/2020 2:23 pm

Compound #13: Iodomethane



Original Peak Response = 48411



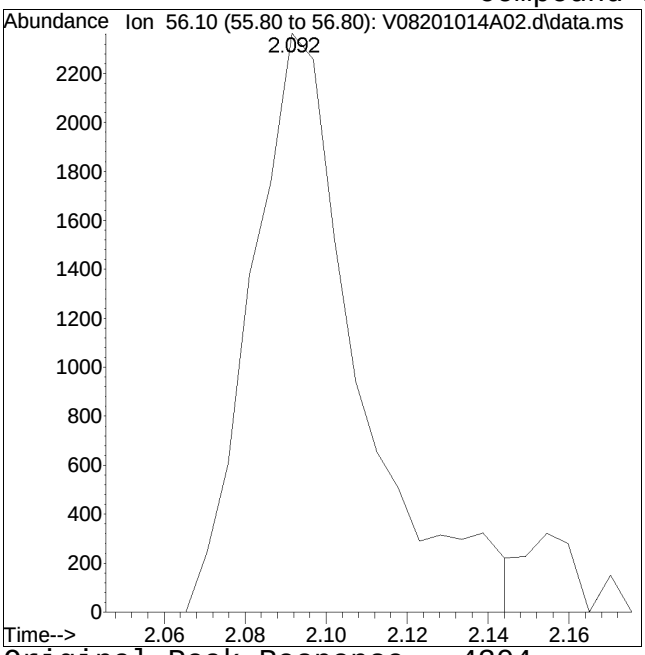
Manual Peak Response = 48737 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

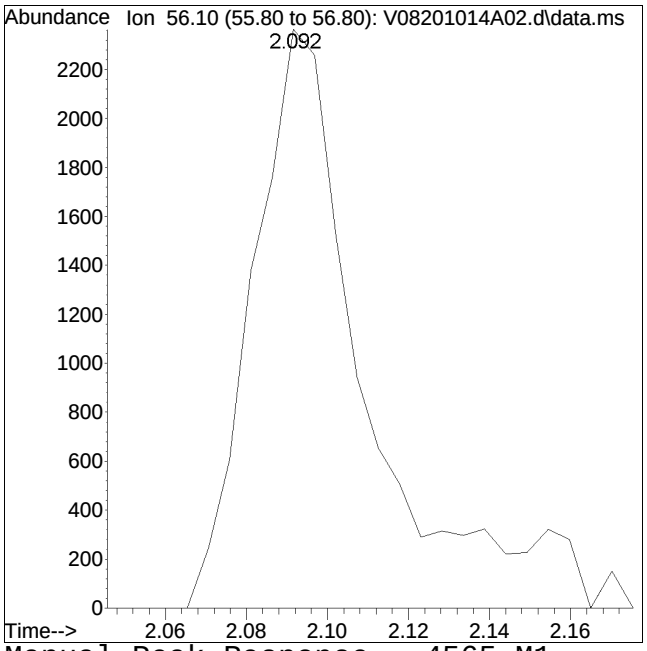
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201014A02.d Operator : VOA108:MKS
Date Inj'd : 10/14/2020 2:04 pm Instrument : VOA 108
Sample : C8260STDL10PPB Quant Date : 10/14/2020 2:23 pm

Compound #14: Acrolein



Original Peak Response = 4304



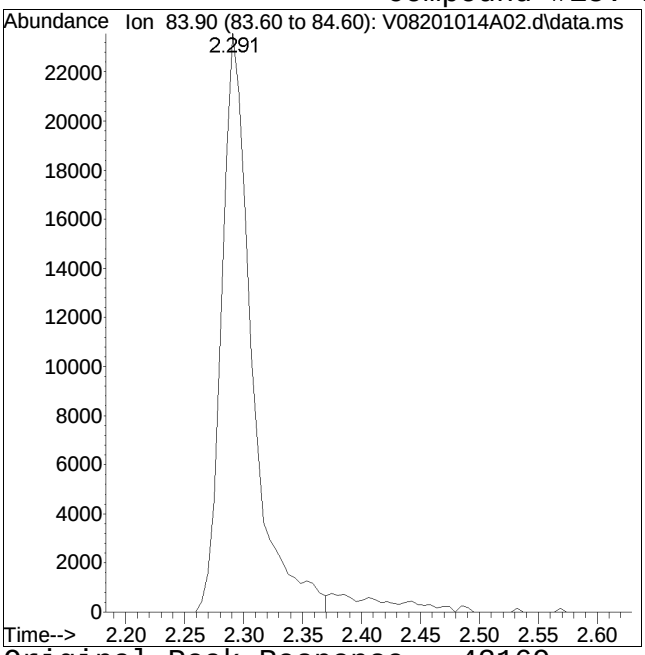
Manual Peak Response = 4565 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

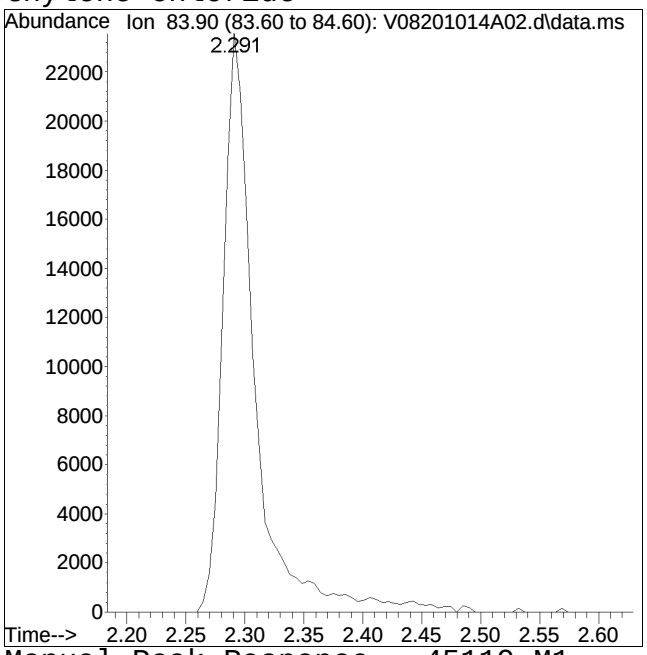
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201014A02.d Operator : VOA108:MKS
Date Inj'd : 10/14/2020 2:04 pm Instrument : VOA 108
Sample : C8260STDL10PPB Quant Date : 10/14/2020 2:23 pm

Compound #15: Methylene chloride



Original Peak Response = 42169



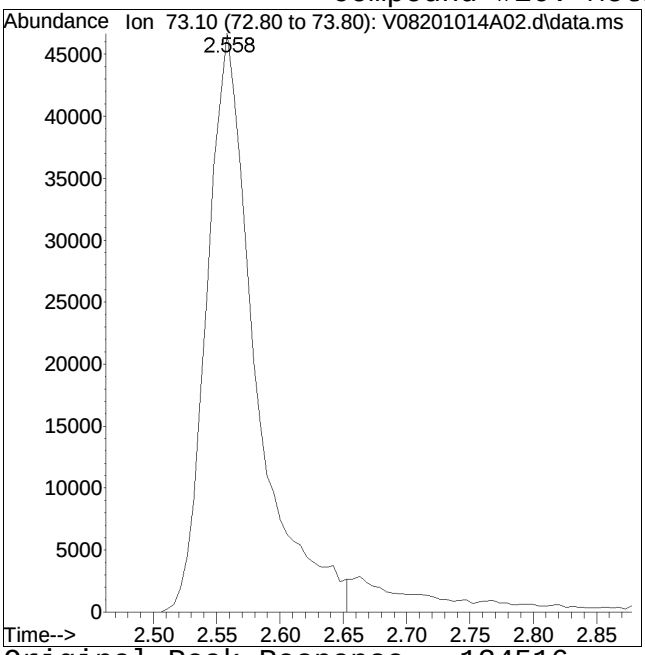
Manual Peak Response = 45119 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

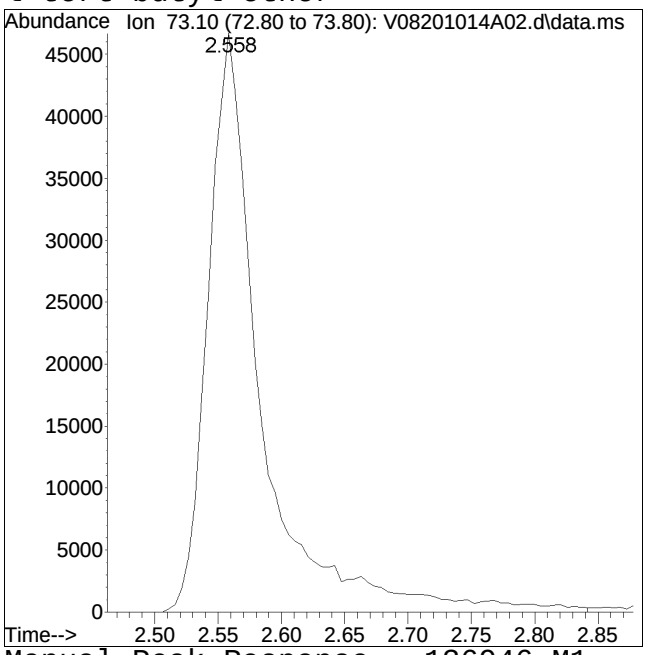
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201014A02.d Operator : VOA108:MKS
Date Inj'd : 10/14/2020 2:04 pm Instrument : VOA 108
Sample : C8260STDL10PPB Quant Date : 10/14/2020 2:23 pm

Compound #20: Methyl tert-butyl ether



Original Peak Response = 124516



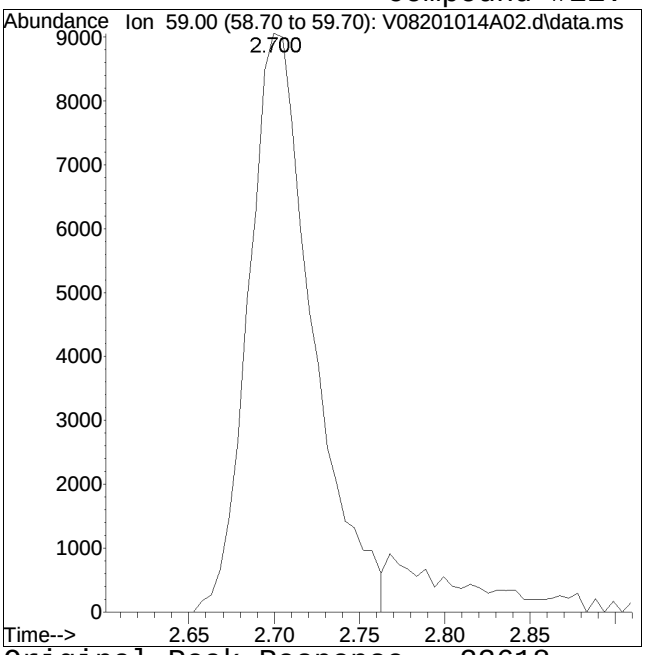
Manual Peak Response = 136946 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

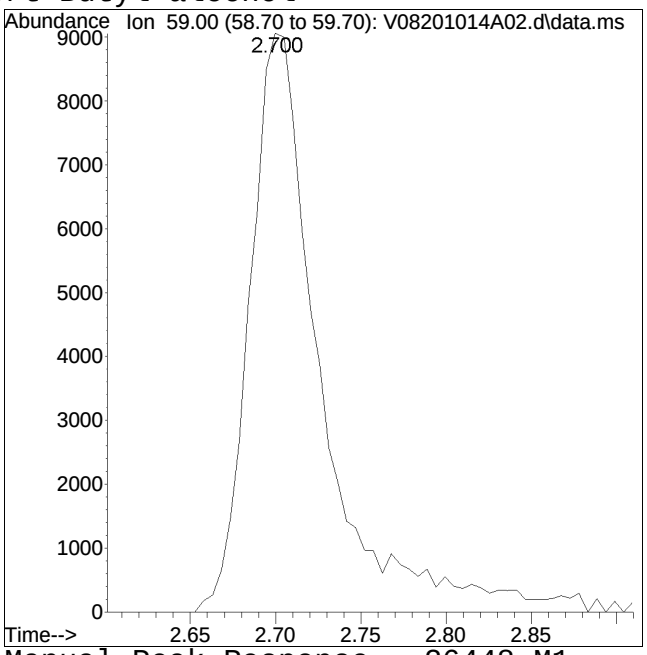
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201014A02.d Operator : VOA108:MKS
Date Inj'd : 10/14/2020 2:04 pm Instrument : VOA 108
Sample : C8260STDL10PPB Quant Date : 10/14/2020 2:23 pm

Compound #21: tert-Butyl alcohol



Original Peak Response = 23618



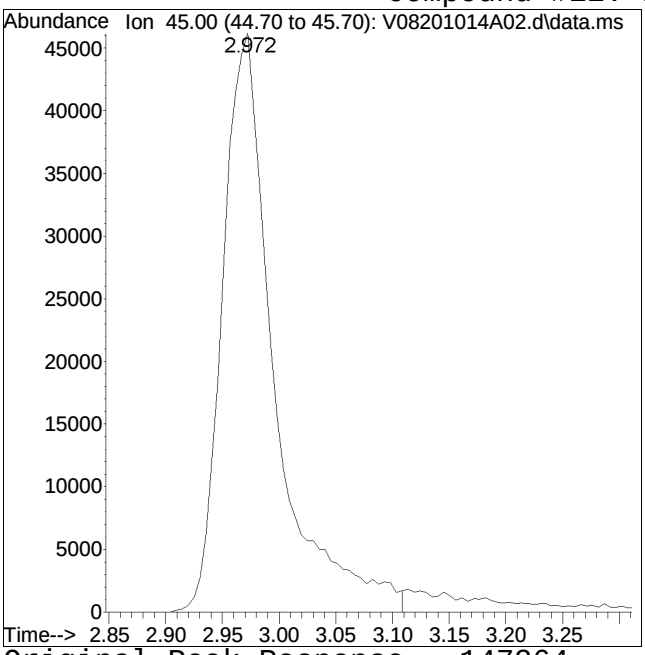
Manual Peak Response = 26448 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

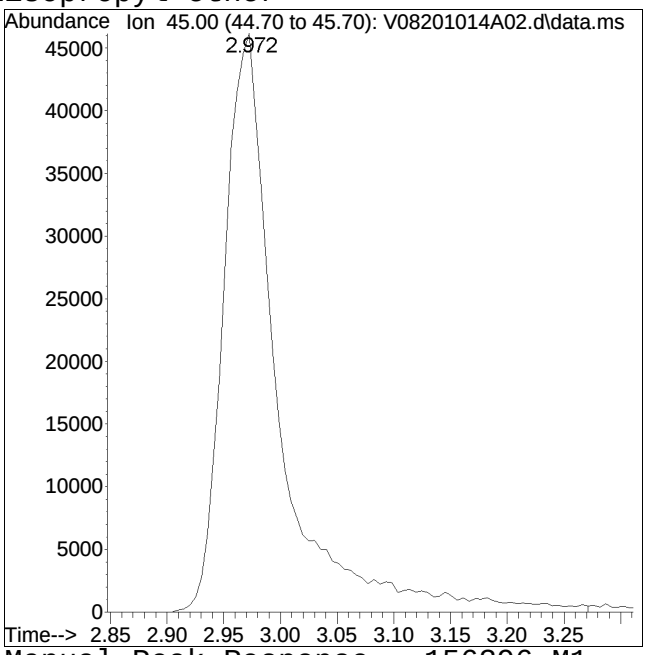
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201014A02.d Operator : VOA108:MKS
Date Inj'd : 10/14/2020 2:04 pm Instrument : VOA 108
Sample : C8260STDL10PPB Quant Date : 10/14/2020 2:23 pm

Compound #22: Diisopropyl ether



Original Peak Response = 147264



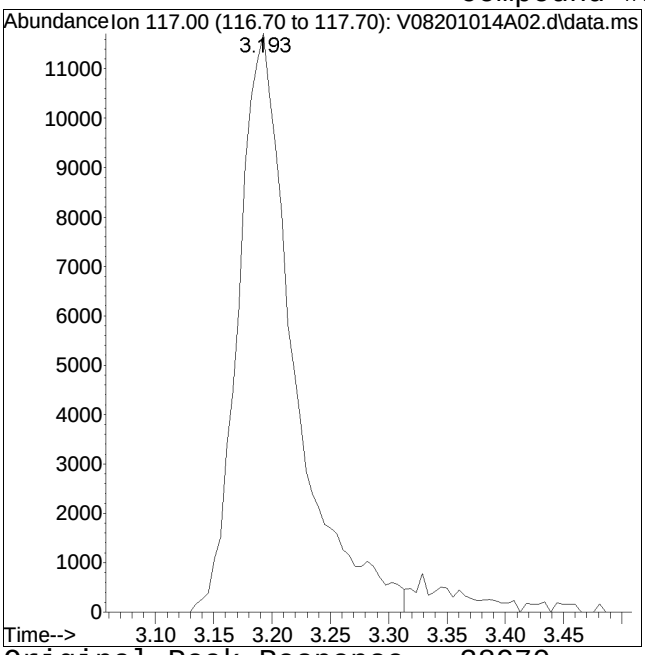
Manual Peak Response = 156396 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

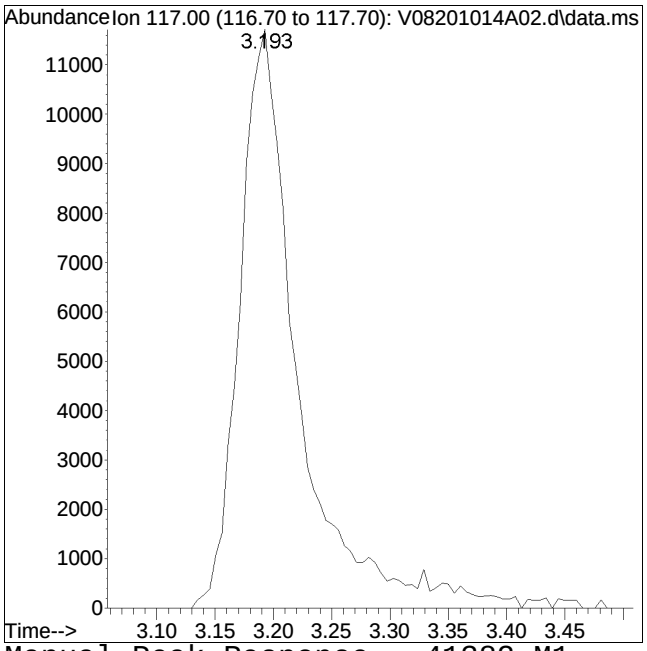
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201014A02.d Operator : VOA108:MKS
Date Inj'd : 10/14/2020 2:04 pm Instrument : VOA 108
Sample : C8260STDL10PPB Quant Date : 10/14/2020 2:23 pm

Compound #24: Halothane



Original Peak Response = 38970



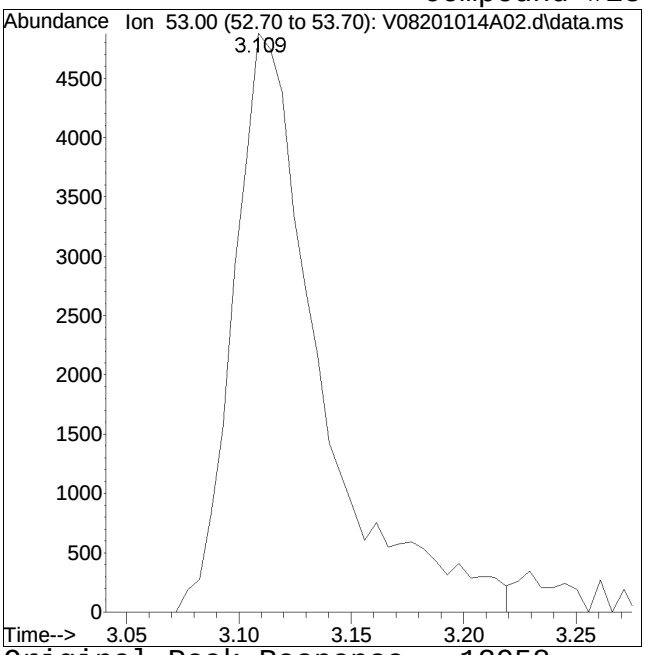
Manual Peak Response = 41382 M1

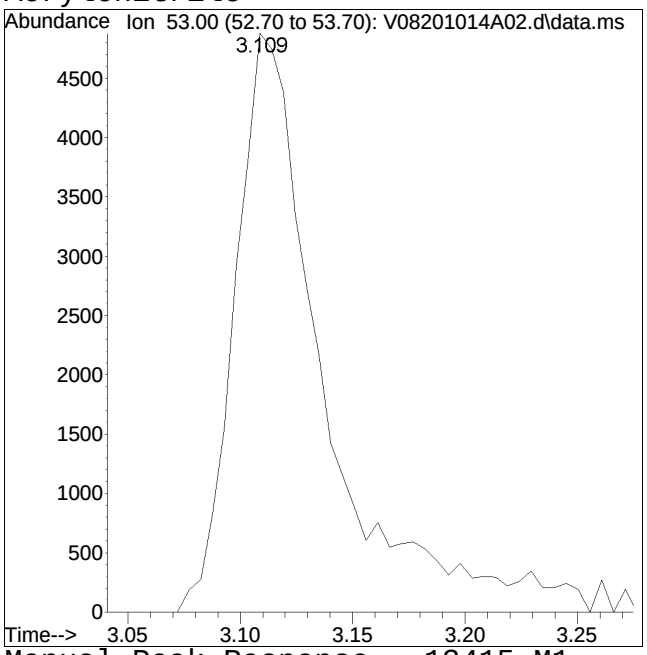
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201014A02.d Operator : VOA108:MKS
Date Inj'd : 10/14/2020 2:04 pm Instrument : VOA 108
Sample : C8260STDL10PPB Quant Date : 10/14/2020 2:23 pm

Compound #25: Acrylonitrile



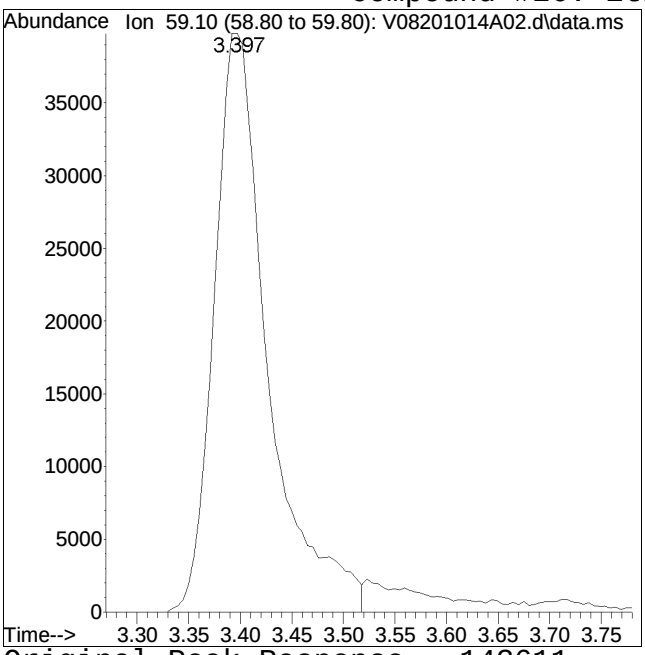


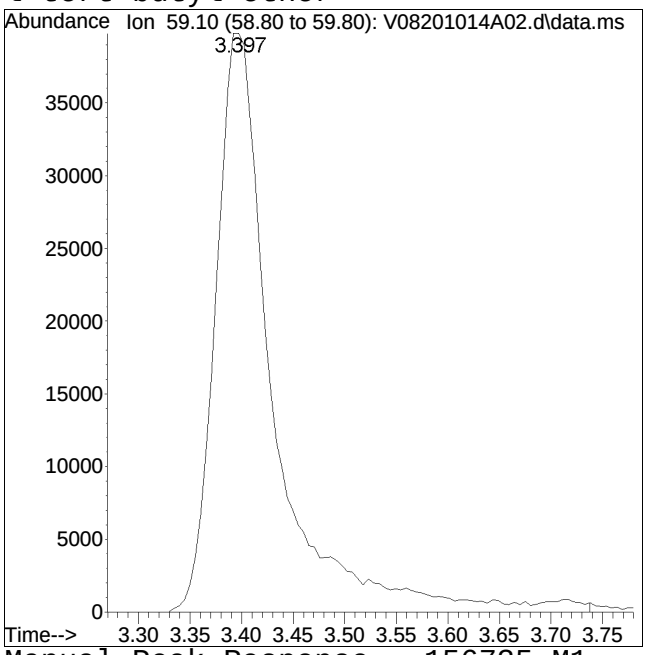
Original Peak Response = 12958 Manual Peak Response = 13415 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201014A02.d Operator : VOA108:MKS
Date Inj'd : 10/14/2020 2:04 pm Instrument : VOA 108
Sample : C8260STDL10PPB Quant Date : 10/14/2020 2:23 pm

Compound #26: Ethyl tert-butyl ether



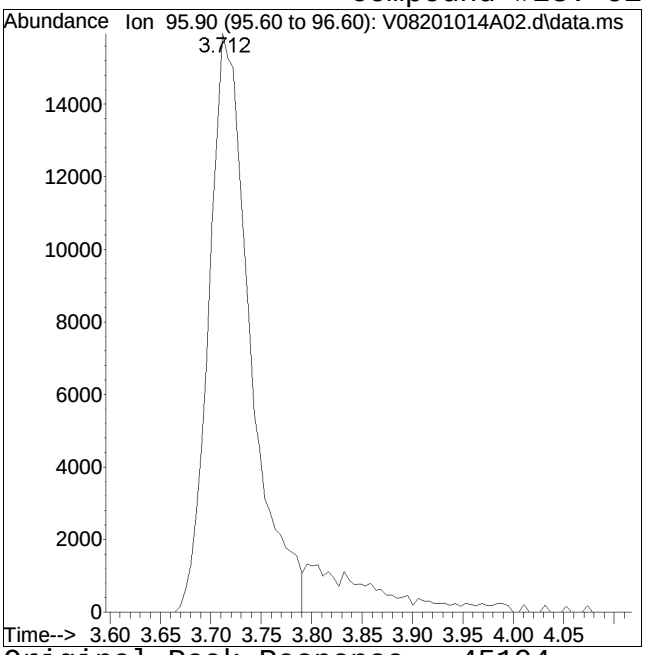


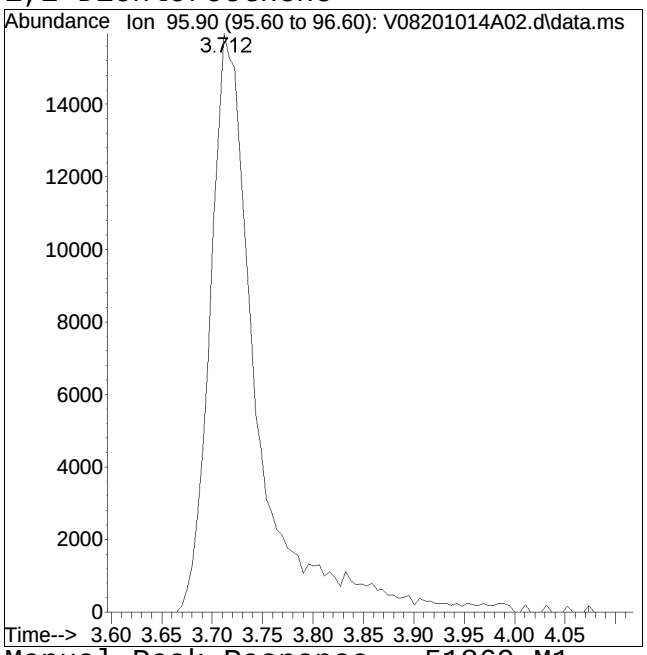
Original Peak Response = 143611 Manual Peak Response = 156735 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201014A02.d Operator : VOA108:MKS
Date Inj'd : 10/14/2020 2:04 pm Instrument : VOA 108
Sample : C8260STDL10PPB Quant Date : 10/14/2020 2:23 pm

Compound #28: cis-1,2-Dichloroethene



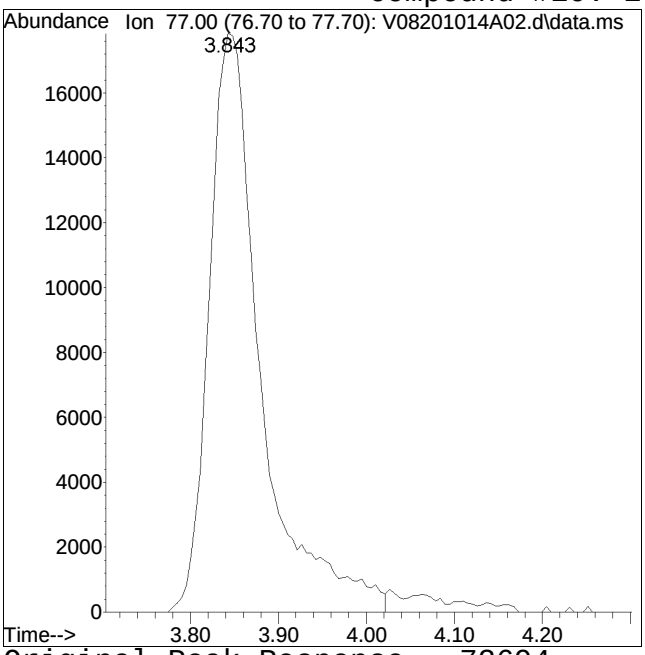


Original Peak Response = 45194 Manual Peak Response = 51869 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

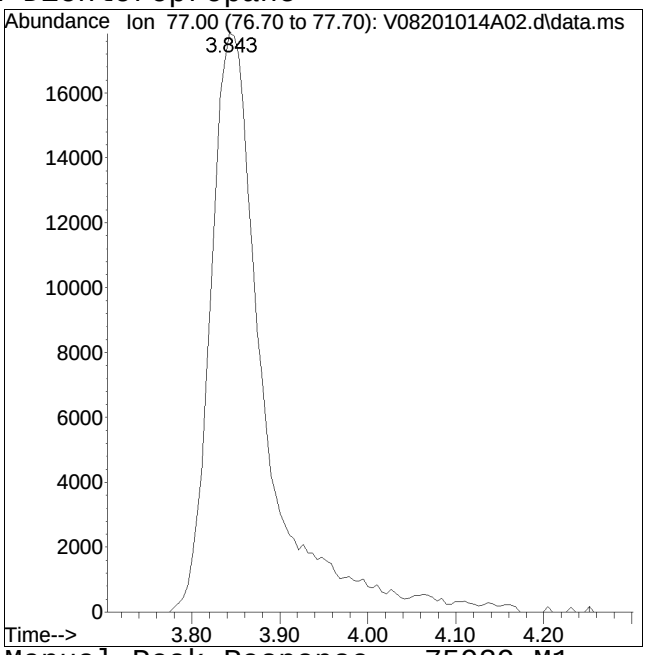
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201014A02.d Operator : VOA108:MKS
Date Inj'd : 10/14/2020 2:04 pm Instrument : VOA 108
Sample : C8260STDL10PPB Quant Date : 10/14/2020 2:23 pm

Compound #29: 2,2-Dichloropropane



Original Peak Response = 72694



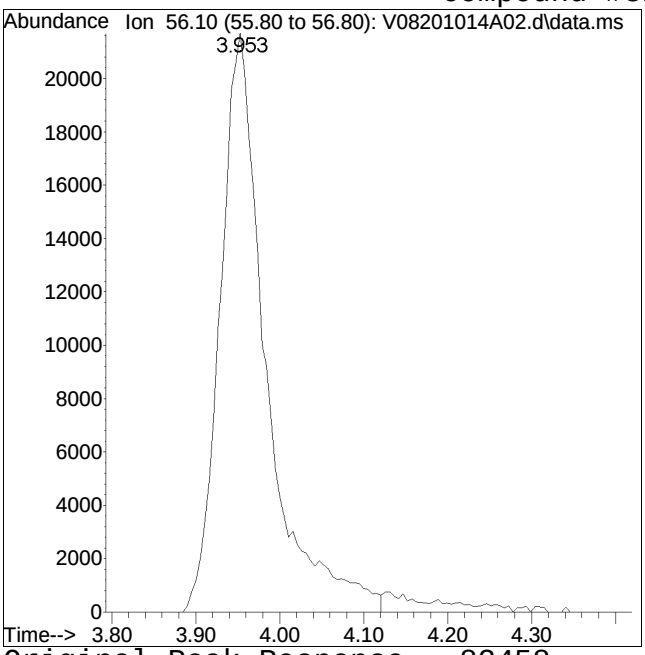
Manual Peak Response = 75939 M1

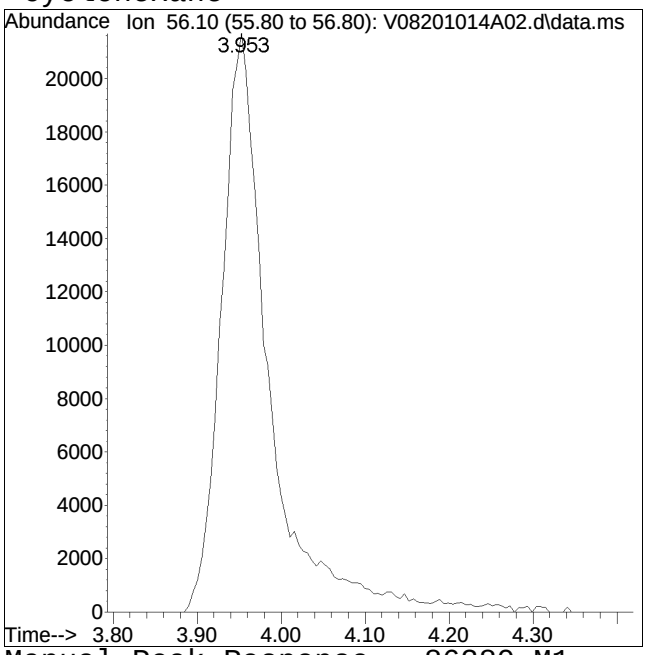
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201014A02.d Operator : VOA108:MKS
Date Inj'd : 10/14/2020 2:04 pm Instrument : VOA 108
Sample : C8260STDL10PPB Quant Date : 10/14/2020 2:23 pm

Compound #31: Cyclohexane



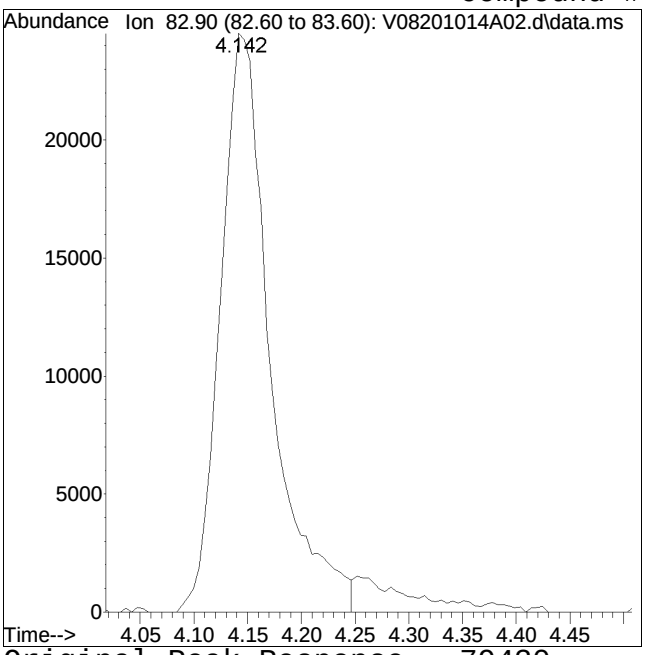


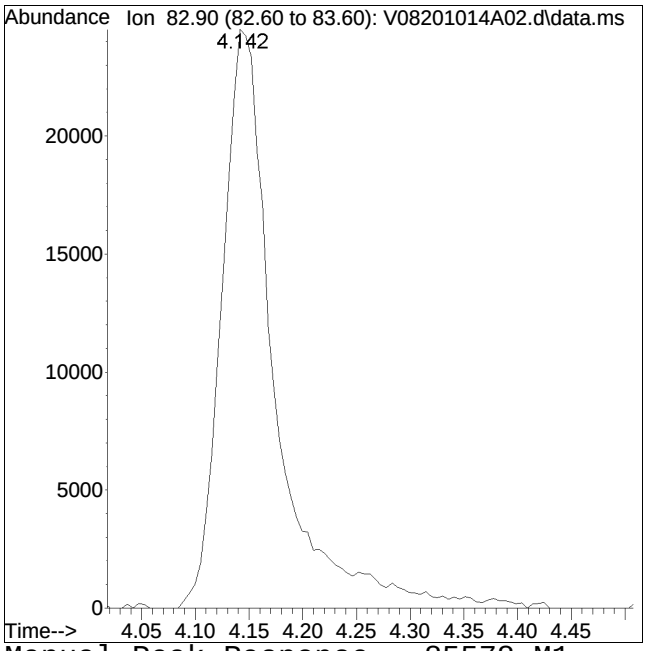
Original Peak Response = 82458 Manual Peak Response = 86280 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201014A02.d Operator : VOA108:MKS
Date Inj'd : 10/14/2020 2:04 pm Instrument : VOA 108
Sample : C8260STDL10PPB Quant Date : 10/14/2020 2:23 pm

Compound #32: Chloroform



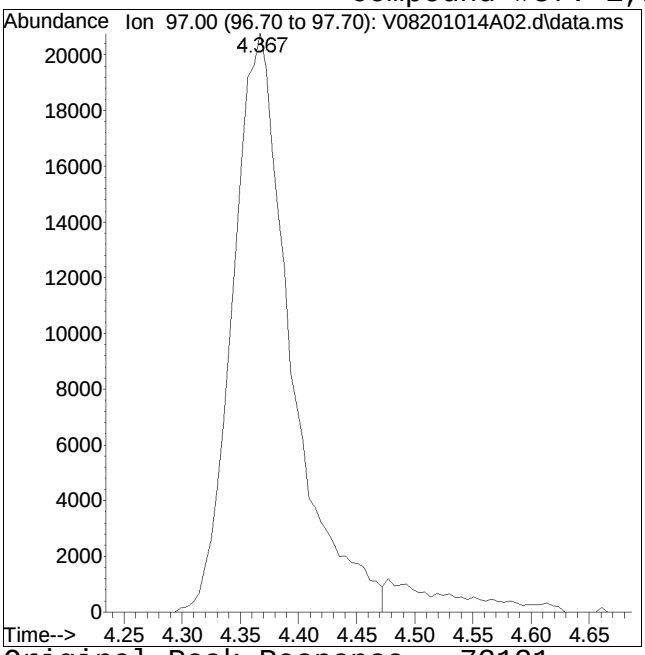


Original Peak Response = 79430 Manual Peak Response = 85578 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

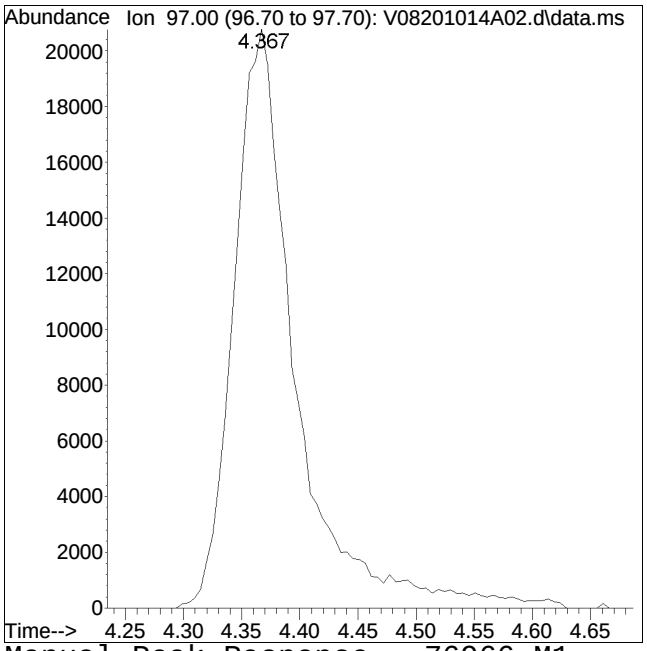
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201014A02.d Operator : VOA108:MKS
Date Inj'd : 10/14/2020 2:04 pm Instrument : VOA 108
Sample : C8260STDL10PPB Quant Date : 10/14/2020 2:23 pm

Compound #37: 1,1,1-Trichloroethane



Original Peak Response = 72121



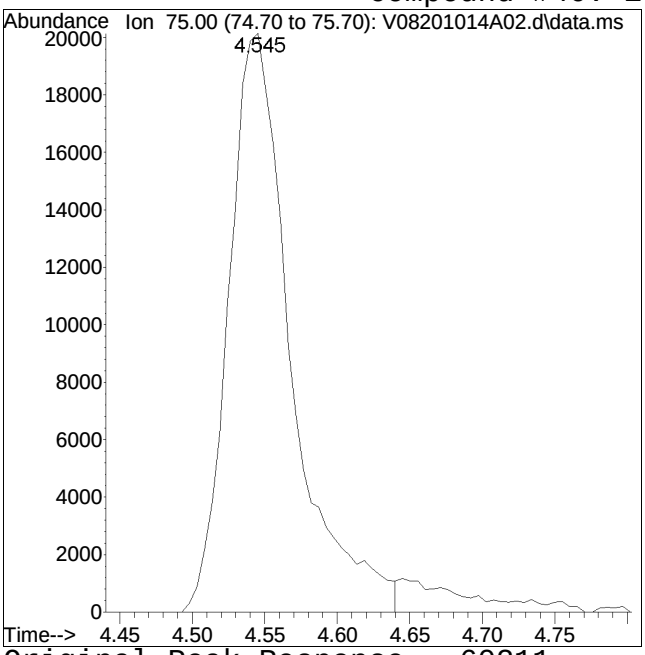
Manual Peak Response = 76966 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

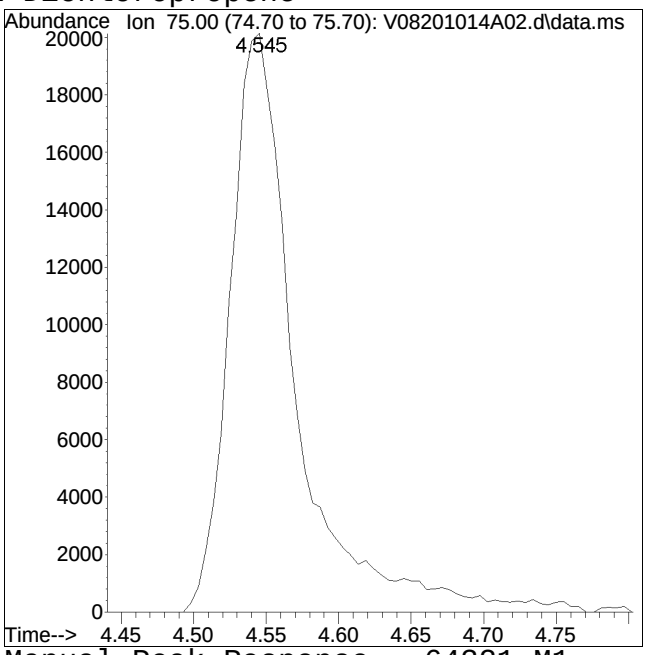
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201014A02.d Operator : VOA108:MKS
Date Inj'd : 10/14/2020 2:04 pm Instrument : VOA 108
Sample : C8260STDL10PPB Quant Date : 10/14/2020 2:23 pm

Compound #40: 1,1-Dichloropropene



Original Peak Response = 60211



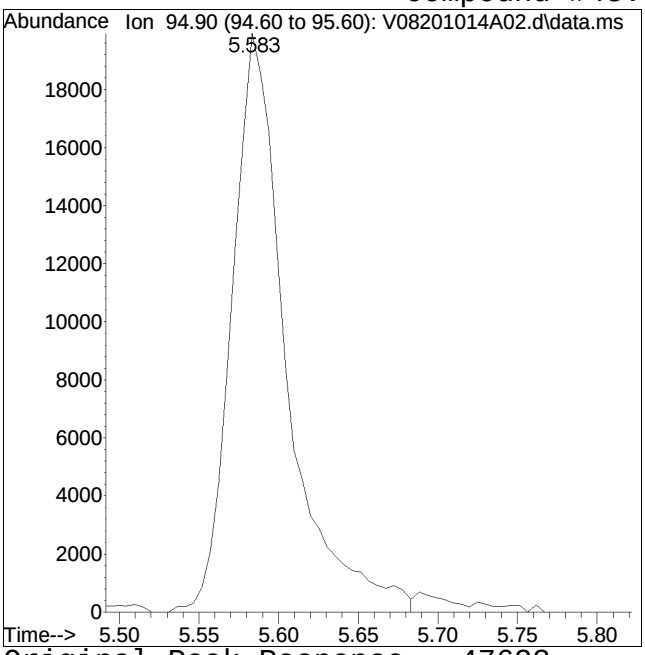
Manual Peak Response = 64321 M1

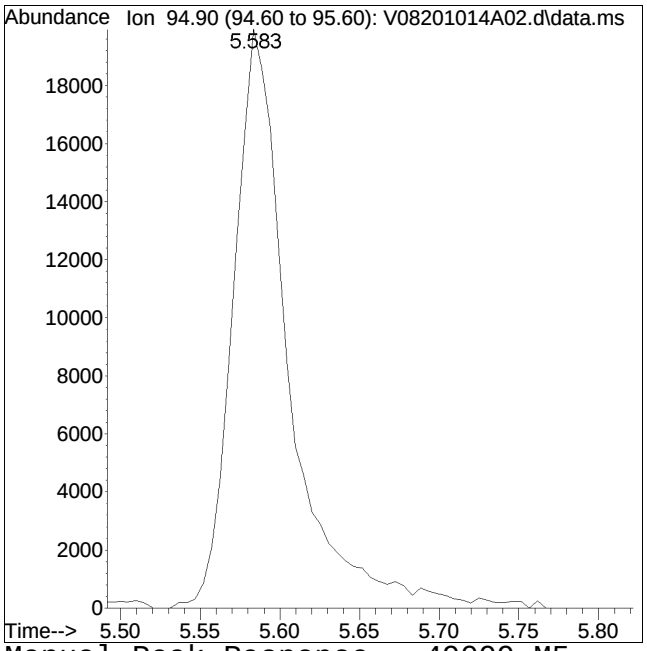
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201014A02.d Operator : VOA108:MKS
Date Inj'd : 10/14/2020 2:04 pm Instrument : VOA 108
Sample : C8260STDL10PPB Quant Date : 10/14/2020 2:23 pm

Compound #48: Trichloroethene





Original Peak Response = 47623 Manual Peak Response = 49099 M5
M5 = Manual integration over a retention time range required, i.e. for hydrocarbon range methods.

Continuing Calibration

Calibration Verification Summary
Form 7
Volatiles

Client	: Impact Environmental	**Lab Number**	: L2046790		
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209		
Instrument ID	: VOA105	**Calibration Date**	: 10/28/20 17:58		
Lab File ID	: V05201028N01	**Init. Calib. Date(s)**	: 09/30/20	09/30/20	
Sample No	: WG1428076-2	**Init. Calib. Times**	: 16:40	20:10	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	130	0
Dichlorodifluoromethane	0.153	0.22	-	-43.8*	20	214	0
Chloromethane	0.244	0.275	-	-12.7	20	165	-.01
Vinyl chloride	0.242	0.287	-	-18.6	20	169	0
Bromomethane	10	8.943	-	10.6	20	139	0
Chloroethane	10	12.332	-	-23.3*	20	173	0
Trichlorofluoromethane	0.401	0.436	-	-8.7	20	155	0
Ethyl ether	0.123	0.12	-	2.4	20	145	0
1,1-Dichloroethene	0.235	0.195	-	17	20	123	0
Carbon disulfide	0.47	0.438	-	6.8	20	142	0
Freon-113	0.226	0.208	-	8	20	135	0
Acrolein	0.024	0.022*	-	8.3	20	152	-.01
Methylene chloride	0.221	0.203	-	8.1	20	137	-.01
Acetone	0.05	0.039*	-	22*	20	122	-.01
trans-1,2-Dichloroethene	0.206	0.197	-	4.4	20	136	0
Methyl acetate	0.125	0.098*	-	21.6*	20	122	-.02
Methyl tert-butyl ether	0.489	0.403	-	17.6	20	123	0
tert-Butyl alcohol	0.015	0.013*	-	13.3	20	141	-.03
Diisopropyl ether	0.82	0.781	-	4.8	20	141	-.02
1,1-Dichloroethane	0.438	0.424	-	3.2	20	140	0
Halothane	0.168	0.158	-	6	20	137	0
Acrylonitrile	0.054	0.047*	-	13	20	136	-.02
Ethyl tert-butyl ether	0.703	0.599	-	14.8	20	129	-.01
Vinyl acetate	0.514	0.459	-	10.7	20	133	0
cis-1,2-Dichloroethene	0.253	0.239	-	5.5	20	133	-.02
2,2-Dichloropropane	0.328	0.326	-	0.6	20	147	-.01
Bromochloromethane	0.11	0.101	-	8.2	20	132	-.01
Cyclohexane	0.429	0.442	-	-3	20	150	-.01
Chloroform	0.414	0.366	-	11.6	20	130	0
Ethyl acetate	0.183	0.156	-	14.8	20	130	-.02
Carbon tetrachloride	0.317	0.281	-	11.4	20	130	0
Tetrahydrofuran	0.048	0.046*	-	4.2	20	141	-.02
Dibromofluoromethane	0.271	0.261	-	3.7	20	125	0
1,1,1-Trichloroethane	0.383	0.341	-	11	20	129	-.01
2-Butanone	0.078	0.06*	-	23.1*	20	116	-.02
1,1-Dichloropropene	0.314	0.297	-	5.4	20	136	0
Benzene	0.853	0.823	-	3.5	20	140	-.01
tert-Amyl methyl ether	0.538	0.438	-	18.6	20	123	-.02
1,2-Dichloroethane-d4	0.332	0.321	-	3.3	20	123	-.02
1,2-Dichloroethane	0.32	0.289	-	9.7	20	134	-.01
Methyl cyclohexane	0.403	0.38	-	5.7	20	143	-.01
Trichloroethene	0.25	0.225	-	10	20	135	-.02
Dibromomethane	0.129	0.115	-	10.9	20	132	-.02

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Impact Environmental	**Lab Number**	: L2046790		
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209		
Instrument ID	: VOA105	**Calibration Date**	: 10/28/20 17:58		
Lab File ID	: V05201028N01	**Init. Calib. Date(s)**	: 09/30/20	09/30/20	
Sample No	: WG1428076-2	**Init. Calib. Times**	: 16:40	20:10	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.236	0.234	-	0.8	20	147	0
Bromodichloromethane	0.304	0.264	-	13.2	20	131	0
1,4-Dioxane	0.00154	0.00123*	-	20.1*	20	103	-.02
cis-1,3-Dichloropropene	0.348	0.312	-	10.3	20	136	0
Chlorobenzene-d5	1	1	-	0	20	131	-.01
Toluene-d8	1.238	1.268	-	-2.4	20	132	-.01
Toluene	0.722	0.69	-	4.4	20	138	0
4-Methyl-2-pentanone	0.08	0.066*	-	17.5	20	132	-.01
Tetrachloroethene	0.343	0.339	-	1.2	20	144	-.01
trans-1,3-Dichloropropene	10	7.965	-	20.4*	20	131	-.02
Ethyl methacrylate	0.29	0.237	-	18.3	20	131	-.02
1,1,2-Trichloroethane	0.191	0.17	-	11	20	130	0
Chlorodibromomethane	10	8.159	-	18.4	20	131	-.02
1,3-Dichloropropane	0.26	0.345	-	-32.7*	20	193	0
1,2-Dibromoethane	0.23	0.2	-	13	20	128	-.01
2-Hexanone	0.147	0.121	-	17.7	20	126	-.01
Chlorobenzene	0.813	0.742	-	8.7	20	137	-.02
Ethylbenzene	1.439	1.326	-	7.9	20	138	-.02
1,1,1,2-Tetrachloroethane	0.296	0.264	-	10.8	20	134	0
p/m Xylene	0.564	0.518	-	8.2	20	139	-.02
o Xylene	0.511	0.472	-	7.6	20	140	0
Styrene	0.846	0.763	-	9.8	20	140	-.02
1,4-Dichlorobenzene-d4	1	1	-	0	20	126	-.02
Bromoform	10	8.495	-	15.1	20	131	0
Isopropylbenzene	2.644	2.622	-	0.8	20	140	0
4-Bromofluorobenzene	0.895	0.912	-	-1.9	20	124	-.02
Bromobenzene	0.644	0.625	-	3	20	139	0
n-Propylbenzene	3.139	3.007	-	4.2	20	135	-.02
1,4-Dichlorobutane	0.73	0.686	-	6	20	135	-.01
1,1,2,2-Tetrachloroethane	0.466	0.42	-	9.9	20	130	0
4-Ethyltoluene	2.445	2.395	-	2	20	136	-.02
2-Chlorotoluene	1.769	1.702	-	3.8	20	136	-.01
1,3,5-Trimethylbenzene	2.184	2.09	-	4.3	20	136	-.02
1,2,3-Trichloropropane	0.391	0.346	-	11.5	20	128	-.02
trans-1,4-Dichloro-2-buten	0.138	0.08	-	42*	20	92	0
4-Chlorotoluene	1.832	1.779	-	2.9	20	138	-.01
tert-Butylbenzene	1.935	1.786	-	7.7	20	130	-.01
1,2,4-Trimethylbenzene	2.086	2.001	-	4.1	20	135	-.01
sec-Butylbenzene	2.613	2.467	-	5.6	20	133	-.01
p-Isopropyltoluene	2.406	2.202	-	8.5	20	131	0
1,3-Dichlorobenzene	1.179	1.138	-	3.5	20	138	-.02
1,4-Dichlorobenzene	1.187	1.152	-	2.9	20	139	-.01
p-Diethylbenzene	1.327	1.181	-	11	20	126	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Impact Environmental	**Lab Number**	: L2046790		
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209		
Instrument ID	: VOA105	**Calibration Date**	: 10/28/20 17:58		
Lab File ID	: V05201028N01	**Init. Calib. Date(s)**	: 09/30/20	09/30/20	
Sample No	: WG1428076-2	**Init. Calib. Times**	: 16:40	20:10	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	2.073	1.87	-	9.8	20	130	0
1,2-Dichlorobenzene	1.047	1.014	-	3.2	20	139	0
1,2,4,5-Tetramethylbenzene	1.881	1.678	-	10.8	20	129	0
1,2-Dibromo-3-chloropropan	10	8.267	-	17.3	20	124	-.02
1,3,5-Trichlorobenzene	0.752	0.714	-	5.1	20	135	0
Hexachlorobutadiene	0.297	0.287	-	3.4	20	141	0
1,2,4-Trichlorobenzene	0.645	0.578	-	10.4	20	130	-.01
Naphthalene	1.238	0.953	-	23*	20	113	0
1,2,3-Trichlorobenzene	0.524	0.426	-	18.7	20	120	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Impact Environmental	**Lab Number**	: L2046790		
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209		
Instrument ID	: VOA108	**Calibration Date**	: 10/29/20 08:10		
Lab File ID	: V08201029A01	**Init. Calib. Date(s)**	: 10/13/20	10/13/20	
Sample No	: WG1428085-2	**Init. Calib. Times**	: 15:01	18:19	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	66	0
Dichlorodifluoromethane	0.277	0.231	-	16.6	20	53	0
Chloromethane	0.257	0.197	-	23.3*	20	50	0
Vinyl chloride	0.271	0.25	-	7.7	20	55	0
Bromomethane	0.175	0.167	-	4.6	20	71	0
Chloroethane	0.212	0.204	-	3.8	20	59	0
Trichlorofluoromethane	0.426	0.465	-	-9.2	20	68	0
Ethyl ether	0.131	0.11	-	16	20	54	0
1,1-Dichloroethene	0.221	0.207	-	6.3	20	62	0
Carbon disulfide	0.54	0.491	-	9.1	20	59	0
Freon-113	0.204	0.217	-	-6.4	20	65	0
Methylene chloride	0.264	0.248	-	6.1	20	61	0
Acetone	0.055	0.046*	-	16.4	20	54	0
trans-1,2-Dichloroethene	0.231	0.216	-	6.5	20	59	0
Methyl acetate	0.127	0.102	-	19.7	20	57	0
Methyl tert-butyl ether	0.656	0.564	-	14	20	55	0
tert-Butyl alcohol	0.024	0.015*	-	37.5*	20	40	-.02
Diisopropyl ether	0.736	0.698	-	5.2	20	62	-.01
1,1-Dichloroethane	0.44	0.442	-	-0.5	20	64	0
Halothane	0.182	0.164	-	9.9	20	56	0
Acrylonitrile	0.072	0.048*	-	33.3*	20	44	0
Ethyl tert-butyl ether	0.741	0.623	-	15.9	20	55	-.01
Vinyl acetate	10	10.076	-	-0.8	20	79	-.01
cis-1,2-Dichloroethene	0.288	0.267	-	7.3	20	58	-.01
2,2-Dichloropropane	0.375	0.334	-	10.9	20	57	-.02
Bromochloromethane	0.126	0.113	-	10.3	20	55	-.01
Cyclohexane	0.382	0.345	-	9.7	20	58	0
Chloroform	0.457	0.419	-	8.3	20	59	0
Ethyl acetate	0.2	0.15	-	25*	20	46	-.01
Carbon tetrachloride	0.305	0.278	-	8.9	20	55	-.02
Tetrahydrofuran	10	7.445	-	25.5*	20	48	-.01
Dibromofluoromethane	0.251	0.239	-	4.8	20	63	0
1,1,1-Trichloroethane	0.392	0.368	-	6.1	20	59	-.01
2-Butanone	0.092	0.06*	-	34.8*	20	43	-.02
1,1-Dichloropropene	0.32	0.304	-	5	20	61	0
Benzene	0.976	0.895	-	8.3	20	59	0
tert-Amyl methyl ether	0.712	0.562	-	21.1*	20	51	-.01
1,2-Dichloroethane-d4	0.292	0.264	-	9.6	20	63	-.01
1,2-Dichloroethane	0.335	0.31	-	7.5	20	60	0
Methyl cyclohexane	0.394	0.398	-	-1	20	64	0
Trichloroethene	0.265	0.252	-	4.9	20	62	0
Dibromomethane	0.163	0.147	-	9.8	20	58	0
1,2-Dichloropropane	0.253	0.243	-	4	20	62	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Impact Environmental	**Lab Number**	: L2046790		
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209		
Instrument ID	: VOA108	**Calibration Date**	: 10/29/20 08:10		
Lab File ID	: V08201029A01	**Init. Calib. Date(s)**	: 10/13/20	10/13/20	
Sample No	: WG1428085-2	**Init. Calib. Times**	: 15:01	18:19	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.363	0.323	-	11	20	58	0
1,4-Dioxane	0.00219	0.00144*	-	34.2*	20	43	-.01
cis-1,3-Dichloropropene	0.433	0.379	-	12.5	20	58	0
Chlorobenzene-d5	1	1	-	0	20	61	0
Toluene-d8	1.322	1.392	-	-5.3	20	64	0
Toluene	0.866	0.919	-	-6.1	20	63	0
4-Methyl-2-pentanone	0.117	0.088*	-	24.8*	20	44	0
Tetrachloroethene	0.548	0.375	-	31.6*	20	39	0
trans-1,3-Dichloropropene	0.544	0.486	-	10.7	20	54	0
Ethyl methacrylate	0.434	0.339	-	21.9*	20	48	0
1,1,2-Trichloroethane	0.264	0.255	-	3.4	20	58	0
Chlorodibromomethane	0.358	0.307	-	14.2	20	52	0
1,3-Dichloropropane	0.53	0.528	-	0.4	20	59	0
1,2-Dibromoethane	0.309	0.282	-	8.7	20	54	0
2-Hexanone	0.209	0.14	-	33*	20	41	0
Chlorobenzene	0.928	0.931	-	-0.3	20	60	0
Ethylbenzene	1.633	1.66	-	-1.7	20	60	0
1,1,1,2-Tetrachloroethane	0.355	0.329	-	7.3	20	55	0
p/m Xylene	0.625	0.625	-	0	20	58	0
o Xylene	0.583	0.615	-	-5.5	20	62	0
Styrene	0.987	0.995	-	-0.8	20	59	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	54	0
Bromoform	0.492	0.375	-	23.8*	20	44	0
Isopropylbenzene	3.099	3.398	-	-9.6	20	59	0
4-Bromofluorobenzene	0.958	0.985	-	-2.8	20	57	0
Bromobenzene	0.793	0.785	-	1	20	55	0
n-Propylbenzene	3.656	4.113	-	-12.5	20	62	0
1,4-Dichlorobutane	0.92	0.848	-	7.8	20	53	0
1,1,2,2-Tetrachloroethane	0.736	0.689	-	6.4	20	53	0
4-Ethyltoluene	2.893	3.305	-	-14.2	20	62	0
2-Chlorotoluene	2.497	2.783	-	-11.5	20	61	0
1,3,5-Trimethylbenzene	2.587	2.869	-	-10.9	20	61	0
1,2,3-Trichloropropane	0.608	0.551	-	9.4	20	53	0
trans-1,4-Dichloro-2-buten	0.197	0.142	-	27.9*	20	40	0
4-Chlorotoluene	2.246	2.473	-	-10.1	20	60	0
tert-Butylbenzene	2.31	2.35	-	-1.7	20	56	0
1,2,4-Trimethylbenzene	2.549	2.789	-	-9.4	20	59	0
sec-Butylbenzene	3.007	3.46	-	-15.1	20	62	0
p-Isopropyltoluene	2.656	3.001	-	-13	20	60	0
1,3-Dichlorobenzene	1.45	1.549	-	-6.8	20	58	0
1,4-Dichlorobenzene	1.5	1.595	-	-6.3	20	58	0
p-Diethylbenzene	1.542	1.645	-	-6.7	20	59	0
n-Butylbenzene	2.578	2.913	-	-13	20	62	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Impact Environmental	**Lab Number**	: L2046790		
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209		
Instrument ID	: VOA108	**Calibration Date**	: 10/29/20 08:10		
Lab File ID	: V08201029A01	**Init. Calib. Date(s)**	: 10/13/20	10/13/20	
Sample No	: WG1428085-2	**Init. Calib. Times**	: 15:01	18:19	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichlorobenzene	1.404	1.508	-	-7.4	20	59	0
1,2,4,5-Tetramethylbenzene	2.519	2.634	-	-4.6	20	58	0
1,2-Dibromo-3-chloropropan	0.124	0.089	-	28.2*	20	40	0
1,3,5-Trichlorobenzene	1.051	1.077	-	-2.5	20	57	0
Hexachlorobutadiene	0.465	0.437	-	6	20	52	0
1,2,4-Trichlorobenzene	1.022	0.967	-	5.4	20	54	0
Naphthalene	2.307	1.915	-	17	20	48	0
1,2,3-Trichlorobenzene	0.954	0.84	-	11.9	20	51	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Impact Environmental	**Lab Number**	: L2046790		
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209		
Instrument ID	: VOA105	**Calibration Date**	: 10/29/20 17:16		
Lab File ID	: V05201029N01	**Init. Calib. Date(s)**	: 09/30/20	09/30/20	
Sample No	: WG1428497-2	**Init. Calib. Times**	: 16:40	20:10	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	133	0
Dichlorodifluoromethane	0.153	0.214	-	-39.9*	20	212	0
Chloromethane	0.244	0.27	-	-10.7	20	166	-.01
Vinyl chloride	0.242	0.284	-	-17.4	20	171	0
Bromomethane	10	6.405	-	35.9*	20	100	0
Chloroethane	10	9.985	-	0.2	20	144	0
Trichlorofluoromethane	0.401	0.431	-	-7.5	20	157	0
Ethyl ether	0.123	0.125	-	-1.6	20	154	0
1,1-Dichloroethene	0.235	0.193	-	17.9	20	124	0
Carbon disulfide	0.47	0.442	-	6	20	146	0
Freon-113	0.226	0.205	-	9.3	20	136	0
Iodomethane	0.304	0.054	-	82.2*	20	28	0
Acrolein	0.024	0.023*	-	4.2	20	158	-.01
Methylene chloride	0.221	0.218	-	1.4	20	150	-.01
Acetone	0.05	0.041*	-	18	20	129	-.01
trans-1,2-Dichloroethene	0.206	0.2	-	2.9	20	141	0
Methyl acetate	0.125	0.108	-	13.6	20	137	-.02
Methyl tert-butyl ether	0.489	0.406	-	17	20	126	0
tert-Butyl alcohol	0.015	0.014*	-	6.7	20	154	-.03
Diisopropyl ether	0.82	0.813	-	0.9	20	150	-.02
1,1-Dichloroethane	0.438	0.443	-	-1.1	20	150	0
Halothane	0.168	0.159	-	5.4	20	141	0
Acrylonitrile	0.054	0.05	-	7.4	20	147	-.02
Ethyl tert-butyl ether	0.703	0.612	-	12.9	20	135	-.01
Vinyl acetate	0.514	0.475	-	7.6	20	140	0
cis-1,2-Dichloroethene	0.253	0.253	-	0	20	144	-.02
2,2-Dichloropropane	0.328	0.318	-	3	20	146	-.01
Bromochloromethane	0.11	0.104	-	5.5	20	138	-.01
Cyclohexane	0.429	0.441	-	-2.8	20	153	-.02
Chloroform	0.414	0.385	-	7	20	140	0
Ethyl acetate	0.183	0.164	-	10.4	20	139	-.02
Carbon tetrachloride	0.317	0.283	-	10.7	20	134	0
Tetrahydrofuran	0.048	0.048*	-	0	20	149	-.02
Dibromofluoromethane	0.271	0.262	-	3.3	20	128	0
1,1,1-Trichloroethane	0.383	0.344	-	10.2	20	133	-.01
2-Butanone	0.078	0.064*	-	17.9	20	125	-.02
1,1-Dichloropropene	0.314	0.3	-	4.5	20	140	0
Benzene	0.853	0.852	-	0.1	20	148	-.01
tert-Amyl methyl ether	0.538	0.444	-	17.5	20	127	-.02
1,2-Dichloroethane-d4	0.332	0.328	-	1.2	20	128	-.02
1,2-Dichloroethane	0.32	0.301	-	5.9	20	143	-.01
Methyl cyclohexane	0.403	0.382	-	5.2	20	146	-.01
Trichloroethene	0.25	0.231	-	7.6	20	141	-.02

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Impact Environmental	**Lab Number**	: L2046790		
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209		
Instrument ID	: VOA105	**Calibration Date**	: 10/29/20 17:16		
Lab File ID	: V05201029N01	**Init. Calib. Date(s)**	: 09/30/20	09/30/20	
Sample No	: WG1428497-2	**Init. Calib. Times**	: 16:40	20:10	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Dibromomethane	0.129	0.118	-	8.5	20	138	-.02
1,2-Dichloropropane	0.236	0.238	-	-0.8	20	153	0
Bromodichloromethane	0.304	0.274	-	9.9	20	138	0
1,4-Dioxane	0.00154	0.00109*	-	29.2*	20	93	-.02
cis-1,3-Dichloropropene	0.348	0.317	-	8.9	20	141	0
Chlorobenzene-d5	1	1	-	0	20	136	-.01
Toluene-d8	1.238	1.257	-	-1.5	20	136	-.01
Toluene	0.722	0.707	-	2.1	20	147	0
4-Methyl-2-pentanone	0.08	0.069*	-	13.7	20	143	-.01
Tetrachloroethene	0.343	0.341	-	0.6	20	149	-.01
trans-1,3-Dichloropropene	10	8.012	-	19.9	20	136	-.02
Ethyl methacrylate	0.29	0.245	-	15.5	20	140	-.02
1,1,2-Trichloroethane	0.191	0.178	-	6.8	20	141	0
Chlorodibromomethane	10	8.236	-	17.6	20	136	0
1,3-Dichloropropane	0.26	0.347	-	-33.5*	20	201	0
1,2-Dibromoethane	0.23	0.203	-	11.7	20	134	-.01
2-Hexanone	0.147	0.125	-	15	20	134	-.01
Chlorobenzene	0.813	0.758	-	6.8	20	144	-.02
Ethylbenzene	1.439	1.354	-	5.9	20	145	-.02
1,1,1,2-Tetrachloroethane	0.296	0.269	-	9.1	20	141	0
p/m Xylene	0.564	0.532	-	5.7	20	148	-.02
o Xylene	0.511	0.481	-	5.9	20	148	0
Styrene	0.846	0.785	-	7.2	20	149	-.02
1,4-Dichlorobenzene-d4	1	1	-	0	20	129	-.02
Bromoform	10	8.615	-	13.8	20	136	0
Isopropylbenzene	2.644	2.639	-	0.2	20	144	0
4-Bromofluorobenzene	0.895	0.91	-	-1.7	20	127	-.02
Bromobenzene	0.644	0.644	-	0	20	147	0
n-Propylbenzene	3.139	3.107	-	1	20	143	-.02
1,4-Dichlorobutane	0.73	0.706	-	3.3	20	143	-.01
1,1,2,2-Tetrachloroethane	0.466	0.424	-	9	20	135	0
4-Ethyltoluene	2.445	2.465	-	-0.8	20	144	-.02
2-Chlorotoluene	1.769	1.773	-	-0.2	20	145	-.01
1,3,5-Trimethylbenzene	2.184	2.178	-	0.3	20	146	-.01
1,2,3-Trichloropropane	0.391	0.356	-	9	20	135	-.02
trans-1,4-Dichloro-2-buten	0.138	0.074	-	46.4*	20	87	0
4-Chlorotoluene	1.832	1.81	-	1.2	20	144	-.01
tert-Butylbenzene	1.935	1.822	-	5.8	20	136	-.01
1,2,4-Trimethylbenzene	2.086	2.094	-	-0.4	20	145	-.01
sec-Butylbenzene	2.613	2.542	-	2.7	20	141	-.01
p-Isopropyltoluene	2.406	2.238	-	7	20	136	0
1,3-Dichlorobenzene	1.179	1.164	-	1.3	20	144	-.02
1,4-Dichlorobenzene	1.187	1.186	-	0.1	20	147	-.01

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Impact Environmental	**Lab Number**	: L2046790	
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209	
Instrument ID	: VOA105	**Calibration Date**	: 10/29/20 17:16	
Lab File ID	: V05201029N01	**Init. Calib. Date(s)**	: 09/30/20	09/30/20
Sample No	: WG1428497-2	**Init. Calib. Times**	: 16:40	20:10
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.327	1.221	-	8	20	134	0
n-Butylbenzene	2.073	1.905	-	8.1	20	136	0
1,2-Dichlorobenzene	1.047	1.041	-	0.6	20	146	0
1,2,4,5-Tetramethylbenzene	1.881	1.694	-	9.9	20	134	0
1,2-Dibromo-3-chloropropan	10	8.677	-	13.2	20	134	-.02
1,3,5-Trichlorobenzene	0.752	0.754	-	-0.3	20	147	0
Hexachlorobutadiene	0.297	0.293	-	1.3	20	148	0
1,2,4-Trichlorobenzene	0.645	0.584	-	9.5	20	135	-.01
Naphthalene	1.238	0.899	-	27.4*	20	110	0
1,2,3-Trichlorobenzene	0.524	0.412	-	21.4*	20	119	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA105\2020\201028N\
Data File : V05201028N01.d
Acq On : 28 Oct 2020 5:58 pm
Operator : VOA105:TMS
Sample : WG1428076-2
Misc : WG1428076,ICAL17185
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 28 18:28:02 2020
Quant Method : I:\VOLATILES\VOA105\2020\201028N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	130	0.00
2	TP	Dichlorodifluoromethane	0.153	0.220	-43.8#	214#	0.00
3	TP	Chloromethane	0.244	0.275	-12.7	165	-0.01
4	TC	Vinyl chloride	0.242	0.287	-18.6	169	0.00
5	TP	Bromomethane	* 10.000	8.943	10.6	139	0.00
6	TP	Chloroethane	* 10.000	12.332	-23.3#	173	0.00
7	TP	Trichlorofluoromethane	0.401	0.436	-8.7	155	0.00
8	TP	Ethyl ether	0.123	0.120	2.4	145	0.00
10	TC	1,1-Dichloroethene	0.235	0.195	17.0	123	0.00
11	TP	Carbon disulfide	0.470	0.438	6.8	142	0.00
12	TP	Freon-113	0.226	0.208	8.0	135	0.00
14	TP	Acrolein	0.024	0.022#	8.3	152	-0.01
15	TP	Methylene chloride	0.221	0.203	8.1	137	-0.01
17	TP	Acetone	0.050	0.039#	22.0#	122	-0.01
18	TP	trans-1,2-Dichloroethene	0.206	0.197	4.4	136	0.00
19	TP	Methyl acetate	0.125	0.098#	21.6#	122	-0.02
20	TP	Methyl tert-butyl ether	0.489	0.403	17.6	123	0.00
21	TP	tert-Butyl alcohol	0.015	0.013#	13.3	141	-0.03
22	TP	Diisopropyl ether	0.820	0.781	4.8	141	-0.02
23	TP	1,1-Dichloroethane	0.438	0.424	3.2	140	0.00
24	TP	Halothane	0.168	0.158	6.0	137	0.00
25	TP	Acrylonitrile	0.054	0.047#	13.0	136	-0.02
26	TP	Ethyl tert-butyl ether	0.703	0.599	14.8	129	-0.01
27	TP	Vinyl acetate	0.514	0.459	10.7	133	0.00
28	TP	cis-1,2-Dichloroethene	0.253	0.239	5.5	133	-0.02
29	TP	2,2-Dichloropropane	0.328	0.326	0.6	147	-0.01
30	TP	Bromochloromethane	0.110	0.101	8.2	132	-0.01
31	TP	Cyclohexane	0.429	0.442	-3.0	150	-0.01
32	TC	Chloroform	0.414	0.366	11.6	130	0.00
33	TP	Ethyl acetate	0.183	0.156	14.8	130	-0.02
34	TP	Carbon tetrachloride	0.317	0.281	11.4	130	0.00
35	TP	Tetrahydrofuran	0.048	0.046#	4.2	141	-0.02
36	S	Dibromofluoromethane	0.271	0.261	3.7	125	0.00
37	TP	1,1,1-Trichloroethane	0.383	0.341	11.0	129	-0.01
39	TP	2-Butanone	0.078	0.060#	23.1#	116	-0.02
40	TP	1,1-Dichloropropene	0.314	0.297	5.4	136	0.00
41	TP	Benzene	0.853	0.823	3.5	140	-0.01
42	TP	tert-Amyl methyl ether	0.538	0.438	18.6	123	-0.02
43	S	1,2-Dichloroethane-d4	0.332	0.321	3.3	123	-0.02

Data Path : I:\VOLATILES\VOA105\2020\201028N\
Data File : V05201028N01.d
Acq On : 28 Oct 2020 5:58 pm
Operator : VOA105:TMS
Sample : WG1428076-2
Misc : WG1428076,ICAL17185
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 28 18:28:02 2020
Quant Method : I:\VOLATILES\VOA105\2020\201028N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
44	TP	1,2-Dichloroethane		0.320	0.289	9.7	134	-0.01
47	TP	Methyl cyclohexane		0.403	0.380	5.7	143	-0.01
48	TP	Trichloroethene		0.250	0.225	10.0	135	-0.02
50	TP	Dibromomethane		0.129	0.115	10.9	132	-0.02
51	TC	1,2-Dichloropropane		0.236	0.234	0.8	147	0.00
54	TP	Bromodichloromethane		0.304	0.264	13.2	131	0.00
57	TP	1,4-Dioxane		0.00154	0.00123#	20.1#	103	-0.02
58	TP	cis-1,3-Dichloropropene		0.348	0.312	10.3	136	0.00
59	I	Chlorobenzene-d5		1.000	1.000	0.0	131	-0.01
60	S	Toluene-d8		1.238	1.268	-2.4	132	-0.01
61	TC	Toluene		0.722	0.690	4.4	138	0.00
62	TP	4-Methyl-2-pentanone		0.080	0.066#	17.5	132	-0.01
63	TP	Tetrachloroethene		0.343	0.339	1.2	144	-0.01
65	TP	trans-1,3-Dichloropropene	*	10.000	7.965	20.4#	131	-0.02
67	TP	Ethyl methacrylate		0.290	0.237	18.3	131	-0.02
68	TP	1,1,2-Trichloroethane		0.191	0.170	11.0	130	0.00
69	TP	Chlorodibromomethane	*	10.000	8.159	18.4	131	-0.02
70	TP	1,3-Dichloropropane		0.260	0.345	-32.7#	193	0.00
71	TP	1,2-Dibromoethane		0.230	0.200	13.0	128	-0.01
72	TP	2-Hexanone		0.147	0.121	17.7	126	-0.01
73	TP	Chlorobenzene		0.813	0.742	8.7	137	-0.02
74	TC	Ethylbenzene		1.439	1.326	7.9	138	-0.02
75	TP	1,1,1,2-Tetrachloroethane		0.296	0.264	10.8	134	0.00
76	TP	p/m Xylene		0.564	0.518	8.2	139	-0.02
77	TP	o Xylene		0.511	0.472	7.6	140	0.00
78	TP	Styrene		0.846	0.763	9.8	140	-0.02
79	I	1,4-Dichlorobenzene-d4		1.000	1.000	0.0	126	-0.02
80	TP	Bromoform	*	10.000	8.495	15.1	131	0.00
82	TP	Isopropylbenzene		2.644	2.622	0.8	140	0.00
83	S	4-Bromofluorobenzene		0.895	0.912	-1.9	124	-0.02
84	TP	Bromobenzene		0.644	0.625	3.0	139	0.00
85	TP	n-Propylbenzene		3.139	3.007	4.2	135	-0.02
86	TP	1,4-Dichlorobutane		0.730	0.686	6.0	135	-0.01
87	TP	1,1,2,2-Tetrachloroethane		0.466	0.420	9.9	130	0.00
88	TP	4-Ethyltoluene		2.445	2.395	2.0	136	-0.02
89	TP	2-Chlorotoluene		1.769	1.702	3.8	136	-0.01
90	TP	1,3,5-Trimethylbenzene		2.184	2.090	4.3	136	-0.02

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA105\2020\201028N\
Data File : V05201028N01.d
Acq On : 28 Oct 2020 5:58 pm
Operator : VOA105:TMS
Sample : WG1428076-2
Misc : WG1428076,ICAL17185
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 28 18:28:02 2020
Quant Method : I:\VOLATILES\VOA105\2020\201028N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
91 TP	1,2,3-Trichloropropane	0.391	0.346	11.5	128	-0.02
92 TP	trans-1,4-Dichloro-2-butene	0.138	0.080	42.0#	92	0.00
93 TP	4-Chlorotoluene	1.832	1.779	2.9	138	-0.01
94 TP	tert-Butylbenzene	1.935	1.786	7.7	130	-0.01
97 TP	1,2,4-Trimethylbenzene	2.086	2.001	4.1	135	-0.01
98 TP	sec-Butylbenzene	2.613	2.467	5.6	133	-0.01
99 TP	p-Isopropyltoluene	2.406	2.202	8.5	131	0.00
100 TP	1,3-Dichlorobenzene	1.179	1.138	3.5	138	-0.02
101 TP	1,4-Dichlorobenzene	1.187	1.152	2.9	139	-0.01
102 TP	p-Diethylbenzene	1.327	1.181	11.0	126	0.00
103 TP	n-Butylbenzene	2.073	1.870	9.8	130	0.00
104 TP	1,2-Dichlorobenzene	1.047	1.014	3.2	139	0.00
105 TP	1,2,4,5-Tetramethylbenzene	1.881	1.678	10.8	129	0.00
106 TP	1,2-Dibromo-3-chloropropane *	10.000	8.267	17.3	124	-0.02
107 TP	1,3,5-Trichlorobenzene	0.752	0.714	5.1	135	0.00
108 TP	Hexachlorobutadiene	0.297	0.287	3.4	141	0.00
109 TP	1,2,4-Trichlorobenzene	0.645	0.578	10.4	130	-0.01
110 TP	Naphthalene	1.238	0.953	23.0#	113	0.00
111 TP	1,2,3-Trichlorobenzene	0.524	0.426	18.7	120	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 9 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\201028N\
Data File : V05201028N01.d
Acq On : 28 Oct 2020 5:58 pm
Operator : VOA105:TMS
Sample : WG1428076-2
Misc : WG1428076,ICAL17185
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 28 18:28:02 2020
Quant Method : I:\VOLATILES\VOA105\2020\201028N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\201028N\V05201028N01.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.948	96	321491	10.000	ug/L	0.00
Standard Area 1 = 321491			Recovery = 100.00%			
59) Chlorobenzene-d5	9.461	117	246441	10.000	ug/L	-0.01
Standard Area 1 = 246441			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	12.174	152	126798	10.000	ug/L	-0.02
Standard Area 1 = 126798			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.146	113	83754	9.607	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.07%			
43) 1,2-Dichloroethane-d4	5.665	65	103049	9.644	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.44%			
60) Toluene-d8	7.621	98	312500	10.240	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.40%			
83) 4-Bromofluorobenzene	10.960	95	115580	10.181	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.81%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.625	85	70739	14.365	ug/L #	96
3) Chloromethane	1.821	50	88482	11.296	ug/L	97
4) Vinyl chloride	1.889	62	92132	11.823	ug/L	97
5) Bromomethane	2.192	94	36679	8.943	ug/L	100
6) Chloroethane	2.310	64	78106	12.332	ug/L	94
7) Trichlorofluoromethane	2.447	101	140253	10.867	ug/L	100
8) Ethyl ether	2.730	74	38666	9.763	ug/L #	42
10) 1,1-Dichloroethene	2.926	96	62851	8.311	ug/L	91
11) Carbon disulfide	2.955	76	140738	9.313	ug/L	99
12) Freon-113	2.955	101	66741	9.202	ug/L	87
14) Acrolein	3.249	56	7202	9.499	ug/L	97
15) Methylene chloride	3.474	84	65286	9.200	ug/L #	63
17) Acetone	3.523	43	12643	7.893	ug/L	95
18) trans-1,2-Dichloroethene	3.620	96	63369	9.550	ug/L	90
19) Methyl acetate	3.630	43	31390	7.814	ug/L #	81
20) Methyl tert-butyl ether	3.708	73	129502	8.233	ug/L #	85
21) tert-Butyl alcohol	3.806	59	21267	45.383	ug/L	96
22) Diisopropyl ether	4.051	45	251069	9.520	ug/L #	91
23) 1,1-Dichloroethane	4.197	63	136169	9.663	ug/L	96
24) Halothane	4.246	117	50743	9.420	ug/L	98
25) Acrylonitrile	4.256	53	15160	8.742	ug/L	90

Data Path : I:\VOLATILES\VOA105\2020\201028N\
Data File : V05201028N01.d
Acq On : 28 Oct 2020 5:58 pm
Operator : VOA105:TMS
Sample : WG1428076-2
Misc : WG1428076,ICAL17185
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 28 18:28:02 2020
Quant Method : I:\VOLATILES\VOA105\2020\201028N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\201028N\V05201028N01.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) Ethyl tert-butyl ether	4.403	59	192731	8.528	ug/L	#	78
27) Vinyl acetate	4.432	43	147533	8.936	ug/L	#	92
28) cis-1,2-Dichloroethene	4.706	96	76758	9.435	ug/L		92
29) 2,2-Dichloropropane	4.804	77	104746	9.922	ug/L		84
30) Bromochloromethane	4.902	128	32508	9.220	ug/L	#	72
31) Cyclohexane	4.892	56	141967	10.282	ug/L		70
32) Chloroform	4.970	83	117656	8.849	ug/L	#	91
33) Ethyl acetate	5.078	43	50292	8.569	ug/L	#	92
34) Carbon tetrachloride	5.097	117	90381	8.878	ug/L		98
35) Tetrahydrofuran	5.117	42	14940M1	9.705	ug/L		
37) 1,1,1-Trichloroethane	5.166	97	109661	8.895	ug/L		93
39) 2-Butanone	5.264	43	19387	7.757	ug/L	#	68
40) 1,1-Dichloropropene	5.283	75	95403	9.441	ug/L		96
41) Benzene	5.528	78	264686	9.656	ug/L	#	92
42) tert-Amyl methyl ether	5.625	73	140689	8.137	ug/L		98
44) 1,2-Dichloroethane	5.743	62	93067	9.060	ug/L		99
47) Methyl cyclohexane	6.095	83	122194	9.433	ug/L	#	71
48) Trichloroethene	6.115	95	72385	9.019	ug/L		96
50) Dibromomethane	6.564	93	36885	8.914	ug/L		96
51) 1,2-Dichloropropane	6.662	63	75087	9.892	ug/L	#	87
54) Bromodichloromethane	6.740	83	84899	8.688	ug/L		96
57) 1,4-Dioxane	6.946	88	19758	399.639	ug/L	#	81
58) cis-1,3-Dichloropropene	7.425	75	100422	8.972	ug/L	#	84
61) Toluene	7.679	92	169930	9.545	ug/L		100
62) 4-Methyl-2-pentanone	8.120	58	16304	8.265	ug/L	#	85
63) Tetrachloroethene	8.120	166	83654	9.904	ug/L		90
65) trans-1,3-Dichloropropene	8.168	75	84967	7.965	ug/L	#	80
67) Ethyl methacrylate	8.345	69	58356	8.165	ug/L		93
68) 1,1,2-Trichloroethane	8.354	83	41951	8.913	ug/L		98
69) Chlorodibromomethane	8.560	129	62587	8.159	ug/L		100
70) 1,3-Dichloropropane	8.677	76	84932	13.236	ug/L		99
71) 1,2-Dibromoethane	8.844	107	49322	8.719	ug/L		97
72) 2-Hexanone	9.128	43	29924	8.270	ug/L		95
73) Chlorobenzene	9.480	112	182848	9.125	ug/L		93
74) Ethylbenzene	9.510	91	326751	9.215	ug/L		94
75) 1,1,1,2-Tetrachloroethane	9.568	131	65101	8.938	ug/L		96
76) p/m Xylene	9.696	106	255223	18.363	ug/L		86
77) o Xylene	10.244	106	232567	18.463	ug/L		87
78) Styrene	10.313	104	375864	18.033	ug/L		90
80) Bromoform	10.352	173	34419	8.495	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\201028N\
Data File : V05201028N01.d
Acq On : 28 Oct 2020 5:58 pm
Operator : VOA105:TMS
Sample : WG1428076-2
Misc : WG1428076,ICAL17185
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 28 18:28:02 2020
Quant Method : I:\VOLATILES\VOA105\2020\201028N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\201028N\V05201028N01.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
82) Isopropylbenzene	10.626	105	332436	9.914	ug/L		96
84) Bromobenzene	11.077	156	79293	9.710	ug/L		100
85) n-Propylbenzene	11.106	91	381324	9.579	ug/L		97
86) 1,4-Dichlorobutane	11.146	55	86951	9.398	ug/L		93
87) 1,1,2,2-Tetrachloroethane	11.214	83	53287	9.014	ug/L		99
88) 4-Ethyltoluene	11.234	105	303633	9.793	ug/L		96
89) 2-Chlorotoluene	11.283	91	215775M1	9.617	ug/L		
90) 1,3,5-Trimethylbenzene	11.332	105	265010	9.570	ug/L		93
91) 1,2,3-Trichloropropane	11.351	75	43886	8.852	ug/L		96
92) trans-1,4-Dichloro-2-b...	11.410	53	10153	5.786	ug/L	#	92
93) 4-Chlorotoluene	11.469	91	225513	9.708	ug/L		93
94) tert-Butylbenzene	11.675	119	226411	9.226	ug/L		94
97) 1,2,4-Trimethylbenzene	11.763	105	253714	9.590	ug/L		93
98) sec-Butylbenzene	11.871	105	312781	9.439	ug/L		98
99) p-Isopropyltoluene	12.027	119	279186	9.150	ug/L		95
100) 1,3-Dichlorobenzene	12.096	146	144345	9.652	ug/L		96
101) 1,4-Dichlorobenzene	12.194	146	146061	9.702	ug/L		96
102) p-Diethylbenzene	12.400	119	149718	8.895	ug/L		98
103) n-Butylbenzene	12.458	91	237126	9.023	ug/L		98
104) 1,2-Dichlorobenzene	12.615	146	128577	9.685	ug/L		95
105) 1,2,4,5-Tetramethylben...	13.193	119	212766	8.923	ug/L		94
106) 1,2-Dibromo-3-chloropr...	13.399	155	6757	8.267	ug/L		99
107) 1,3,5-Trichlorobenzene	13.428	180	90579	9.503	ug/L		97
108) Hexachlorobutadiene	13.996	225	36330	9.651	ug/L		99
109) 1,2,4-Trichlorobenzene	14.026	180	73236	8.951	ug/L		99
110) Naphthalene	14.320	128	120803	7.695	ug/L		100
111) 1,2,3-Trichlorobenzene	14.486	180	54058	8.140	ug/L		98

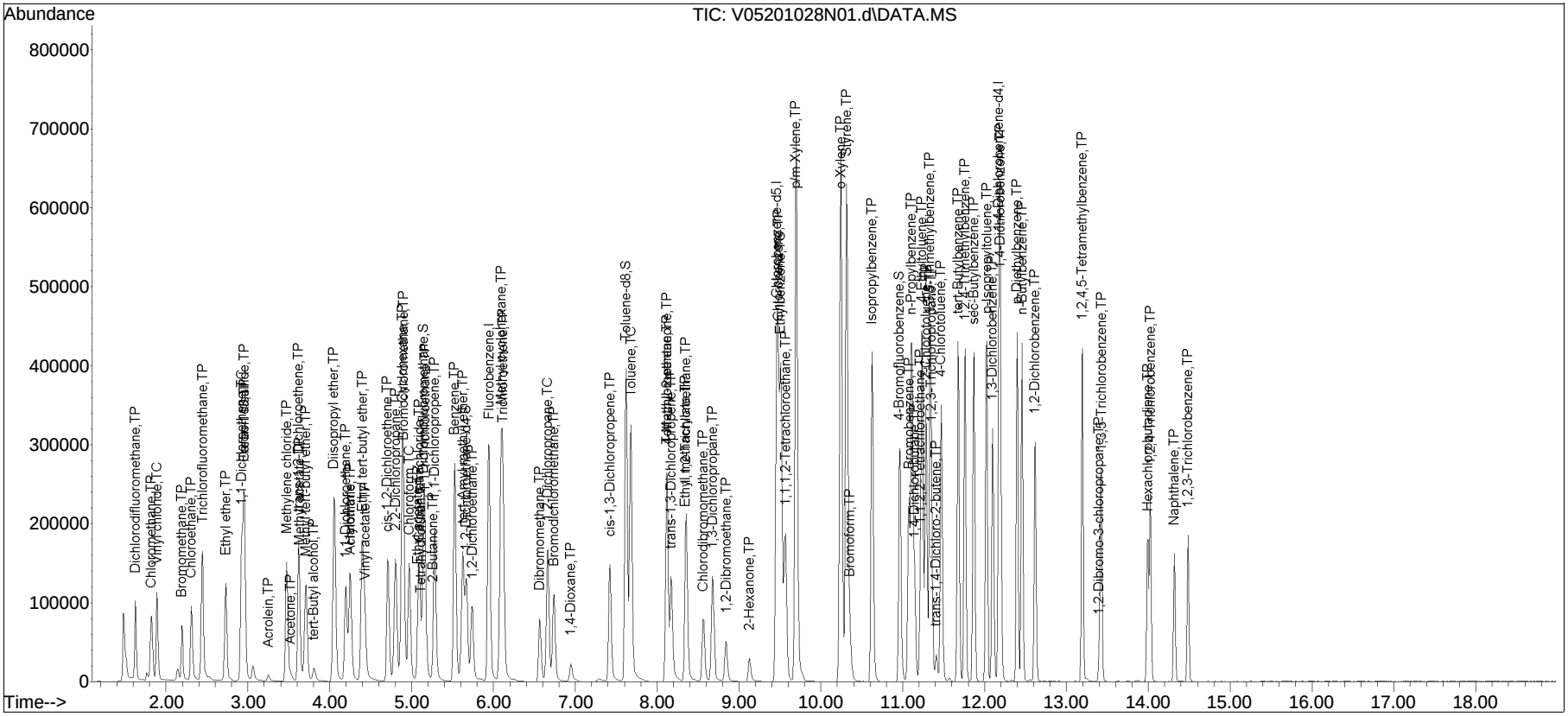
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\201028N\
Data File : V05201028N01.d
Acq On : 28 Oct 2020 5:58 pm
Operator : VOA105:TMS
Sample : WG1428076-2
Misc : WG1428076,ICAL17185
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 28 18:28:02 2020
Quant Method : I:\VOLATILES\VOA105\2020\201028N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

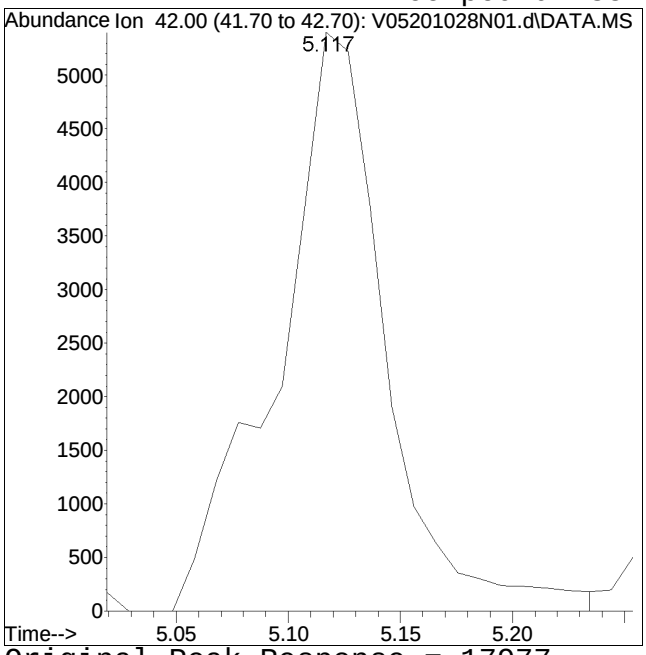
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane•

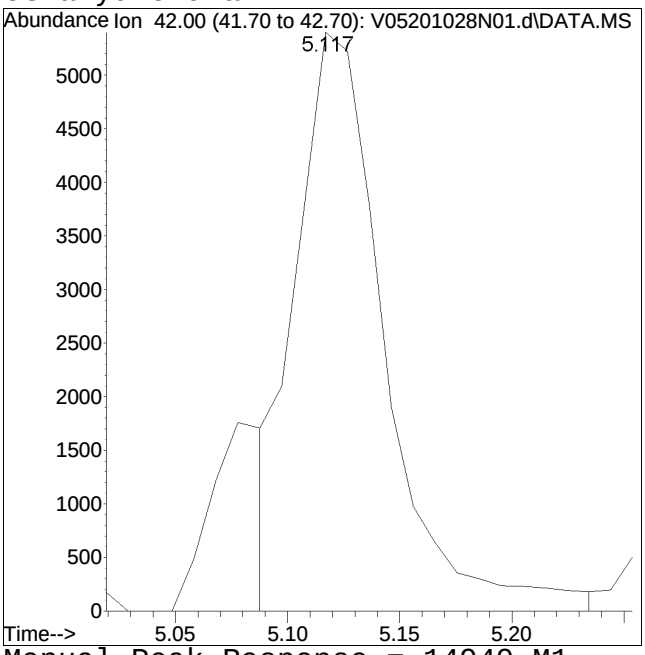


Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2020\2QMethod : V105_200930N_8260.m
Data File : V05201028N01.d Operator : VOA105:TMS
Date Inj'd : 10/28/2020 5:58 pm Instrument : VOA 105
Sample : WG1428076-2 Quant Date : 10/28/2020 6:26 pm

Compound #35: Tetrahydrofuran





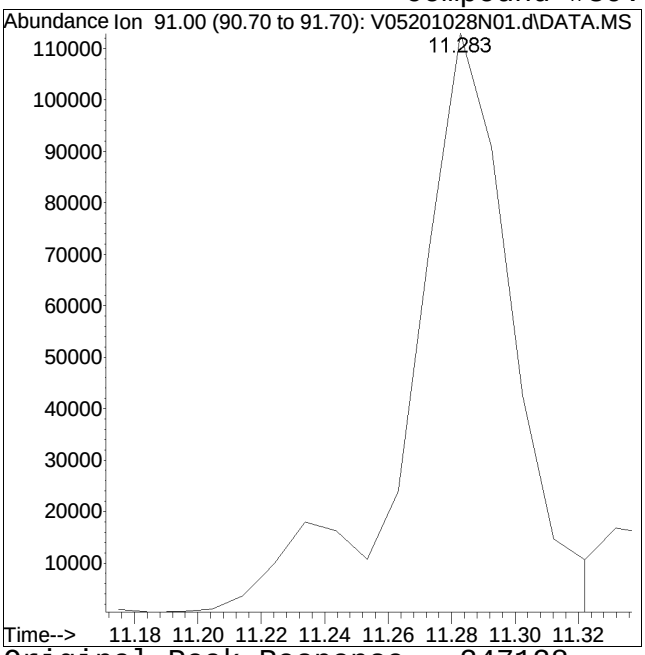
Original Peak Response = 17977 Manual Peak Response = 14940 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

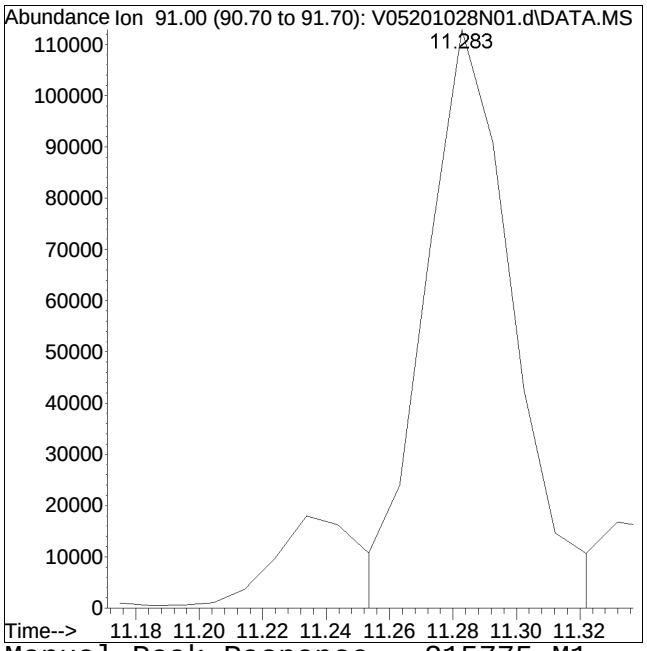
Data Path : I:\VOLATILES\VOA105\2020\2Q
Data File : V05201028N01.d
Date Inj'd : 10/28/2020 5:58 pm
Sample : WG1428076-2

Method : V105_200930N_8260.m
Operator : VOA105:TMS
Instrument : VOA 105
Quant Date : 10/28/2020 6:26 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 247128



Manual Peak Response = 215775 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA108\2020\201029A\
Data File : V08201029A01.d
Acq On : 29 Oct 2020 8:10 am
Operator : VOA108:PD
Sample : WG1428085-2
Misc : WG1428085,ICAL17242
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 29 08:27:24 2020
Quant Method : I:\VOLATILES\VOA108\2020\201029A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	66	0.00
2	TP	Dichlorodifluoromethane	0.277	0.231	16.6	53	0.00
3	TP	Chloromethane	0.257	0.197	23.3#	50	0.00
4	TC	Vinyl chloride	0.271	0.250	7.7	55	0.00
5	TP	Bromomethane	0.175	0.167	4.6	71	0.00
6	TP	Chloroethane	0.212	0.204	3.8	59	0.00
7	TP	Trichlorofluoromethane	0.426	0.465	-9.2	68	0.00
8	TP	Ethyl ether	0.131	0.110	16.0	54	0.00
10	TC	1,1-Dichloroethene	0.221	0.207	6.3	62	0.00
11	TP	Carbon disulfide	0.540	0.491	9.1	59	0.00
12	TP	Freon-113	0.204	0.217	-6.4	65	0.00
15	TP	Methylene chloride	0.264	0.248	6.1	61	0.00
17	TP	Acetone	0.055	0.046#	16.4	54	0.00
18	TP	trans-1,2-Dichloroethene	0.231	0.216	6.5	59	0.00
19	TP	Methyl acetate	0.127	0.102	19.7	57	0.00
20	TP	Methyl tert-butyl ether	0.656	0.564	14.0	55	0.00
21	TP	tert-Butyl alcohol	0.024	0.015#	37.5#	40#	-0.02
22	TP	Diisopropyl ether	0.736	0.698	5.2	62	-0.01
23	TP	1,1-Dichloroethane	0.440	0.442	-0.5	64	0.00
24	TP	Halothane	0.182	0.164	9.9	56	0.00
25	TP	Acrylonitrile	0.072	0.048#	33.3#	44#	0.00
26	TP	Ethyl tert-butyl ether	0.741	0.623	15.9	55	-0.01
27	TP	Vinyl acetate	* 10.000	10.076	-0.8	79	-0.01
28	TP	cis-1,2-Dichloroethene	0.288	0.267	7.3	58	-0.01
29	TP	2,2-Dichloropropane	0.375	0.334	10.9	57	-0.02
30	TP	Bromochloromethane	0.126	0.113	10.3	55	-0.01
31	TP	Cyclohexane	0.382	0.345	9.7	58	0.00
32	TC	Chloroform	0.457	0.419	8.3	59	0.00
33	TP	Ethyl acetate	0.200	0.150	25.0#	46#	-0.01
34	TP	Carbon tetrachloride	0.305	0.278	8.9	55	-0.02
35	TP	Tetrahydrofuran	* 10.000	7.445	25.5#	48#	-0.01
36	S	Dibromofluoromethane	0.251	0.239	4.8	63	0.00
37	TP	1,1,1-Trichloroethane	0.392	0.368	6.1	59	-0.01
39	TP	2-Butanone	0.092	0.060#	34.8#	43#	-0.02
40	TP	1,1-Dichloropropene	0.320	0.304	5.0	61	0.00
41	TP	Benzene	0.976	0.895	8.3	59	0.00
42	TP	tert-Amyl methyl ether	0.712	0.562	21.1#	51	-0.01
43	S	1,2-Dichloroethane-d4	0.292	0.264	9.6	63	-0.01
44	TP	1,2-Dichloroethane	0.335	0.310	7.5	60	0.00

Data Path : I:\VOLATILES\VOA108\2020\201029A\
Data File : V08201029A01.d
Acq On : 29 Oct 2020 8:10 am
Operator : VOA108:PD
Sample : WG1428085-2
Misc : WG1428085,ICAL17242
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 29 08:27:24 2020
Quant Method : I:\VOLATILES\VOA108\2020\201029A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
47	TP	Methyl cyclohexane	0.394	0.398	-1.0	64	0.00
48	TP	Trichloroethene	0.265	0.252	4.9	62	0.00
50	TP	Dibromomethane	0.163	0.147	9.8	58	0.00
51	TC	1,2-Dichloropropane	0.253	0.243	4.0	62	0.00
54	TP	Bromodichloromethane	0.363	0.323	11.0	58	0.00
57	TP	1,4-Dioxane	0.00219	0.00144#	34.2#	43#	-0.01
58	TP	cis-1,3-Dichloropropene	0.433	0.379	12.5	58	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	61	0.00
60	S	Toluene-d8	1.322	1.392	-5.3	64	0.00
61	TC	Toluene	0.866	0.919	-6.1	63	0.00
62	TP	4-Methyl-2-pentanone	0.117	0.088#	24.8#	44#	0.00
63	TP	Tetrachloroethene	0.548	0.375	31.6#	39#	0.00
65	TP	trans-1,3-Dichloropropene	0.544	0.486	10.7	54	0.00
67	TP	Ethyl methacrylate	0.434	0.339	21.9#	48#	0.00
68	TP	1,1,2-Trichloroethane	0.264	0.255	3.4	58	0.00
69	TP	Chlorodibromomethane	0.358	0.307	14.2	52	0.00
70	TP	1,3-Dichloropropane	0.530	0.528	0.4	59	0.00
71	TP	1,2-Dibromoethane	0.309	0.282	8.7	54	0.00
72	TP	2-Hexanone	0.209	0.140	33.0#	41#	0.00
73	TP	Chlorobenzene	0.928	0.931	-0.3	60	0.00
74	TC	Ethylbenzene	1.633	1.660	-1.7	60	0.00
75	TP	1,1,1,2-Tetrachloroethane	0.355	0.329	7.3	55	0.00
76	TP	p/m Xylene	0.625	0.625	0.0	58	0.00
77	TP	o Xylene	0.583	0.615	-5.5	62	0.00
78	TP	Styrene	0.987	0.995	-0.8	59	0.00
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	54	0.00
80	TP	Bromoform	0.492	0.375	23.8#	44#	0.00
82	TP	Isopropylbenzene	3.099	3.398	-9.6	59	0.00
83	S	4-Bromofluorobenzene	0.958	0.985	-2.8	57	0.00
84	TP	Bromobenzene	0.793	0.785	1.0	55	0.00
85	TP	n-Propylbenzene	3.656	4.113	-12.5	62	0.00
86	TP	1,4-Dichlorobutane	0.920	0.848	7.8	53	0.00
87	TP	1,1,2,2-Tetrachloroethane	0.736	0.689	6.4	53	0.00
88	TP	4-Ethyltoluene	2.893	3.305	-14.2	62	0.00
89	TP	2-Chlorotoluene	2.497	2.783	-11.5	61	0.00
90	TP	1,3,5-Trimethylbenzene	2.587	2.869	-10.9	61	0.00
91	TP	1,2,3-Trichloropropane	0.608	0.551	9.4	53	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA108\2020\201029A\
Data File : V08201029A01.d
Acq On : 29 Oct 2020 8:10 am
Operator : VOA108:PD
Sample : WG1428085-2
Misc : WG1428085,ICAL17242
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 29 08:27:24 2020
Quant Method : I:\VOLATILES\VOA108\2020\201029A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
92 TP	trans-1,4-Dichloro-2-butene	0.197	0.142	27.9#	40#	0.00
93 TP	4-Chlorotoluene	2.246	2.473	-10.1	60	0.00
94 TP	tert-Butylbenzene	2.310	2.350	-1.7	56	0.00
97 TP	1,2,4-Trimethylbenzene	2.549	2.789	-9.4	59	0.00
98 TP	sec-Butylbenzene	3.007	3.460	-15.1	62	0.00
99 TP	p-Isopropyltoluene	2.656	3.001	-13.0	60	0.00
100 TP	1,3-Dichlorobenzene	1.450	1.549	-6.8	58	0.00
101 TP	1,4-Dichlorobenzene	1.500	1.595	-6.3	58	0.00
102 TP	p-Diethylbenzene	1.542	1.645	-6.7	59	0.00
103 TP	n-Butylbenzene	2.578	2.913	-13.0	62	0.00
104 TP	1,2-Dichlorobenzene	1.404	1.508	-7.4	59	0.00
105 TP	1,2,4,5-Tetramethylbenzene	2.519	2.634	-4.6	58	0.00
106 TP	1,2-Dibromo-3-chloropropane	0.124	0.089	28.2#	40#	0.00
107 TP	1,3,5-Trichlorobenzene	1.051	1.077	-2.5	57	0.00
108 TP	Hexachlorobutadiene	0.465	0.437	6.0	52	0.00
109 TP	1,2,4-Trichlorobenzene	1.022	0.967	5.4	54	0.00
110 TP	Naphthalene	2.307	1.915	17.0	48#	0.00
111 TP	1,2,3-Trichlorobenzene	0.954	0.840	11.9	51	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 6 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201029A\
Data File : V08201029A01.d
Acq On : 29 Oct 2020 8:10 am
Operator : VOA108:PD
Sample : WG1428085-2
Misc : WG1428085,ICAL17242
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 29 08:27:24 2020
Quant Method : I:\VOLATILES\VOA108\2020\201029A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
Response via : Initial Calibration

Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	5.384	96	152206	10.000	ug/L		0.00
59) Chlorobenzene-d5	8.420	117	101386	10.000	ug/L		0.00
79) 1,4-Dichlorobenzene-d4	9.914	152	48766	10.000	ug/L		0.00
System Monitoring Compounds							
36) Dibromofluoromethane	4.388	113	36442	9.547	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.47%				
43) 1,2-Dichloroethane-d4	5.033	65	40209	9.040	ug/L		-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 90.40%				
60) Toluene-d8	7.093	98	141083	10.524	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.24%				
83) 4-Bromofluorobenzene	9.243	95	48033	10.276	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.76%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	0.933	85	35125	8.319	ug/L		97
3) Chloromethane	1.048	50	29983	7.670	ug/L		98
4) Vinyl chloride	1.101	62	38112	9.250	ug/L		91
5) Bromomethane	1.300	94	25421	9.530	ug/L		98
6) Chloroethane	1.379	64	31090	9.641	ug/L		95
7) Trichlorofluoromethane	1.473	101	70746	10.913	ug/L		91
8) Ethyl ether	1.698	74	16812M1	8.408	ug/L		
10) 1,1-Dichloroethene	1.824	96	31481	9.356	ug/L	#	63
11) Carbon disulfide	1.835	76	74802	9.098	ug/L		97
12) Freon-113	1.861	101	33041	10.632	ug/L		98
15) Methylene chloride	2.291	84	37725	9.387	ug/L		69
17) Acetone	2.343	43	6963M1	8.320	ug/L		
18) trans-1,2-Dichloroethene	2.438	96	32828	9.317	ug/L		72
19) Methyl acetate	2.469	43	15484M1	8.005	ug/L		
20) Methyl tert-butyl ether	2.553	73	85778M1	8.597	ug/L		
21) tert-Butyl alcohol	2.689	59	11396M1	30.707	ug/L		
22) Diisopropyl ether	2.962	45	106196M1	9.480	ug/L		
23) 1,1-Dichloroethane	3.046	63	67263M1	10.045	ug/L		
24) Halothane	3.193	117	24920M1	9.006	ug/L		
25) Acrylonitrile	3.114	53	7284	6.602	ug/L		93
26) Ethyl tert-butyl ether	3.392	59	94861M1	8.408	ug/L		
27) Vinyl acetate	3.397	43	57840	10.076	ug/L	#	96
28) cis-1,2-Dichloroethene	3.712	96	40613M1	9.263	ug/L		
29) 2,2-Dichloropropane	3.837	77	50812M1	8.902	ug/L		
30) Bromochloromethane	3.974	128	17124M1	8.946	ug/L		

Data Path : I:\VOLATILES\VOA108\2020\201029A\
Data File : V08201029A01.d
Acq On : 29 Oct 2020 8:10 am
Operator : VOA108:PD
Sample : WG1428085-2
Misc : WG1428085,ICAL17242
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 29 08:27:24 2020
Quant Method : I:\VOLATILES\VOA108\2020\201029A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
Response via : Initial Calibration

Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
31) Cyclohexane	3.953	56	52534	9.030	ug/L	#	59
32) Chloroform	4.142	83	63718	9.169	ug/L		97
33) Ethyl acetate	4.383	43	22898M1	7.536	ug/L		
34) Carbon tetrachloride	4.262	117	42240	9.088	ug/L		98
35) Tetrahydrofuran	4.336	42	7550	7.445	ug/L	#	72
37) 1,1,1-Trichloroethane	4.362	97	56009	9.394	ug/L	#	94
39) 2-Butanone	4.572	43	9195M1	6.567	ug/L		
40) 1,1-Dichloropropene	4.540	75	46284	9.492	ug/L		96
41) Benzene	4.855	78	136202	9.166	ug/L	#	88
42) tert-Amyl methyl ether	5.080	73	85610M1	7.903	ug/L		
44) 1,2-Dichloroethane	5.117	62	47218	9.253	ug/L		99
47) Methyl cyclohexane	5.541	83	60638	10.102	ug/L	#	65
48) Trichloroethene	5.583	95	38315	9.504	ug/L		99
50) Dibromomethane	6.040	93	22353	9.014	ug/L		98
51) 1,2-Dichloropropane	6.144	63	36957	9.586	ug/L		98
54) Bromodichloromethane	6.260	83	49158	8.885	ug/L		98
57) 1,4-Dioxane	6.480	88	10984	328.865	ug/L	#	69
58) cis-1,3-Dichloropropene	6.920	75	57641	8.737	ug/L		93
61) Toluene	7.146	92	93146	10.612	ug/L		97
62) 4-Methyl-2-pentanone	7.565	58	8872	7.493	ug/L	#	88
63) Tetrachloroethene	7.513	166	38036	6.851	ug/L		95
65) trans-1,3-Dichloropropene	7.581	75	49311	8.949	ug/L		96
67) Ethyl methacrylate	7.775	69	34384	7.810	ug/L		97
68) 1,1,2-Trichloroethane	7.712	83	25823	9.664	ug/L		96
69) Chlorodibromomethane	7.854	129	31150	8.583	ug/L		98
70) 1,3-Dichloropropane	7.927	76	53502	9.959	ug/L		100
71) 1,2-Dibromoethane	8.011	107	28612	9.130	ug/L		100
72) 2-Hexanone	8.263	43	14208M1	6.717	ug/L		
73) Chlorobenzene	8.430	112	94386	10.030	ug/L		91
74) Ethylbenzene	8.472	91	168338	10.170	ug/L		99
75) 1,1,1,2-Tetrachloroethane	8.493	131	33369	9.283	ug/L		95
76) p/m Xylene	8.577	106	126693	19.991	ug/L		99
77) o Xylene	8.866	106	124734	21.093	ug/L		89
78) Styrene	8.902	104	201819	20.168	ug/L		90
80) Bromoform	8.908	173	18281	7.621	ug/L		94
82) Isopropylbenzene	9.075	105	165704	10.964	ug/L		98
84) Bromobenzene	9.301	156	38285	9.903	ug/L		95
85) n-Propylbenzene	9.337	91	200580	11.250	ug/L		99
86) 1,4-Dichlorobutane	9.343	55	41330	9.209	ug/L		98
87) 1,1,2,2-Tetrachloroethane	9.390	83	33585	9.355	ug/L		94
88) 4-Ethyltoluene	9.406	105	161164	11.423	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201029A\
Data File : V08201029A01.d
Acq On : 29 Oct 2020 8:10 am
Operator : VOA108:PD
Sample : WG1428085-2
Misc : WG1428085,ICAL17242
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 29 08:27:24 2020
Quant Method : I:\VOLATILES\VOA108\2020\201029A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
Response via : Initial Calibration

Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
89)	2-Chlorotoluene	9.421	91	135694	11.142	ug/L		97
90)	1,3,5-Trimethylbenzene	9.463	105	139887	11.089	ug/L		92
91)	1,2,3-Trichloropropane	9.458	75	26864	9.064	ug/L		98
92)	trans-1,4-Dichloro-2-b...	9.495	53	6902	7.180	ug/L	#	83
93)	4-Chlorotoluene	9.521	91	120605	11.013	ug/L		94
94)	tert-Butylbenzene	9.647	119	114595	10.174	ug/L		94
97)	1,2,4-Trimethylbenzene	9.689	105	136008	10.940	ug/L		93
98)	sec-Butylbenzene	9.752	105	168727	11.508	ug/L		98
99)	p-Isopropyltoluene	9.841	119	146353	11.301	ug/L		96
100)	1,3-Dichlorobenzene	9.872	146	75561	10.687	ug/L		97
101)	1,4-Dichlorobenzene	9.925	146	77800	10.634	ug/L		99
102)	p-Diethylbenzene	10.051	119	80235	10.671	ug/L		96
103)	n-Butylbenzene	10.082	91	142058	11.300	ug/L		98
104)	1,2-Dichlorobenzene	10.166	146	73532	10.738	ug/L		96
105)	1,2,4,5-Tetramethylben...	10.507	119	128429	10.453	ug/L		97
106)	1,2-Dibromo-3-chloropr...	10.622	155	4327	7.160	ug/L		97
107)	1,3,5-Trichlorobenzene	10.638	180	52504	10.242	ug/L		95
108)	Hexachlorobutadiene	10.979	225	21287	9.386	ug/L		96
109)	1,2,4-Trichlorobenzene	10.994	180	47157	9.460	ug/L		99
110)	Naphthalene	11.173	128	93409	8.301	ug/L		100
111)	1,2,3-Trichlorobenzene	11.277	180	40969	8.810	ug/L		98

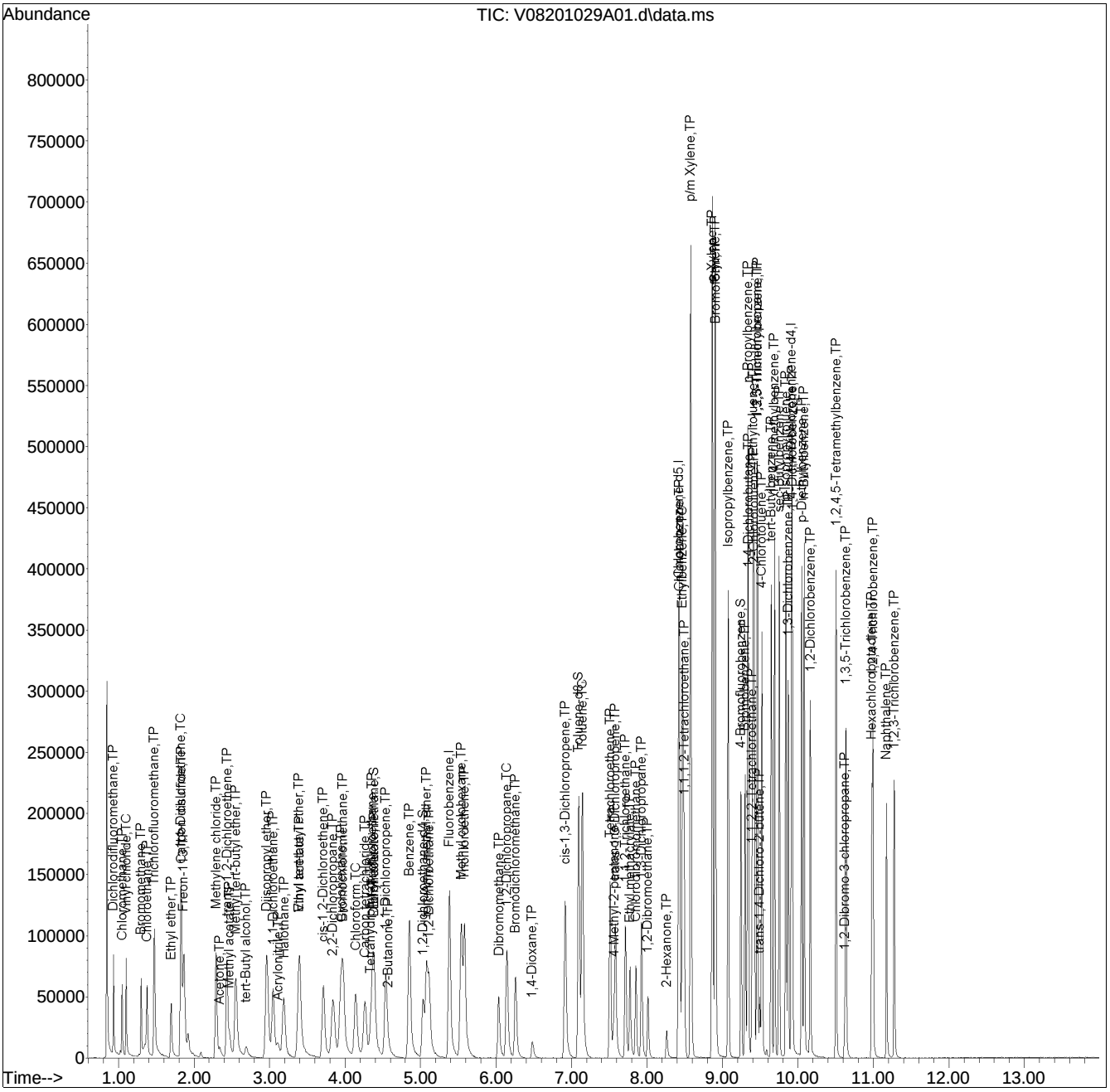
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201029A\
Data File : V08201029A01.d
Acq On : 29 Oct 2020 8:10 am
Operator : VOA108:PD
Sample : WG1428085-2
Misc : WG1428085,ICAL17242
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 29 08:27:24 2020
Quant Method : I:\VOLATILES\VOA108\2020\201029A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
Response via : Initial Calibration

Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

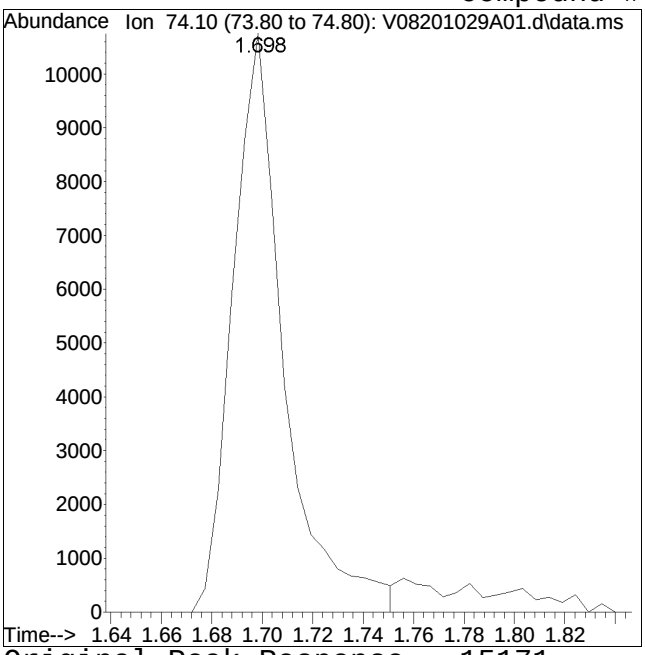


Manual Integration Report

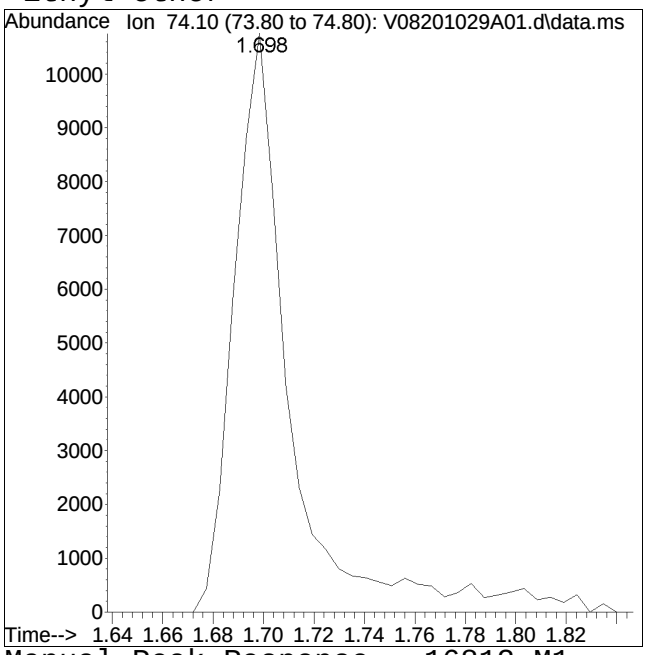
Data Path : I:\VOLATILES\VOA108\2020\2Q
Data File : V08201029A01.d
Date Inj'd : 10/29/2020 8:10 am
Sample : WG1428085-2

Method : V108_201013A_8260.m
Operator : VOA108:PD
Instrument : VOA 108
Quant Date : 10/29/2020 8:25 am

Compound #8: Ethyl ether



Original Peak Response = 15171



Manual Peak Response = 16812 M1

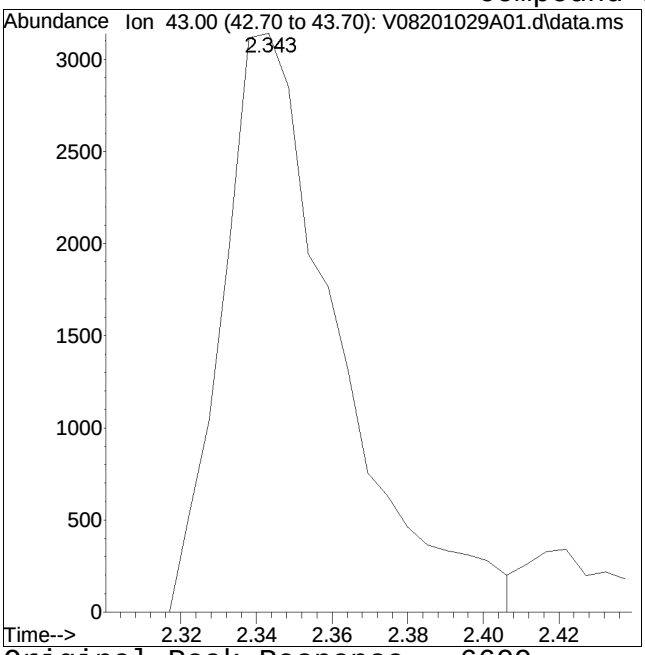
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

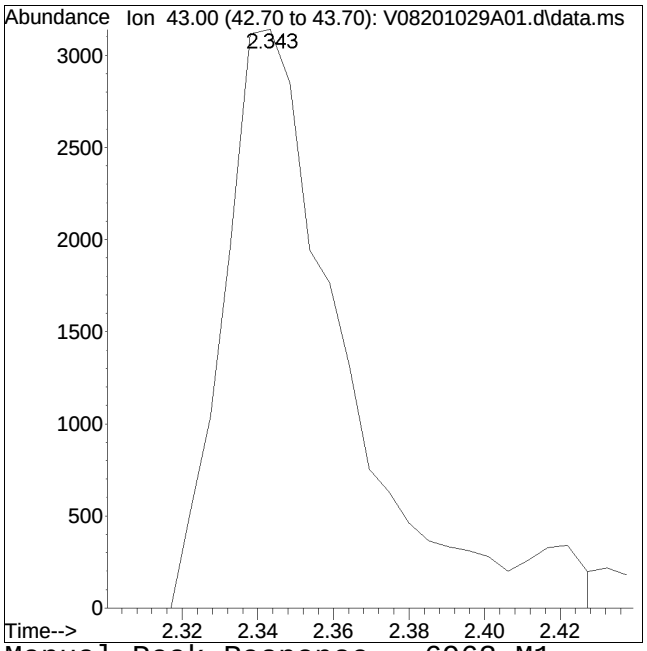
Data Path : I:\VOLATILES\VOA108\2020\2Q
Data File : V08201029A01.d
Date Inj'd : 10/29/2020 8:10 am
Sample : WG1428085-2

Method : V108_201013A_8260.m
Operator : VOA108:PD
Instrument : VOA 108
Quant Date : 10/29/2020 8:25 am

Compound #17: Acetone



Original Peak Response = 6609



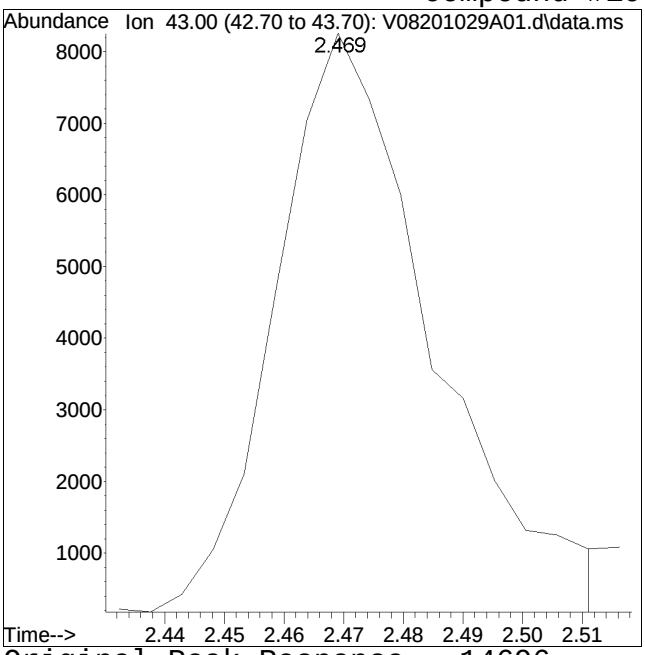
Manual Peak Response = 6963 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

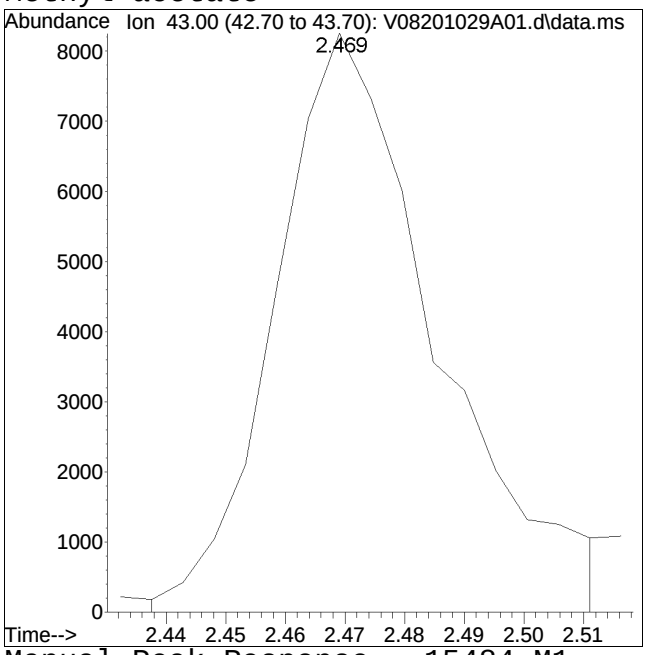
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201029A01.d Operator : VOA108:PD
Date Inj'd : 10/29/2020 8:10 am Instrument : VOA 108
Sample : WG1428085-2 Quant Date : 10/29/2020 8:25 am

Compound #19: Methyl acetate



Original Peak Response = 14696



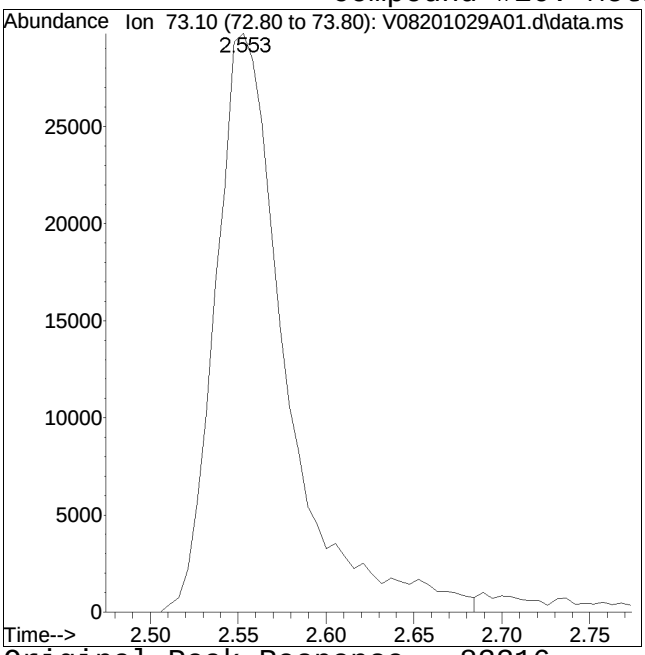
Manual Peak Response = 15484 M1

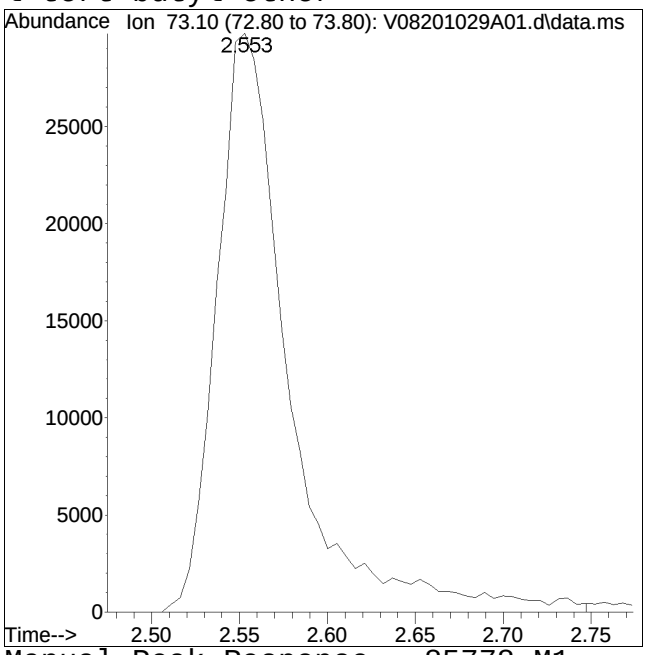
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201029A01.d Operator : VOA108:PD
Date Inj'd : 10/29/2020 8:10 am Instrument : VOA 108
Sample : WG1428085-2 Quant Date : 10/29/2020 8:25 am

Compound #20: Methyl tert-butyl ether



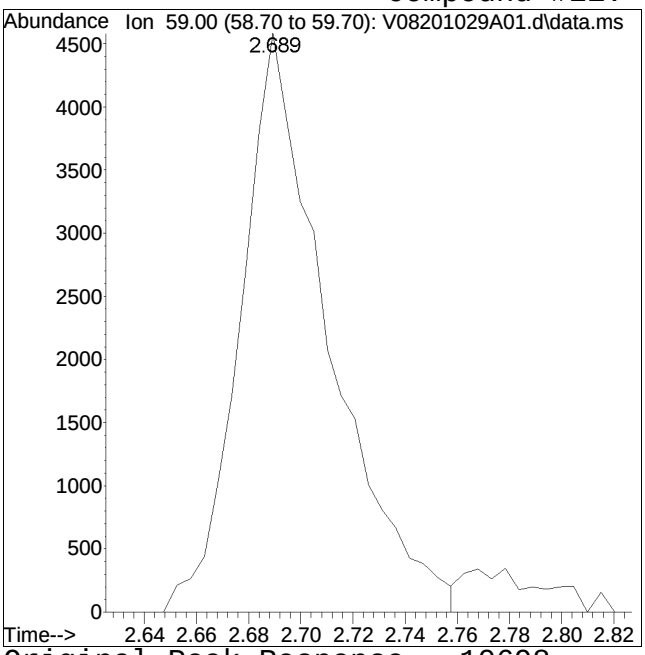


Original Peak Response = 83316 Manual Peak Response = 85778 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

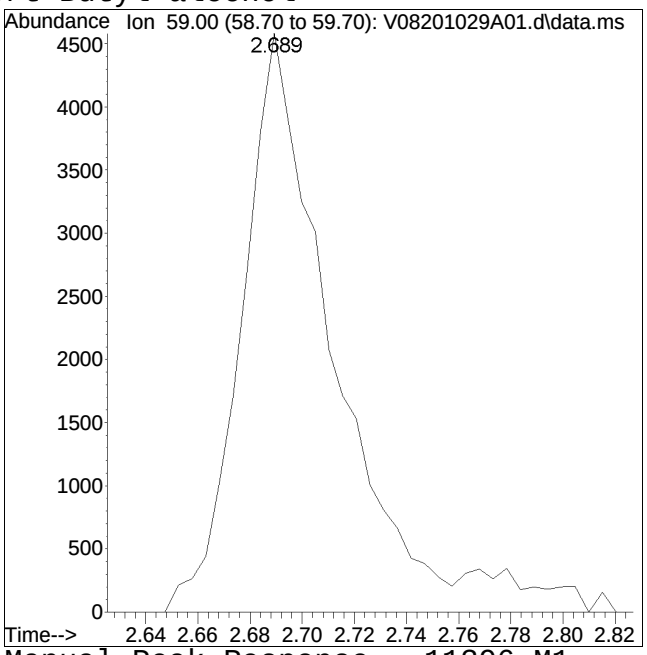
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201029A01.d Operator : VOA108:PD
Date Inj'd : 10/29/2020 8:10 am Instrument : VOA 108
Sample : WG1428085-2 Quant Date : 10/29/2020 8:25 am

Compound #21: tert-Butyl alcohol



Original Peak Response = 10698



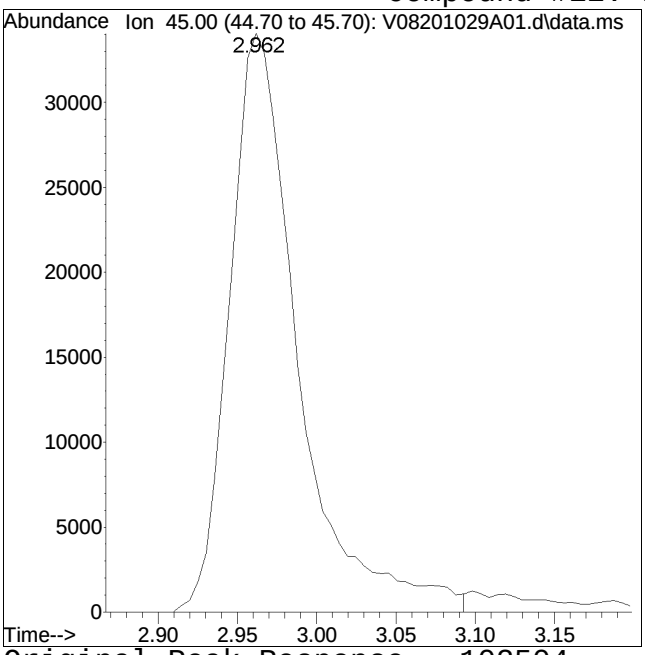
Manual Peak Response = 11396 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

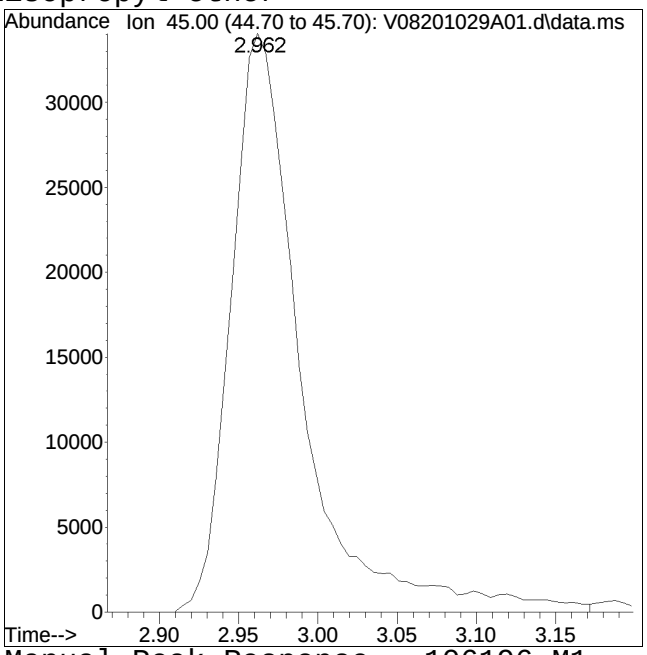
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201029A01.d Operator : VOA108:PD
Date Inj'd : 10/29/2020 8:10 am Instrument : VOA 108
Sample : WG1428085-2 Quant Date : 10/29/2020 8:25 am

Compound #22: Diisopropyl ether



Original Peak Response = 102504



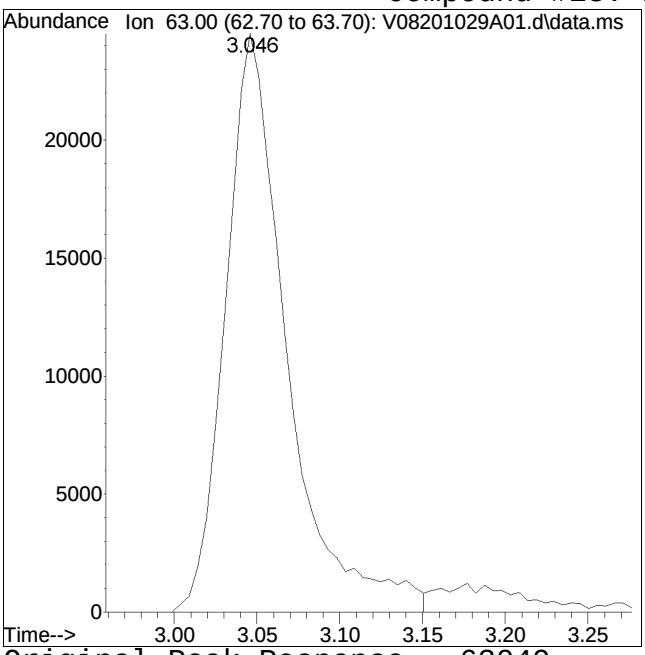
Manual Peak Response = 106196 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

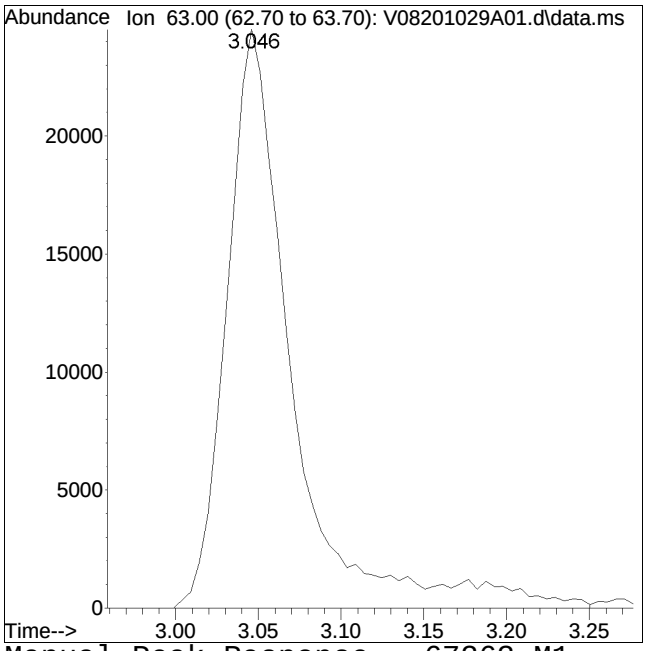
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201029A01.d Operator : VOA108:PD
Date Inj'd : 10/29/2020 8:10 am Instrument : VOA 108
Sample : WG1428085-2 Quant Date : 10/29/2020 8:25 am

Compound #23: 1,1-Dichloroethane



Original Peak Response = 63049



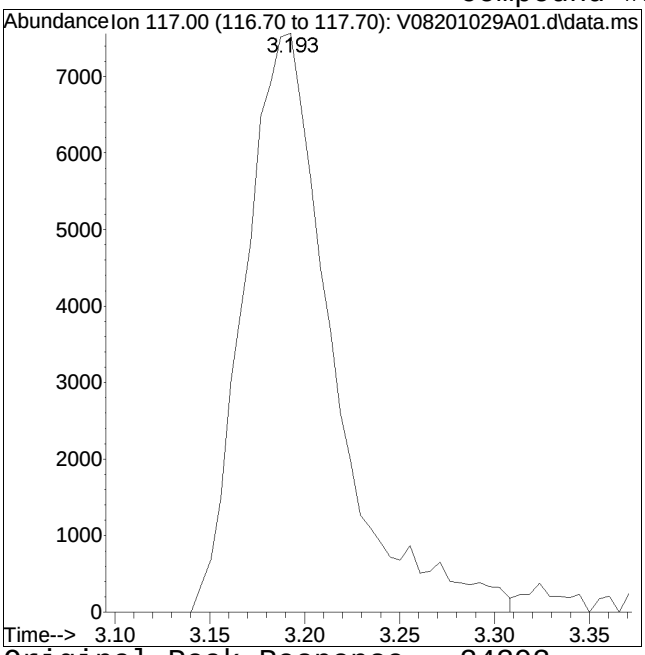
Manual Peak Response = 67263 M1

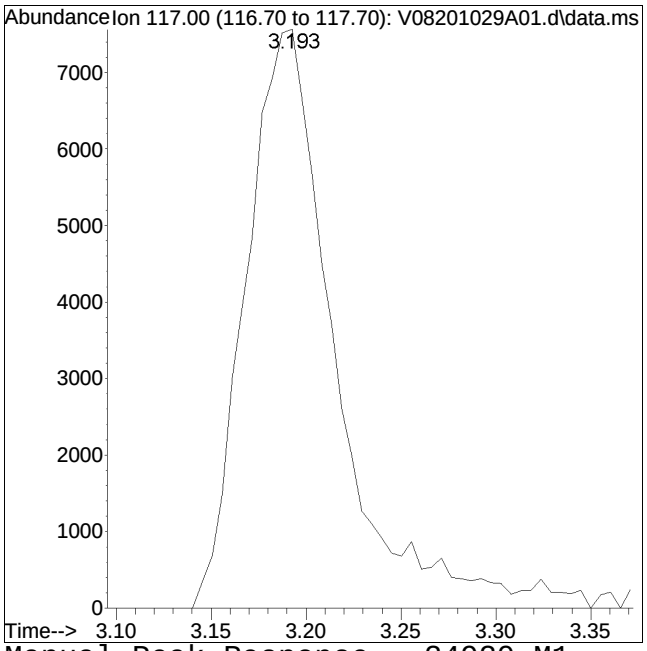
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201029A01.d Operator : VOA108:PD
Date Inj'd : 10/29/2020 8:10 am Instrument : VOA 108
Sample : WG1428085-2 Quant Date : 10/29/2020 8:25 am

Compound #24: Halothane



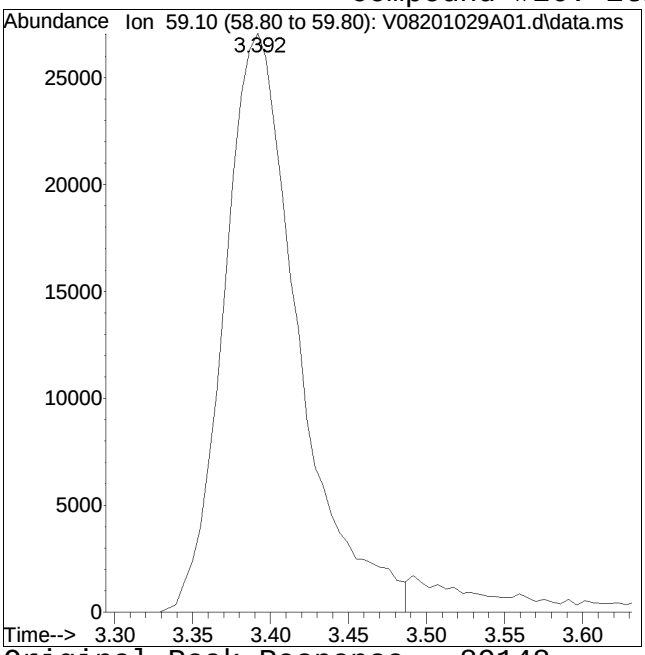


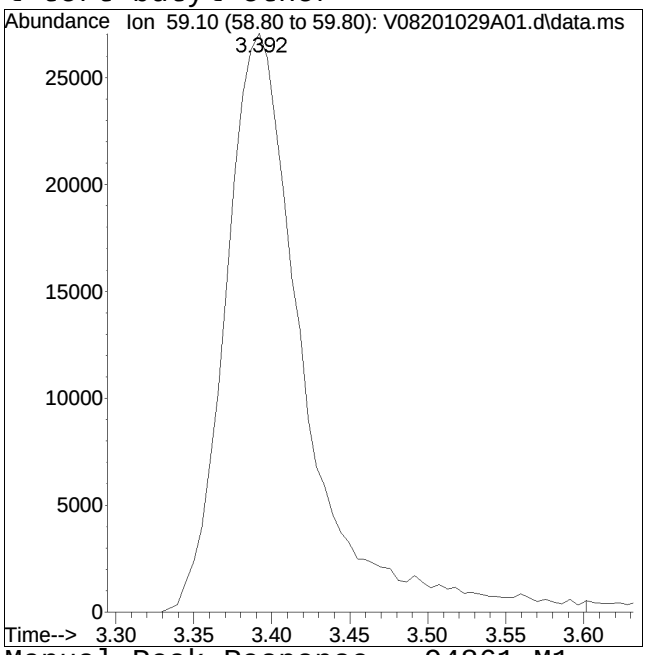
Original Peak Response = 24393 Manual Peak Response = 24920 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201029A01.d Operator : VOA108:PD
Date Inj'd : 10/29/2020 8:10 am Instrument : VOA 108
Sample : WG1428085-2 Quant Date : 10/29/2020 8:25 am

Compound #26: Ethyl tert-butyl ether



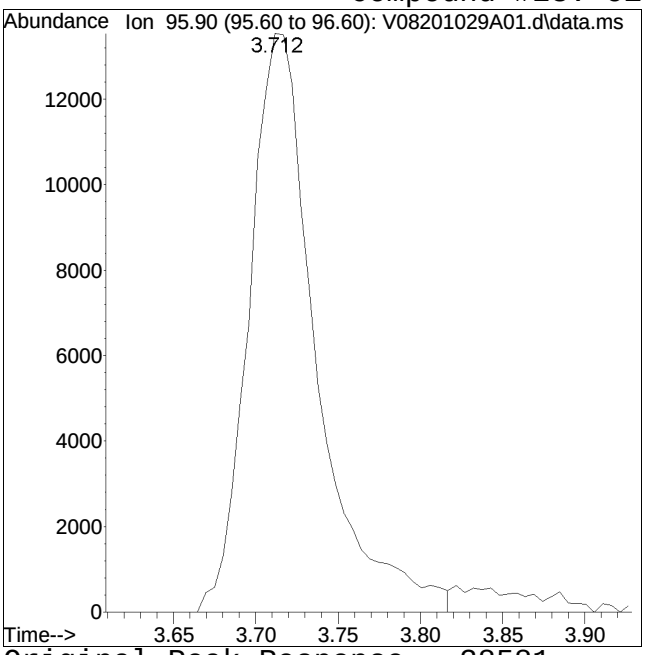


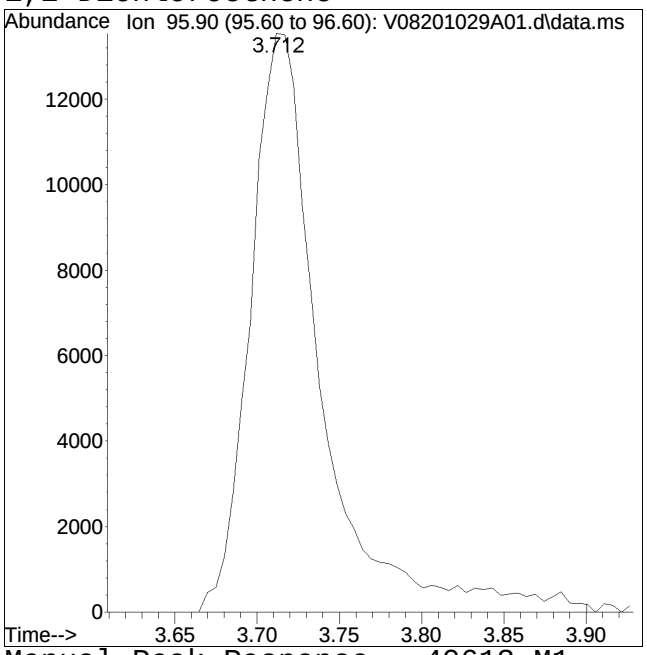
Original Peak Response = 89148 Manual Peak Response = 94861 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201029A01.d Operator : VOA108:PD
Date Inj'd : 10/29/2020 8:10 am Instrument : VOA 108
Sample : WG1428085-2 Quant Date : 10/29/2020 8:25 am

Compound #28: cis-1,2-Dichloroethene



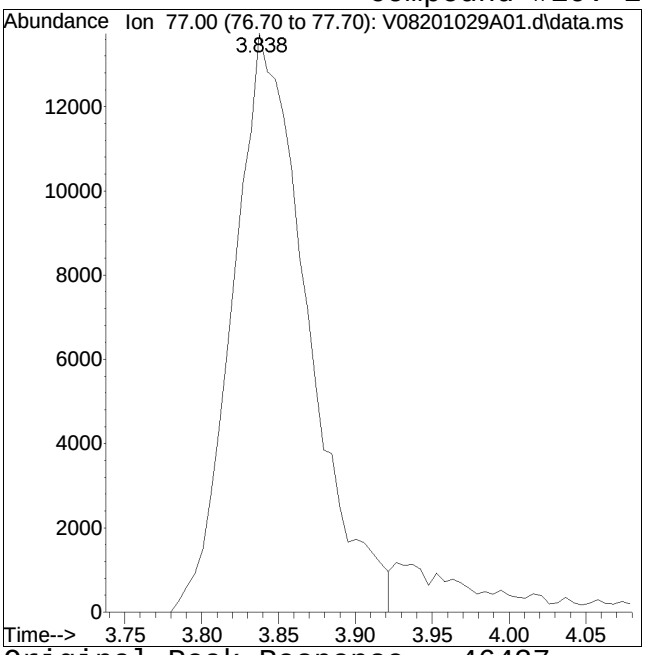


Original Peak Response = 38581 Manual Peak Response = 40613 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

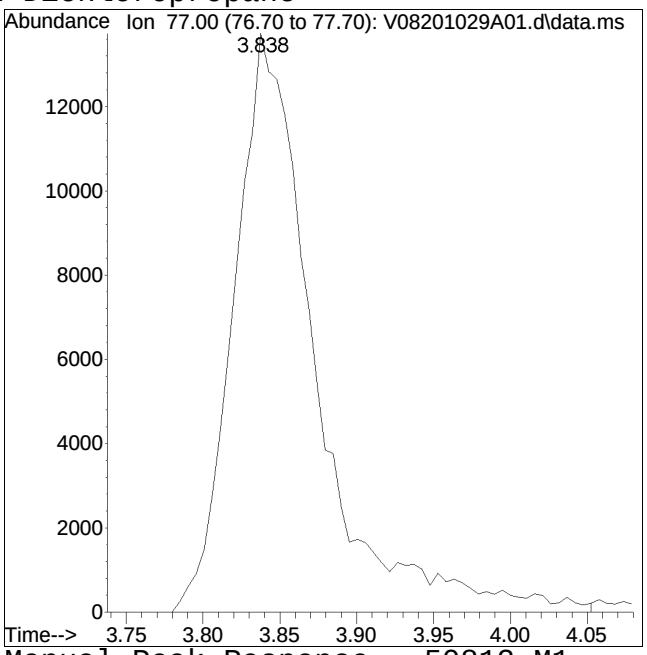
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201029A01.d Operator : VOA108:PD
Date Inj'd : 10/29/2020 8:10 am Instrument : VOA 108
Sample : WG1428085-2 Quant Date : 10/29/2020 8:25 am

Compound #29: 2,2-Dichloropropane



Original Peak Response = 46437



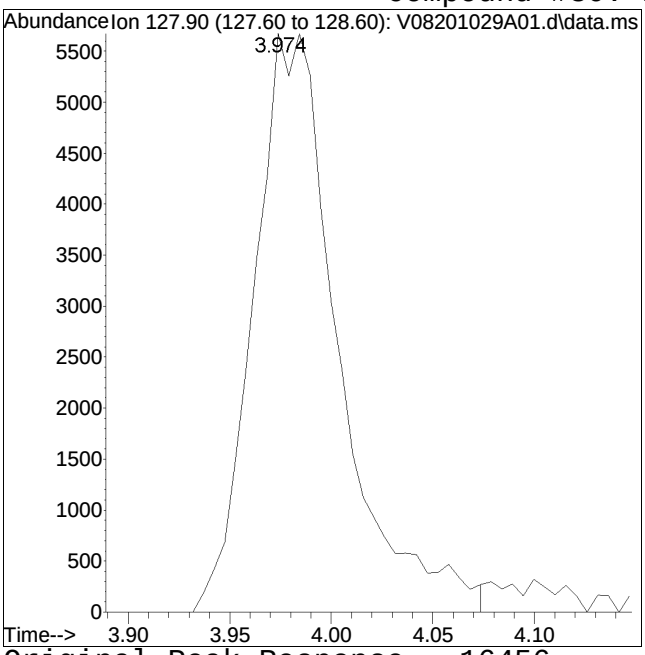
Manual Peak Response = 50812 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

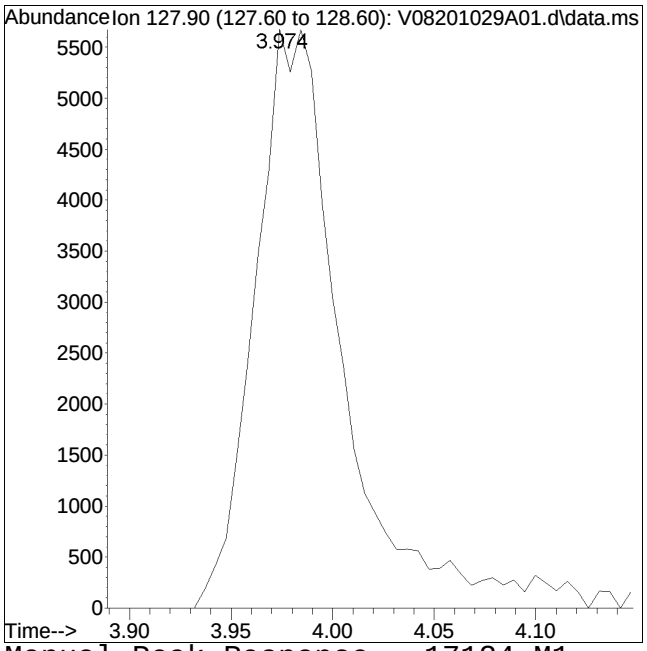
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201029A01.d Operator : VOA108:PD
Date Inj'd : 10/29/2020 8:10 am Instrument : VOA 108
Sample : WG1428085-2 Quant Date : 10/29/2020 8:25 am

Compound #30: Bromochloromethane



Original Peak Response = 16456



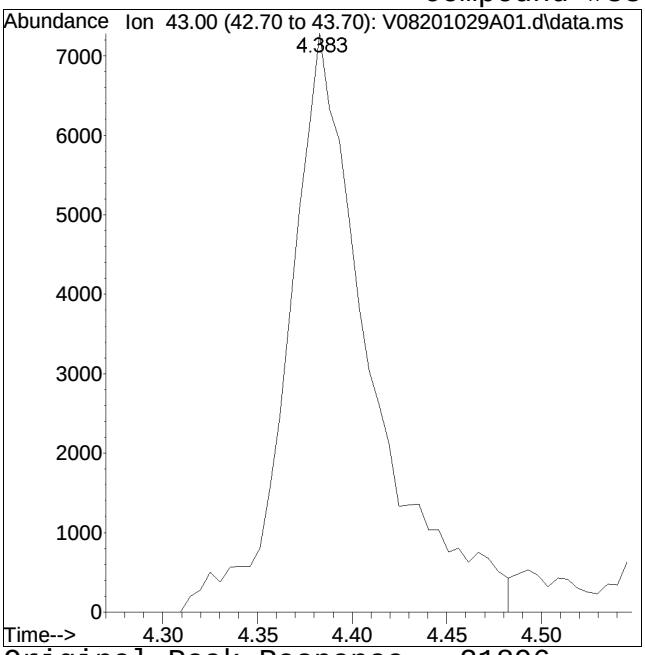
Manual Peak Response = 17124 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

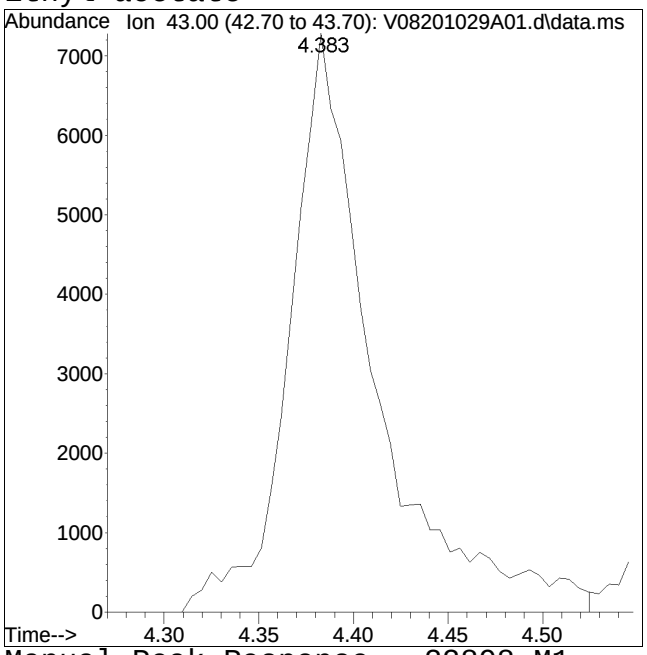
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201029A01.d Operator : VOA108:PD
Date Inj'd : 10/29/2020 8:10 am Instrument : VOA 108
Sample : WG1428085-2 Quant Date : 10/29/2020 8:25 am

Compound #33: Ethyl acetate



Original Peak Response = 21896



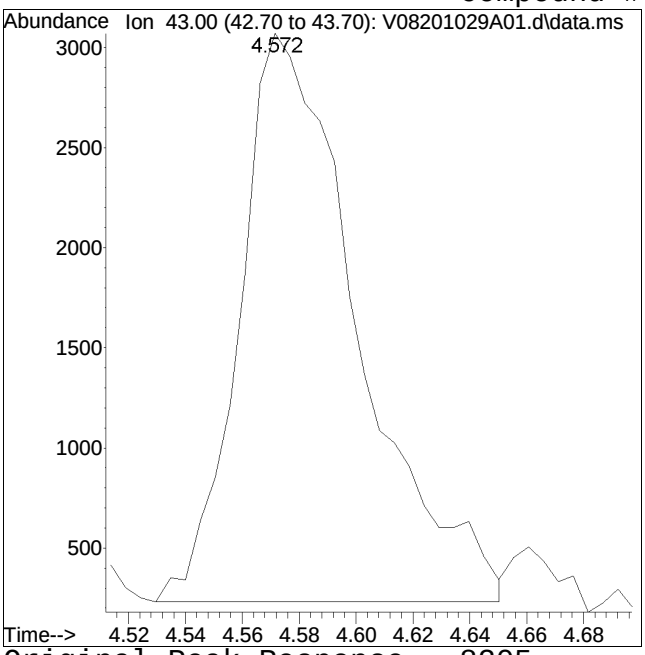
Manual Peak Response = 22898 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

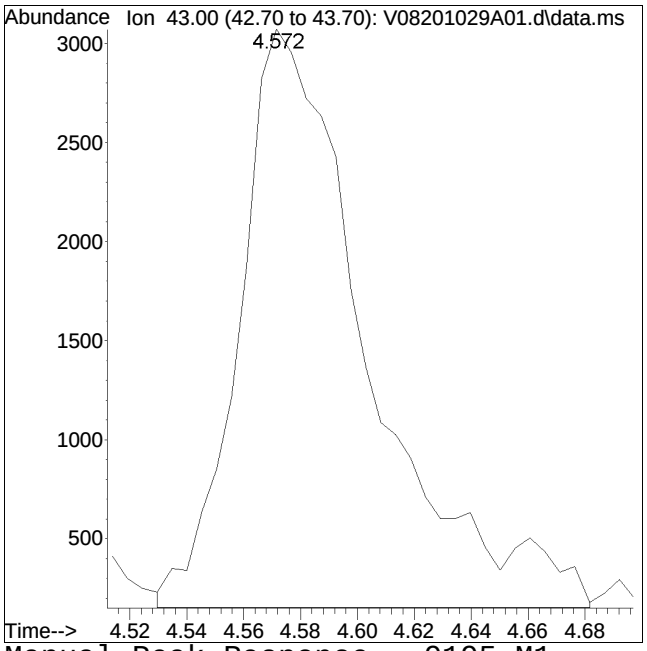
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201029A01.d Operator : VOA108:PD
Date Inj'd : 10/29/2020 8:10 am Instrument : VOA 108
Sample : WG1428085-2 Quant Date : 10/29/2020 8:25 am

Compound #39: 2-Butanone



Original Peak Response = 8205



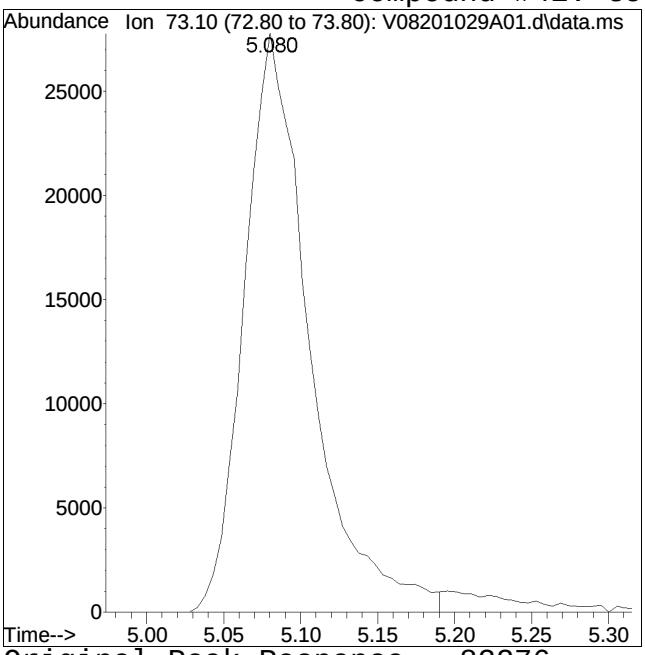
Manual Peak Response = 9195 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

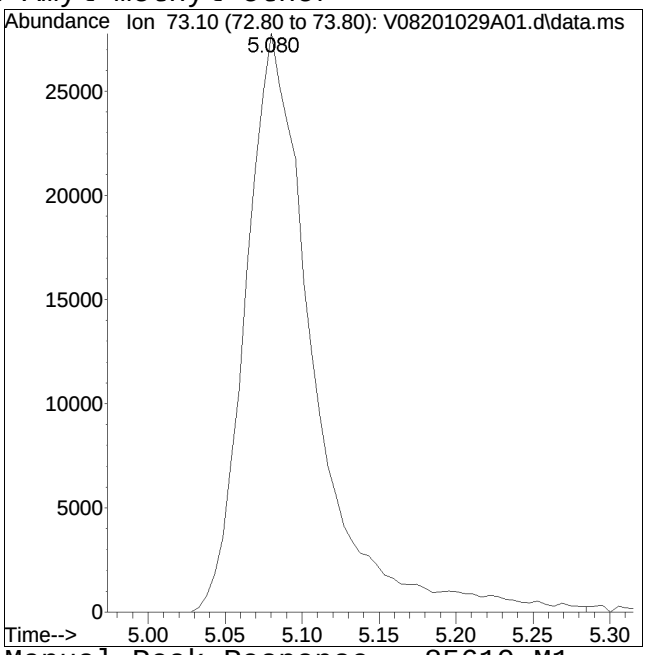
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201029A01.d Operator : VOA108:PD
Date Inj'd : 10/29/2020 8:10 am Instrument : VOA 108
Sample : WG1428085-2 Quant Date : 10/29/2020 8:25 am

Compound #42: tert-Amyl methyl ether



Original Peak Response = 82276



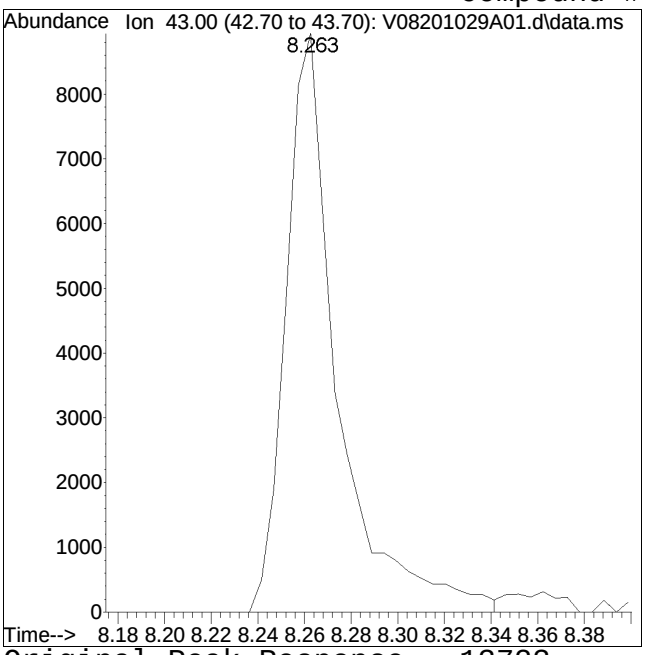
Manual Peak Response = 85610 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

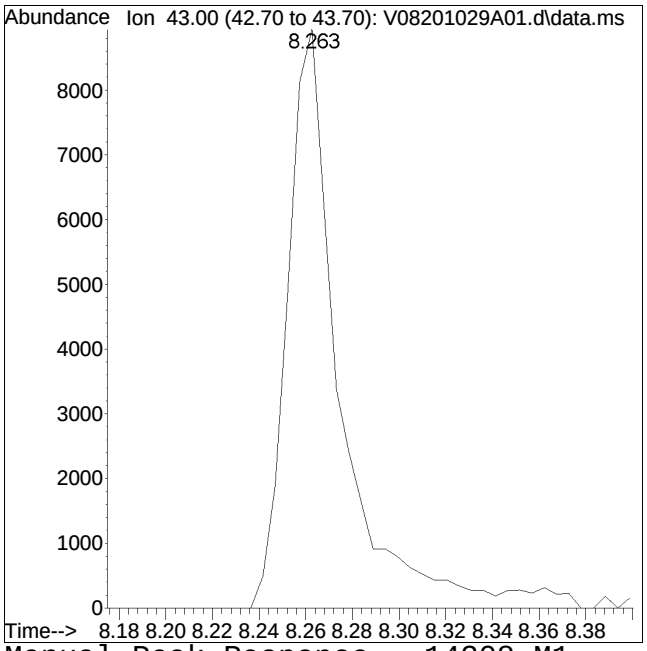
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201029A01.d Operator : VOA108:PD
Date Inj'd : 10/29/2020 8:10 am Instrument : VOA 108
Sample : WG1428085-2 Quant Date : 10/29/2020 8:25 am

Compound #72: 2-Hexanone



Original Peak Response = 13723



Manual Peak Response = 14208 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA105\2020\201029N\
Data File : V05201029N01.d
Acq On : 29 Oct 2020 5:16 pm
Operator : VOA105:LAC
Sample : WG1428497-2
Misc : WG1428497,ICAL17185
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 29 19:45:12 2020
Quant Method : I:\VOLATILES\VOA105\2020\201029N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	133	0.00
2	TP	Dichlorodifluoromethane	0.153	0.214	-39.9#	212#	0.00
3	TP	Chloromethane	0.244	0.270	-10.7	166	-0.01
4	TC	Vinyl chloride	0.242	0.284	-17.4	171	0.00
5	TP	Bromomethane	* 10.000	6.405	35.9#	100	0.00
6	TP	Chloroethane	* 10.000	9.985	0.2	144	0.00
7	TP	Trichlorofluoromethane	0.401	0.431	-7.5	157	0.00
8	TP	Ethyl ether	0.123	0.125	-1.6	154	0.00
10	TC	1,1-Dichloroethene	0.235	0.193	17.9	124	0.00
11	TP	Carbon disulfide	0.470	0.442	6.0	146	0.00
12	TP	Freon-113	0.226	0.205	9.3	136	0.00
13	TP	Iodomethane	0.304	0.054	82.2#	28#	0.00
14	TP	Acrolein	0.024	0.023#	4.2	158	-0.01
15	TP	Methylene chloride	0.221	0.218	1.4	150	-0.01
17	TP	Acetone	0.050	0.041#	18.0	129	-0.01
18	TP	trans-1,2-Dichloroethene	0.206	0.200	2.9	141	0.00
19	TP	Methyl acetate	0.125	0.108	13.6	137	-0.02
20	TP	Methyl tert-butyl ether	0.489	0.406	17.0	126	0.00
21	TP	tert-Butyl alcohol	0.015	0.014#	6.7	154	-0.03
22	TP	Diisopropyl ether	0.820	0.813	0.9	150	-0.02
23	TP	1,1-Dichloroethane	0.438	0.443	-1.1	150	0.00
24	TP	Halothane	0.168	0.159	5.4	141	0.00
25	TP	Acrylonitrile	0.054	0.050	7.4	147	-0.02
26	TP	Ethyl tert-butyl ether	0.703	0.612	12.9	135	-0.01
27	TP	Vinyl acetate	0.514	0.475	7.6	140	0.00
28	TP	cis-1,2-Dichloroethene	0.253	0.253	0.0	144	-0.02
29	TP	2,2-Dichloropropane	0.328	0.318	3.0	146	-0.01
30	TP	Bromochloromethane	0.110	0.104	5.5	138	-0.01
31	TP	Cyclohexane	0.429	0.441	-2.8	153	-0.02
32	TC	Chloroform	0.414	0.385	7.0	140	0.00
33	TP	Ethyl acetate	0.183	0.164	10.4	139	-0.02
34	TP	Carbon tetrachloride	0.317	0.283	10.7	134	0.00
35	TP	Tetrahydrofuran	0.048	0.048#	0.0	149	-0.02
36	S	Dibromofluoromethane	0.271	0.262	3.3	128	0.00
37	TP	1,1,1-Trichloroethane	0.383	0.344	10.2	133	-0.01
39	TP	2-Butanone	0.078	0.064#	17.9	125	-0.02
40	TP	1,1-Dichloropropene	0.314	0.300	4.5	140	0.00
41	TP	Benzene	0.853	0.852	0.1	148	-0.01
42	TP	tert-Amyl methyl ether	0.538	0.444	17.5	127	-0.02

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA105\2020\201029N\
Data File : V05201029N01.d
Acq On : 29 Oct 2020 5:16 pm
Operator : VOA105:LAC
Sample : WG1428497-2
Misc : WG1428497,ICAL17185
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 29 19:45:12 2020
Quant Method : I:\VOLATILES\VOA105\2020\201029N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43	S	1,2-Dichloroethane-d4	0.332	0.328	1.2	128	-0.02
44	TP	1,2-Dichloroethane	0.320	0.301	5.9	143	-0.01
47	TP	Methyl cyclohexane	0.403	0.382	5.2	146	-0.01
48	TP	Trichloroethene	0.250	0.231	7.6	141	-0.02
50	TP	Dibromomethane	0.129	0.118	8.5	138	-0.02
51	TC	1,2-Dichloropropane	0.236	0.238	-0.8	153	0.00
54	TP	Bromodichloromethane	0.304	0.274	9.9	138	0.00
57	TP	1,4-Dioxane	0.00154	0.00109#	29.2#	93	-0.02
58	TP	cis-1,3-Dichloropropene	0.348	0.317	8.9	141	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	136	-0.01
60	S	Toluene-d8	1.238	1.257	-1.5	136	-0.01
61	TC	Toluene	0.722	0.707	2.1	147	0.00
62	TP	4-Methyl-2-pentanone	0.080	0.069#	13.7	143	-0.01
63	TP	Tetrachloroethene	0.343	0.341	0.6	149	-0.01
65	TP	trans-1,3-Dichloropropene	* 10.000	8.012	19.9	136	-0.02
67	TP	Ethyl methacrylate	0.290	0.245	15.5	140	-0.02
68	TP	1,1,2-Trichloroethane	0.191	0.178	6.8	141	0.00
69	TP	Chlorodibromomethane	* 10.000	8.236	17.6	136	0.00
70	TP	1,3-Dichloropropane	0.260	0.347	-33.5#	201#	0.00
71	TP	1,2-Dibromoethane	0.230	0.203	11.7	134	-0.01
72	TP	2-Hexanone	0.147	0.125	15.0	134	-0.01
73	TP	Chlorobenzene	0.813	0.758	6.8	144	-0.02
74	TC	Ethylbenzene	1.439	1.354	5.9	145	-0.02
75	TP	1,1,1,2-Tetrachloroethane	0.296	0.269	9.1	141	0.00
76	TP	p/m Xylene	0.564	0.532	5.7	148	-0.02
77	TP	o Xylene	0.511	0.481	5.9	148	0.00
78	TP	Styrene	0.846	0.785	7.2	149	-0.02
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	129	-0.02
80	TP	Bromoform	* 10.000	8.615	13.8	136	0.00
82	TP	Isopropylbenzene	2.644	2.639	0.2	144	0.00
83	S	4-Bromofluorobenzene	0.895	0.910	-1.7	127	-0.02
84	TP	Bromobenzene	0.644	0.644	0.0	147	0.00
85	TP	n-Propylbenzene	3.139	3.107	1.0	143	-0.02
86	TP	1,4-Dichlorobutane	0.730	0.706	3.3	143	-0.01
87	TP	1,1,2,2-Tetrachloroethane	0.466	0.424	9.0	135	0.00
88	TP	4-Ethyltoluene	2.445	2.465	-0.8	144	-0.02
89	TP	2-Chlorotoluene	1.769	1.773	-0.2	145	-0.01

Data Path : I:\VOLATILES\VOA105\2020\201029N\
Data File : V05201029N01.d
Acq On : 29 Oct 2020 5:16 pm
Operator : VOA105:LAC
Sample : WG1428497-2
Misc : WG1428497,ICAL17185
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 29 19:45:12 2020
Quant Method : I:\VOLATILES\VOA105\2020\201029N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
90 TP	1,3,5-Trimethylbenzene	2.184	2.178	0.3	146	-0.01
91 TP	1,2,3-Trichloropropane	0.391	0.356	9.0	135	-0.02
92 TP	trans-1,4-Dichloro-2-butene	0.138	0.074	46.4#	87	0.00
93 TP	4-Chlorotoluene	1.832	1.810	1.2	144	-0.01
94 TP	tert-Butylbenzene	1.935	1.822	5.8	136	-0.01
97 TP	1,2,4-Trimethylbenzene	2.086	2.094	-0.4	145	-0.01
98 TP	sec-Butylbenzene	2.613	2.542	2.7	141	-0.01
99 TP	p-Isopropyltoluene	2.406	2.238	7.0	136	0.00
100 TP	1,3-Dichlorobenzene	1.179	1.164	1.3	144	-0.02
101 TP	1,4-Dichlorobenzene	1.187	1.186	0.1	147	-0.01
102 TP	p-Diethylbenzene	1.327	1.221	8.0	134	0.00
103 TP	n-Butylbenzene	2.073	1.905	8.1	136	0.00
104 TP	1,2-Dichlorobenzene	1.047	1.041	0.6	146	0.00
105 TP	1,2,4,5-Tetramethylbenzene	1.881	1.694	9.9	134	0.00
106 TP	1,2-Dibromo-3-chloropropane *	10.000	8.677	13.2	134	-0.02
107 TP	1,3,5-Trichlorobenzene	0.752	0.754	-0.3	147	0.00
108 TP	Hexachlorobutadiene	0.297	0.293	1.3	148	0.00
109 TP	1,2,4-Trichlorobenzene	0.645	0.584	9.5	135	-0.01
110 TP	Naphthalene	1.238	0.899	27.4#	110	0.00
111 TP	1,2,3-Trichlorobenzene	0.524	0.412	21.4#	119	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 7 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\201029N\
Data File : V05201029N01.d
Acq On : 29 Oct 2020 5:16 pm
Operator : VOA105:LAC
Sample : WG1428497-2
Misc : WG1428497,ICAL17185
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 29 19:45:12 2020
Quant Method : I:\VOLATILES\VOA105\2020\201029N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\201029N\V05201029N01.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.948	96	327904	10.000	ug/L	0.00
Standard Area 1 = 327904			Recovery = 100.00%			
59) Chlorobenzene-d5	9.461	117	254770	10.000	ug/L	-0.01
Standard Area 1 = 254770			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	12.174	152	130144	10.000	ug/L	-0.02
Standard Area 1 = 130144			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.146	113	85944	9.665	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.65%			
43) 1,2-Dichloroethane-d4	5.665	65	107627	9.875	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.75%			
60) Toluene-d8	7.621	98	320175	10.149	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.49%			
83) 4-Bromofluorobenzene	10.960	95	118457	10.166	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.66%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.625	85	70010	13.939	ug/L #	96
3) Chloromethane	1.821	50	88620	11.093	ug/L	97
4) Vinyl chloride	1.889	62	93210	11.728	ug/L	97
5) Bromomethane	2.192	94	26348	6.405	ug/L	100
6) Chloroethane	2.310	64	65089	9.985	ug/L	95
7) Trichlorofluoromethane	2.447	101	141361	10.739	ug/L	100
8) Ethyl ether	2.730	74	41089	10.172	ug/L #	39
10) 1,1-Dichloroethene	2.926	96	63196	8.193	ug/L	88
11) Carbon disulfide	2.955	76	145024	9.409	ug/L	100
12) Freon-113	2.955	101	67157	9.078	ug/L	90
13) Iodomethane	3.063	142	17712	1.779	ug/L	87
14) Acrolein	3.249	56	7469	9.658	ug/L	92
15) Methylene chloride	3.474	84	71501	9.878	ug/L #	66
17) Acetone	3.523	43	13412	8.210	ug/L	97
18) trans-1,2-Dichloroethene	3.620	96	65641	9.699	ug/L	89
19) Methyl acetate	3.630	43	35381M4	8.635	ug/L	
20) Methyl tert-butyl ether	3.708	73	133057	8.293	ug/L #	84
21) tert-Butyl alcohol	3.806	59	23301	48.752	ug/L	92
22) Diisopropyl ether	4.051	45	266432	9.905	ug/L #	91
23) 1,1-Dichloroethane	4.198	63	145242	10.105	ug/L	95
24) Halothane	4.246	117	52296	9.518	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\201029N\
Data File : V05201029N01.d
Acq On : 29 Oct 2020 5:16 pm
Operator : VOA105:LAC
Sample : WG1428497-2
Misc : WG1428497,ICAL17185
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 29 19:45:12 2020
Quant Method : I:\VOLATILES\VOA105\2020\201029N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\201029N\V05201029N01.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.256	53	16471	9.313	ug/L	#	89
26) Ethyl tert-butyl ether	4.403	59	200834	8.713	ug/L	#	78
27) Vinyl acetate	4.432	43	155871	9.256	ug/L	#	93
28) cis-1,2-Dichloroethene	4.706	96	83036	10.007	ug/L		92
29) 2,2-Dichloropropane	4.804	77	104187	9.676	ug/L	#	81
30) Bromochloromethane	4.902	128	34132	9.492	ug/L	#	70
31) Cyclohexane	4.882	56	144495	10.261	ug/L		69
32) Chloroform	4.970	83	126210	9.307	ug/L	#	93
33) Ethyl acetate	5.078	43	53704	8.971	ug/L	#	92
34) Carbon tetrachloride	5.097	117	92900	8.947	ug/L		98
35) Tetrahydrofuran	5.117	42	15806M1	10.067	ug/L		
37) 1,1,1-Trichloroethane	5.166	97	112807	8.971	ug/L		93
39) 2-Butanone	5.264	43	20853	8.180	ug/L	#	67
40) 1,1-Dichloropropene	5.283	75	98287	9.536	ug/L		96
41) Benzene	5.528	78	279533	9.998	ug/L	#	92
42) tert-Amyl methyl ether	5.626	73	145722	8.263	ug/L		97
44) 1,2-Dichloroethane	5.743	62	98799	9.430	ug/L		98
47) Methyl cyclohexane	6.095	83	125289	9.482	ug/L	#	71
48) Trichloroethene	6.115	95	75721	9.250	ug/L		97
50) Dibromomethane	6.564	93	38592	9.144	ug/L		95
51) 1,2-Dichloropropane	6.662	63	78016	10.077	ug/L	#	87
54) Bromodichloromethane	6.741	83	89754	9.006	ug/L		97
57) 1,4-Dioxane	6.946	88	17842	353.827	ug/L	#	79
58) cis-1,3-Dichloropropene	7.425	75	103953	9.105	ug/L	#	85
61) Toluene	7.679	92	180090	9.785	ug/L		100
62) 4-Methyl-2-pentanone	8.120	58	17668	8.664	ug/L	#	85
63) Tetrachloroethene	8.120	166	86904	9.953	ug/L		91
65) trans-1,3-Dichloropropene	8.169	75	88371	8.012	ug/L	#	80
67) Ethyl methacrylate	8.345	69	62386	8.444	ug/L		91
68) 1,1,2-Trichloroethane	8.354	83	45440	9.339	ug/L		96
69) Chlorodibromomethane	8.570	129	65341	8.236	ug/L		98
70) 1,3-Dichloropropane	8.677	76	88304	13.312	ug/L		98
71) 1,2-Dibromoethane	8.844	107	51650	8.832	ug/L		100
72) 2-Hexanone	9.128	43	31911	8.531	ug/L		94
73) Chlorobenzene	9.480	112	193107	9.322	ug/L		94
74) Ethylbenzene	9.510	91	345077	9.414	ug/L		94
75) 1,1,1,2-Tetrachloroethane	9.569	131	68487	9.095	ug/L		96
76) p/m Xylene	9.696	106	270974	18.859	ug/L		86
77) o Xylene	10.244	106	244988	18.814	ug/L		87
78) Styrene	10.313	104	400161	18.571	ug/L		89

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\201029N\
Data File : V05201029N01.d
Acq On : 29 Oct 2020 5:16 pm
Operator : VOA105:LAC
Sample : WG1428497-2
Misc : WG1428497,ICAL17185
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 29 19:45:12 2020
Quant Method : I:\VOLATILES\VOA105\2020\201029N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\201029N\V05201029N01.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
80)	Bromoform	10.352	173	35852	8.615	ug/L		96
82)	Isopropylbenzene	10.627	105	343476	9.980	ug/L		96
84)	Bromobenzene	11.077	156	83838	10.002	ug/L		99
85)	n-Propylbenzene	11.107	91	404364	9.897	ug/L		96
86)	1,4-Dichlorobutane	11.146	55	91842	9.672	ug/L		93
87)	1,1,2,2-Tetrachloroethane	11.214	83	55136	9.087	ug/L		98
88)	4-Ethyltoluene	11.234	105	320821	10.081	ug/L		96
89)	2-Chlorotoluene	11.283	91	230737M1	10.019	ug/L		
90)	1,3,5-Trimethylbenzene	11.342	105	283421	9.971	ug/L		95
91)	1,2,3-Trichloropropane	11.351	75	46326	9.104	ug/L		99
92)	trans-1,4-Dichloro-2-b...	11.410	53	9594	5.327	ug/L	#	88
93)	4-Chlorotoluene	11.469	91	235549	9.880	ug/L		92
94)	tert-Butylbenzene	11.675	119	237185	9.417	ug/L		94
97)	1,2,4-Trimethylbenzene	11.763	105	272546	10.037	ug/L		93
98)	sec-Butylbenzene	11.871	105	330846	9.727	ug/L		98
99)	p-Isopropyltoluene	12.027	119	291324	9.302	ug/L		95
100)	1,3-Dichlorobenzene	12.096	146	151427	9.865	ug/L		95
101)	1,4-Dichlorobenzene	12.194	146	154347	9.989	ug/L		96
102)	p-Diethylbenzene	12.400	119	158888	9.197	ug/L		97
103)	n-Butylbenzene	12.458	91	247939	9.192	ug/L		97
104)	1,2-Dichlorobenzene	12.615	146	135480	9.943	ug/L		95
105)	1,2,4,5-Tetramethylben...	13.193	119	220523	9.011	ug/L		94
106)	1,2-Dibromo-3-chloropr...	13.399	155	7297	8.677	ug/L		91
107)	1,3,5-Trichlorobenzene	13.428	180	98065	10.024	ug/L		96
108)	Hexachlorobutadiene	13.996	225	38172	9.880	ug/L		99
109)	1,2,4-Trichlorobenzene	14.026	180	76066	9.058	ug/L		99
110)	Naphthalene	14.320	128	117064	7.266	ug/L		100
111)	1,2,3-Trichlorobenzene	14.486	180	53680	7.875	ug/L		98

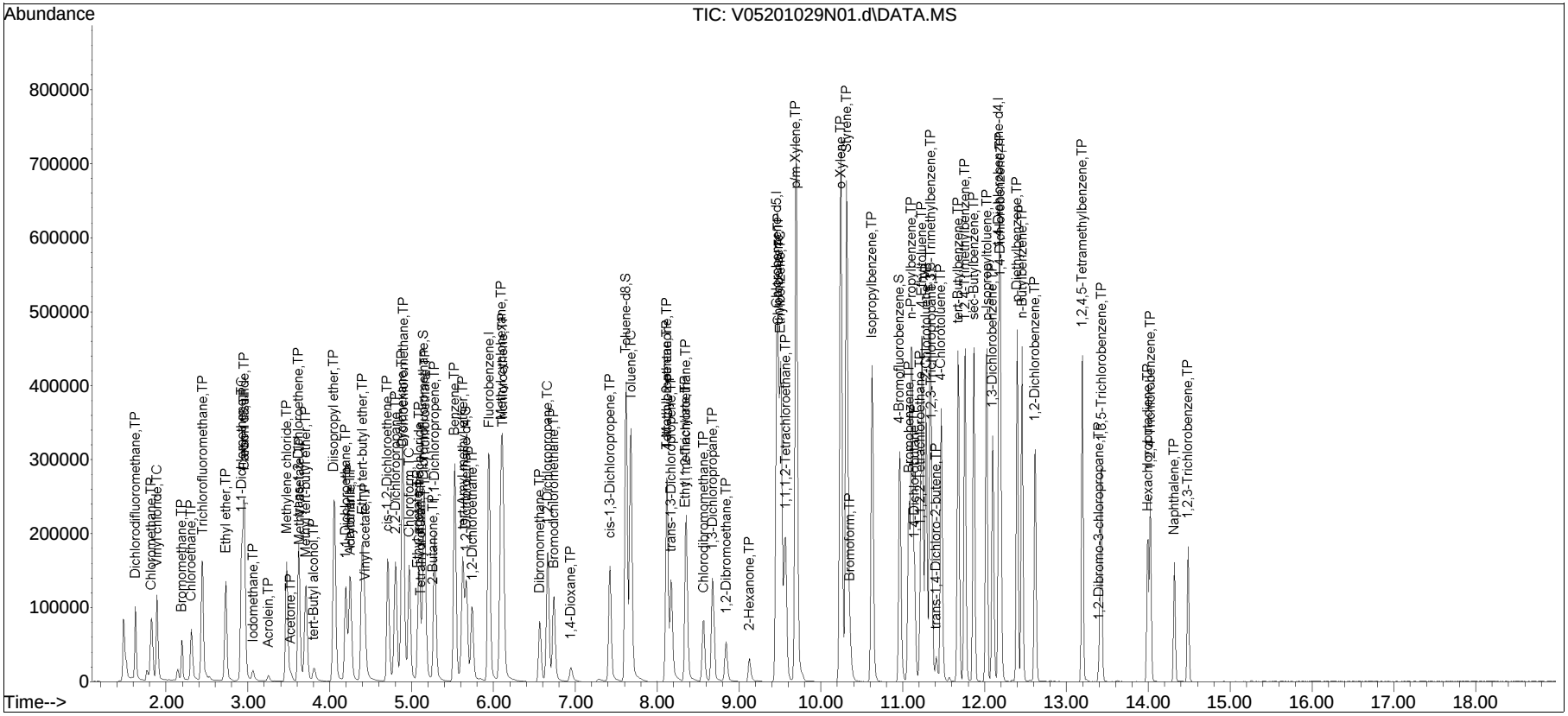
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\201029N\
Data File : V05201029N01.d
Acq On : 29 Oct 2020 5:16 pm
Operator : VOA105:LAC
Sample : WG1428497-2
Misc : WG1428497,ICAL17185
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 29 19:45:12 2020
Quant Method : I:\VOLATILES\VOA105\2020\201029N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVEV05201029N01.d•

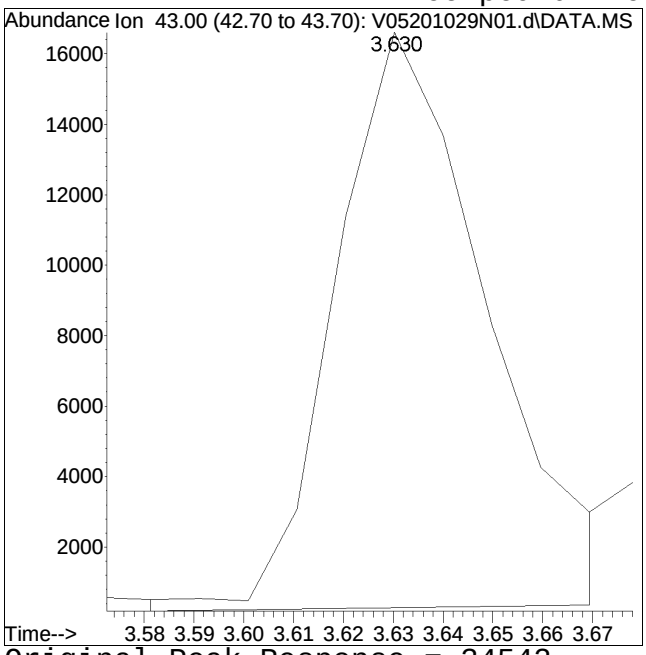


Manual Integration Report

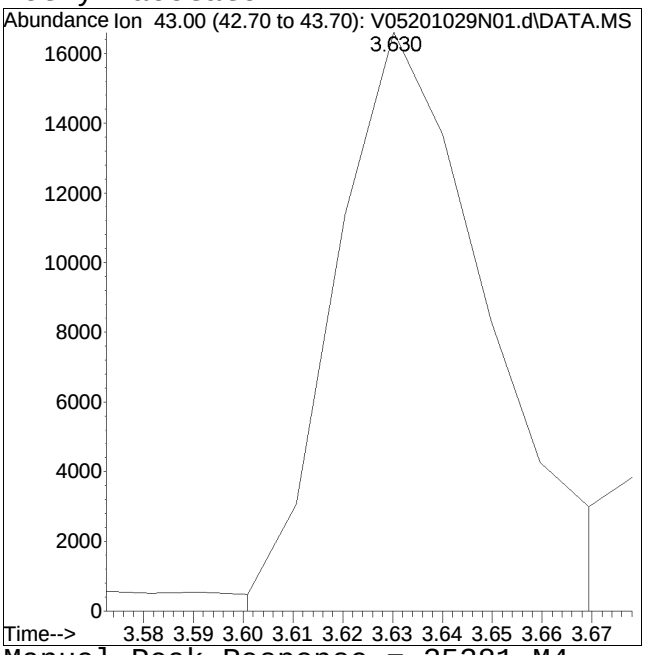
Data Path : I:\VOLATILES\VOA105\2020\2Q
Data File : V05201029N01.d
Date Inj'd : 10/29/2020 5:16 pm
Sample : WG1428497-2

Method : V105_200930N_8260.m
Operator : VOA105:LAC
Instrument : VOA 105
Quant Date : 10/29/2020 5:41 pm

Compound #19: Methyl acetate



Original Peak Response = 34542



Manual Peak Response = 35381 M4

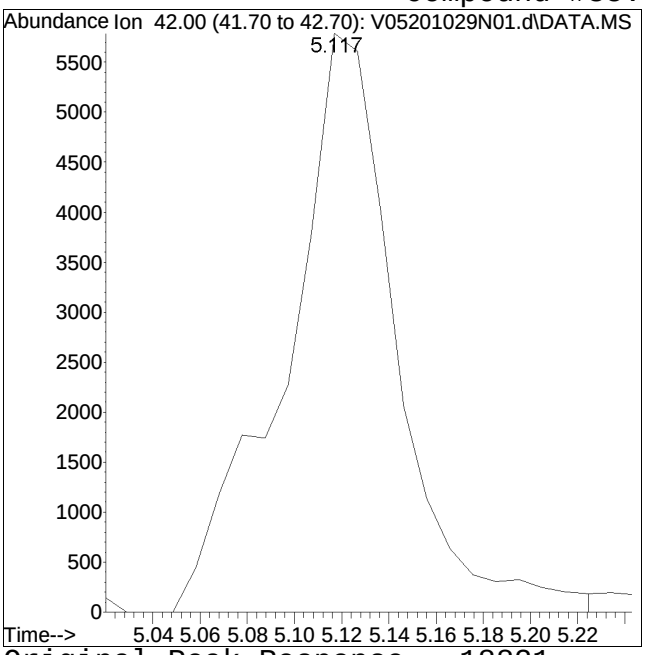
M4 = Poor automated baseline construction.

Manual Integration Report

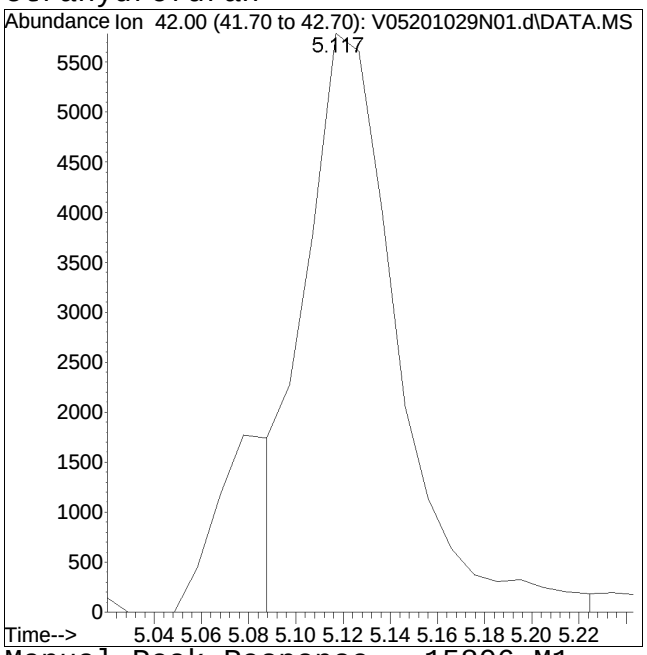
Data Path : I:\VOLATILES\VOA105\2020\2Q
Data File : V05201029N01.d
Date Inj'd : 10/29/2020 5:16 pm
Sample : WG1428497-2

Method : V105_200930N_8260.m
Operator : VOA105:LAC
Instrument : VOA 105
Quant Date : 10/29/2020 5:41 pm

Compound #35: Tetrahydrofuran



Original Peak Response = 18821



Manual Peak Response = 15806 M1

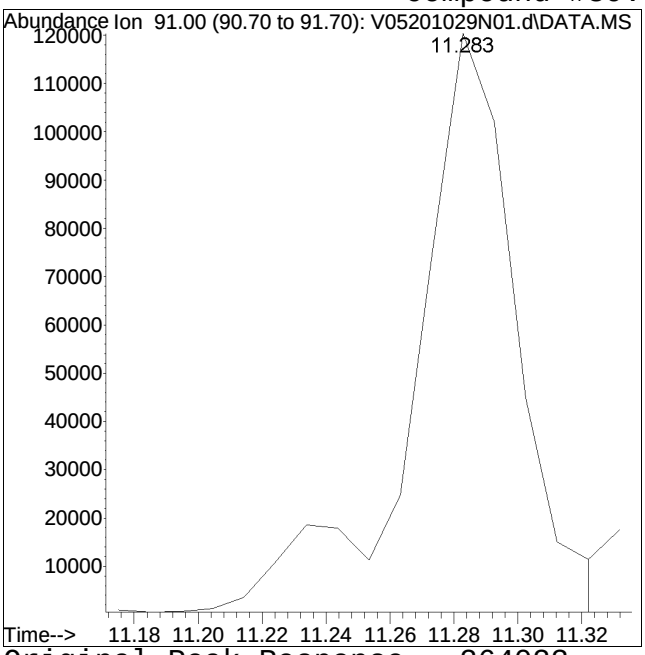
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

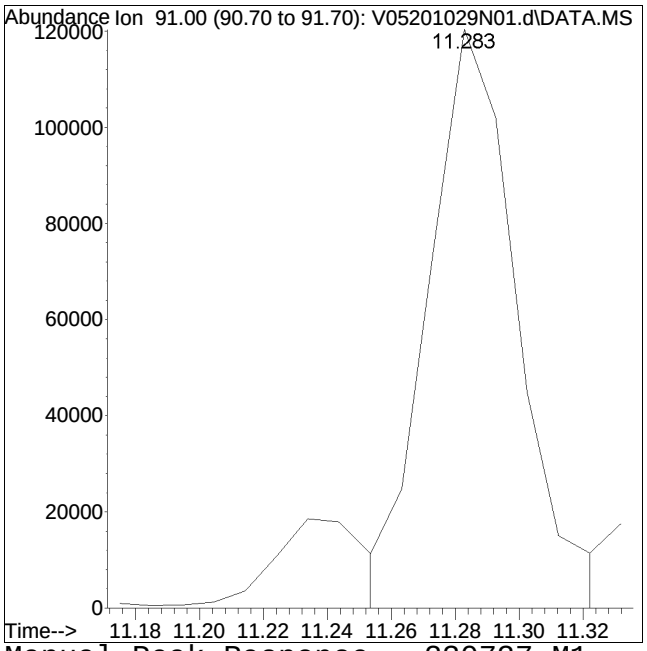
Data Path : I:\VOLATILES\VOA105\2020\2Q
Data File : V05201029N01.d
Date Inj'd : 10/29/2020 5:16 pm
Sample : WG1428497-2

Method : V105_200930N_8260.m
Operator : VOA105:LAC
Instrument : VOA 105
Quant Date : 10/29/2020 5:41 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 264023



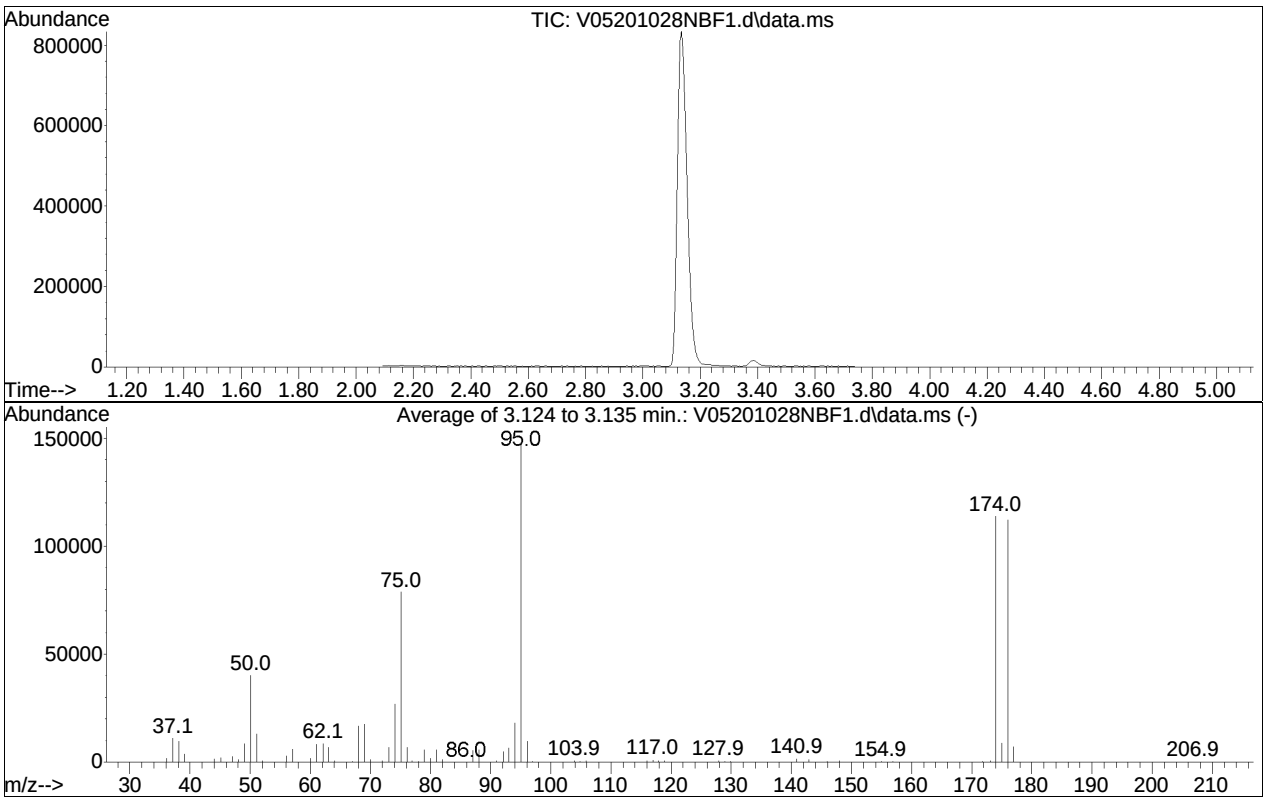
Manual Peak Response = 230737 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Data Path : I:\VOLATILES\VOA105\2020\201028N\
Data File : V05201028NBF1.d
Acq On : 28 Oct 2020 5:37 pm
Operator : VOA105:MKS
Sample : WG1428076-1
Misc : WG1428076
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA105\2020\201028N\V105_200930N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Thu Oct 01 13:02:53 2020



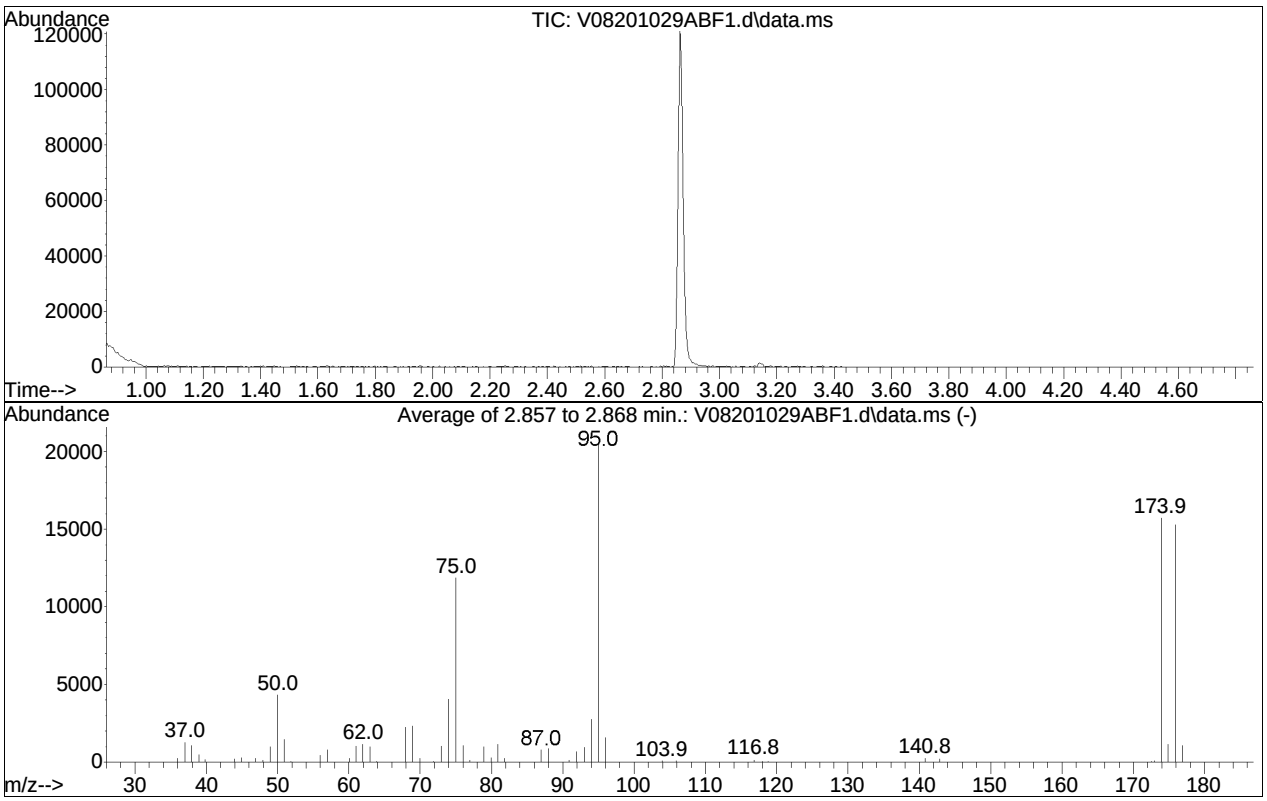
AutoFind: Scans 190, 191, 192; Background Corrected with Scan 182

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	27.3	40360	PASS
75	95	30	60	53.4	78997	PASS
95	95	100	100	100.0	147949	PASS
96	95	5	9	6.6	9742	PASS
173	174	0.00	2	0.5	620	PASS
174	95	50	100	77.0	113947	PASS
175	174	5	9	7.8	8848	PASS
176	174	95	101	98.4	112067	PASS
177	176	5	9	6.4	7139	PASS

Data Path : I:\VOLATILES\VOA108\2020\201029A\
Data File : V08201029ABF1.d
Acq On : 29 Oct 2020 7:47 am
Operator : VOA108:PD
Sample : WG1428085-1
Misc : WG1428085
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA108\2020\201029A\V108_201013A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Oct 14 11:43:29 2020



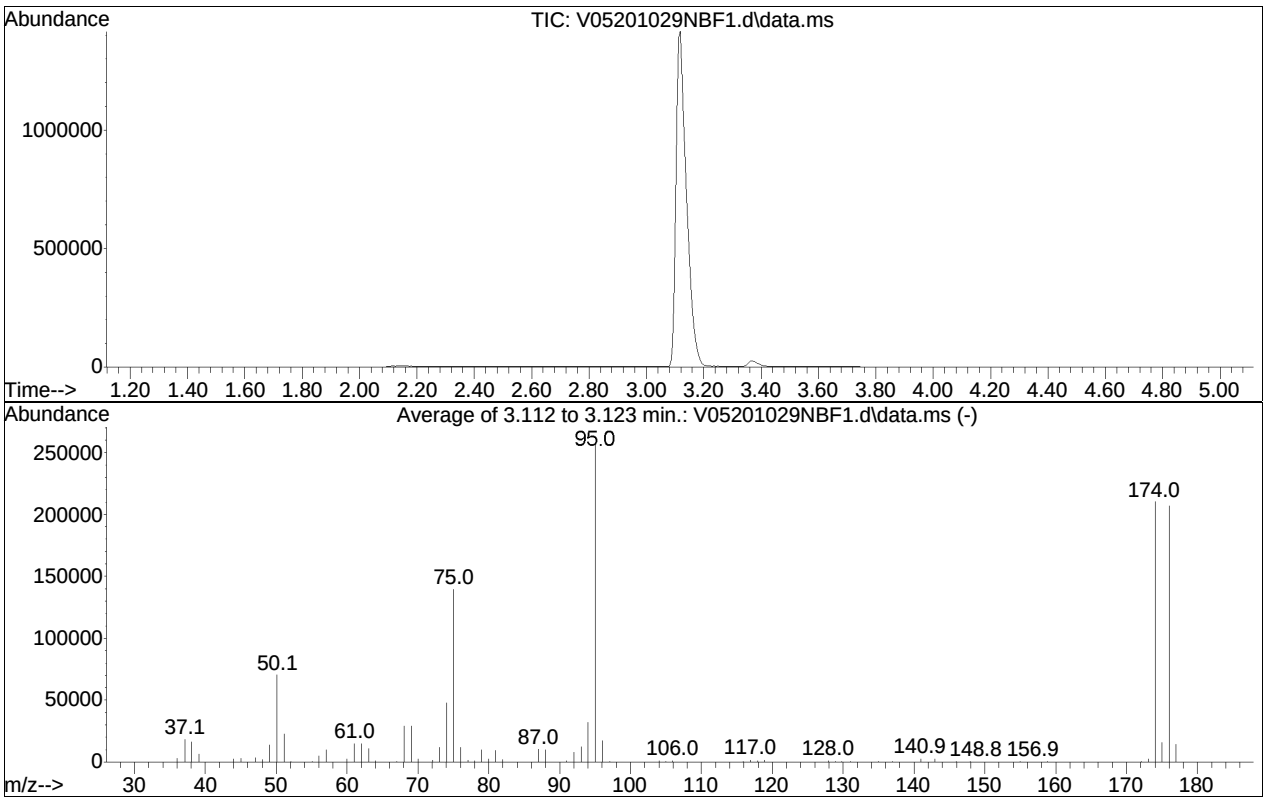
AutoFind: Scans 433, 434, 435; Background Corrected with Scan 427

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.0	4314	PASS
75	95	30	60	57.7	11863	PASS
95	95	100	100	100.0	20573	PASS
96	95	5	9	7.7	1587	PASS
173	174	0.00	2	0.6	102	PASS
174	95	50	100	76.5	15740	PASS
175	174	5	9	7.4	1158	PASS
176	174	95	101	97.2	15294	PASS
177	176	5	9	6.9	1050	PASS

Data Path : I:\VOLATILES\VOA105\2020\201029N\
Data File : V05201029NBF1.d
Acq On : 29 Oct 2020 4:56 pm
Operator : VOA105:LAC
Sample : WG1428497-1
Misc : WG1428497
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA105\2020\201029N\V105_200930N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Thu Oct 01 13:02:53 2020



AutoFind: Scans 188, 189, 190; Background Corrected with Scan 179

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	27.2	70245	PASS
75	95	30	60	54.0	139435	PASS
95	95	100	100	100.0	257984	PASS
96	95	5	9	6.6	17072	PASS
173	174	0.00	2	1.2	2592	PASS
174	95	50	100	81.6	210517	PASS
175	174	5	9	7.6	16043	PASS
176	174	95	101	98.3	207040	PASS
177	176	5	9	7.0	14419	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\201028N\
Data File : V05201028N04.d
Acq On : 28 Oct 2020 7:07 pm
Operator : VOA105:TMS
Sample : WG1428076-5,31,10,10
Misc : WG1428076,ICAL17185
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 28 19:40:59 2020
Quant Method : I:\VOLATILES\VOA105\2020\201028N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\201028N\V05201028N01.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.948	96	326371	10.000	ug/L	0.00
Standard Area 1 = 321491			Recovery = 101.52%			
59) Chlorobenzene-d5	9.461	117	249544	10.000	ug/L	-0.01
Standard Area 1 = 246441			Recovery = 101.26%			
79) 1,4-Dichlorobenzene-d4	12.184	152	122090	10.000	ug/L	0.00
Standard Area 1 = 126798			Recovery = 96.29%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.156	113	83475	9.431	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.31%			
43) 1,2-Dichloroethane-d4	5.675	65	103120	9.506	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.06%			
60) Toluene-d8	7.621	98	311324	10.075	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.75%			
83) 4-Bromofluorobenzene	10.969	95	113380	10.372	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.72%			

Target Compounds				Qvalue
4) Vinyl chloride	0.000	0	N.D.	
10) 1,1-Dichloroethene	0.000	0	N.D.	
15) Methylene chloride	0.000	0	N.D.	
17) Acetone	0.000	0	N.D.	d
18) trans-1,2-Dichloroethene	0.000	0	N.D.	
20) Methyl tert-butyl ether	0.000	0	N.D.	
23) 1,1-Dichloroethane	0.000	0	N.D.	
28) cis-1,2-Dichloroethene	0.000	0	N.D.	
32) Chloroform	0.000	0	N.D.	
34) Carbon tetrachloride	0.000	0	N.D.	
37) 1,1,1-Trichloroethane	0.000	0	N.D.	
39) 2-Butanone	0.000	0	N.D.	
41) Benzene	0.000	0	N.D.	
44) 1,2-Dichloroethane	0.000	0	N.D.	
48) Trichloroethene	0.000	0	N.D.	d
57) 1,4-Dioxane	0.000	0	N.D.	
61) Toluene	0.000	0	N.D.	
63) Tetrachloroethene	0.000	0	N.D.	
73) Chlorobenzene	0.000	0	N.D.	
74) Ethylbenzene	0.000	0	N.D.	d

Data Path : I:\VOLATILES\VOA105\2020\201028N\
Data File : V05201028N04.d
Acq On : 28 Oct 2020 7:07 pm
Operator : VOA105:TMS
Sample : WG1428076-5,31,10,10
Misc : WG1428076,ICAL17185
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 28 19:40:59 2020
Quant Method : I:\VOLATILES\VOA105\2020\201028N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\201028N\V05201028N01.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	0.000		0	N.D.		
85) n-Propylbenzene	0.000		0	N.D.	d	
90) 1,3,5-Trimethylbenzene	0.000		0	N.D.	d	
94) tert-Butylbenzene	11.685	119	273	N.D.		
97) 1,2,4-Trimethylbenzene	0.000		0	N.D.	d	
98) sec-Butylbenzene	0.000		0	N.D.	d	
100) 1,3-Dichlorobenzene	0.000		0	N.D.	d	
101) 1,4-Dichlorobenzene	12.194	146	278	N.D.		
103) n-Butylbenzene	12.468	91	1238	N.D.		
104) 1,2-Dichlorobenzene	12.635	146	232	N.D.		

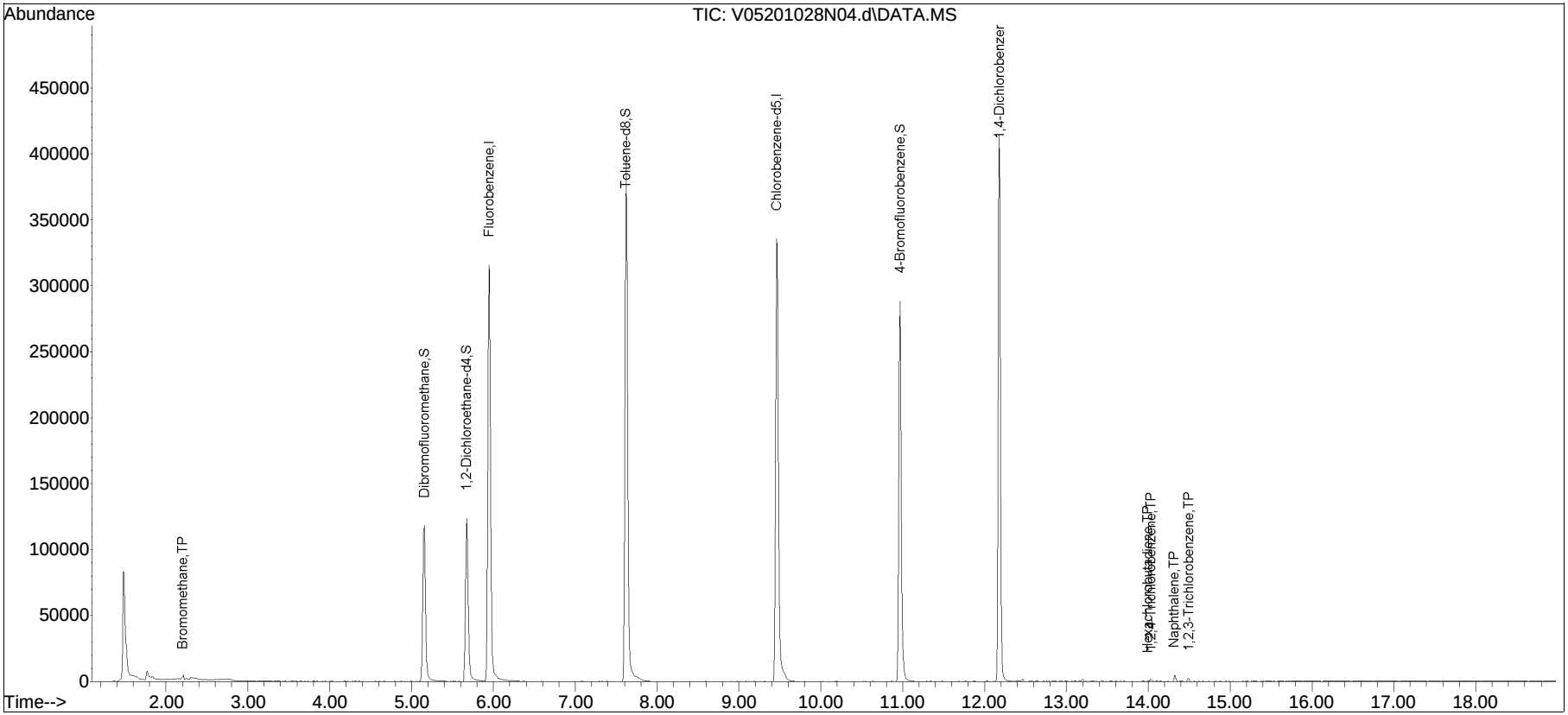
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\201028N\
Data File : V05201028N04.d
Acq On : 28 Oct 2020 7:07 pm
Operator : VOA105:TMS
Sample : WG1428076-5,31,10,10
Misc : WG1428076,ICAL17185
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 28 19:40:59 2020
Quant Method : I:\VOLATILES\VOA105\2020\201028N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA105\2020\2	QMethod	: V105_200930N_8260.m
Data File	: V05201028N04.d	Operator	: VOA105:TMS
Date Inj'd	: 10/28/2020 7:07 pm	Instrument	: VOA 105
Sample	: WG1428076-5,31,10,10	Quant Date	: 10/28/2020 7:38 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201029A\
Data File : V08201029A05.d
Acq On : 29 Oct 2020 9:38 am
Operator : VOA108:PD
Sample : WG1428085-5,31,10,10
Misc : WG1428085,ICAL17242
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 29 10:05:00 2020
Quant Method : I:\VOLATILES\VOA108\2020\201029A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201029A\V08201029A01.d
Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.384	96	143107	10.000	ug/L	0.00
Standard Area 1 = 152206			Recovery = 94.02%			
59) Chlorobenzene-d5	8.420	117	98582	10.000	ug/L	0.00
Standard Area 1 = 101386			Recovery = 97.23%			
79) 1,4-Dichlorobenzene-d4	9.919	152	45141	10.000	ug/L	0.00
Standard Area 1 = 48766			Recovery = 92.57%			
System Monitoring Compounds						
36) Dibromofluoromethane	4.388	113	33903	9.447	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.47%			
43) 1,2-Dichloroethane-d4	5.038	65	45117	10.788	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.88%			
60) Toluene-d8	7.099	98	128080	9.825	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.25%			
83) 4-Bromofluorobenzene	9.248	95	45066	10.416	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.16%			
Target Compounds						Qvalue
4) Vinyl chloride	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
39) 2-Butanone	0.000		0	N.D.		
41) Benzene	0.000		0	N.D.		
44) 1,2-Dichloroethane	0.000		0	N.D.		
48) Trichloroethene	0.000		0	N.D.	d	
57) 1,4-Dioxane	0.000		0	N.D.		
61) Toluene	7.146	92	130	N.D.		
63) Tetrachloroethene	0.000		0	N.D.		
73) Chlorobenzene	8.436	112	180	N.D.		
74) Ethylbenzene	8.483	91	454	N.D.		

Data Path : I:\VOLATILES\VOA108\2020\201029A\
Data File : V08201029A05.d
Acq On : 29 Oct 2020 9:38 am
Operator : VOA108:PD
Sample : WG1428085-5,31,10,10
Misc : WG1428085,ICAL17242
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 29 10:05:00 2020
Quant Method : I:\VOLATILES\VOA108\2020\201029A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201029A\V08201029A01.d
Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
76)	p/m Xylene	8.593	106	390	N.D.			
77)	o Xylene	8.876	106	166	N.D.			
85)	n-Propylbenzene	9.348	91	768	N.D.			
90)	1,3,5-Trimethylbenzene	9.469	105	300	N.D.			
94)	tert-Butylbenzene	9.652	119	56	N.D.			
97)	1,2,4-Trimethylbenzene	9.699	105	390	N.D.			
98)	sec-Butylbenzene	9.757	105	665	N.D.			
100)	1,3-Dichlorobenzene	9.878	146	371	N.D.			
101)	1,4-Dichlorobenzene	9.930	146	518	0.076	ug/L	#	9
103)	n-Butylbenzene	10.103	91	628	N.D.			
104)	1,2-Dichlorobenzene	10.176	146	282	N.D.			

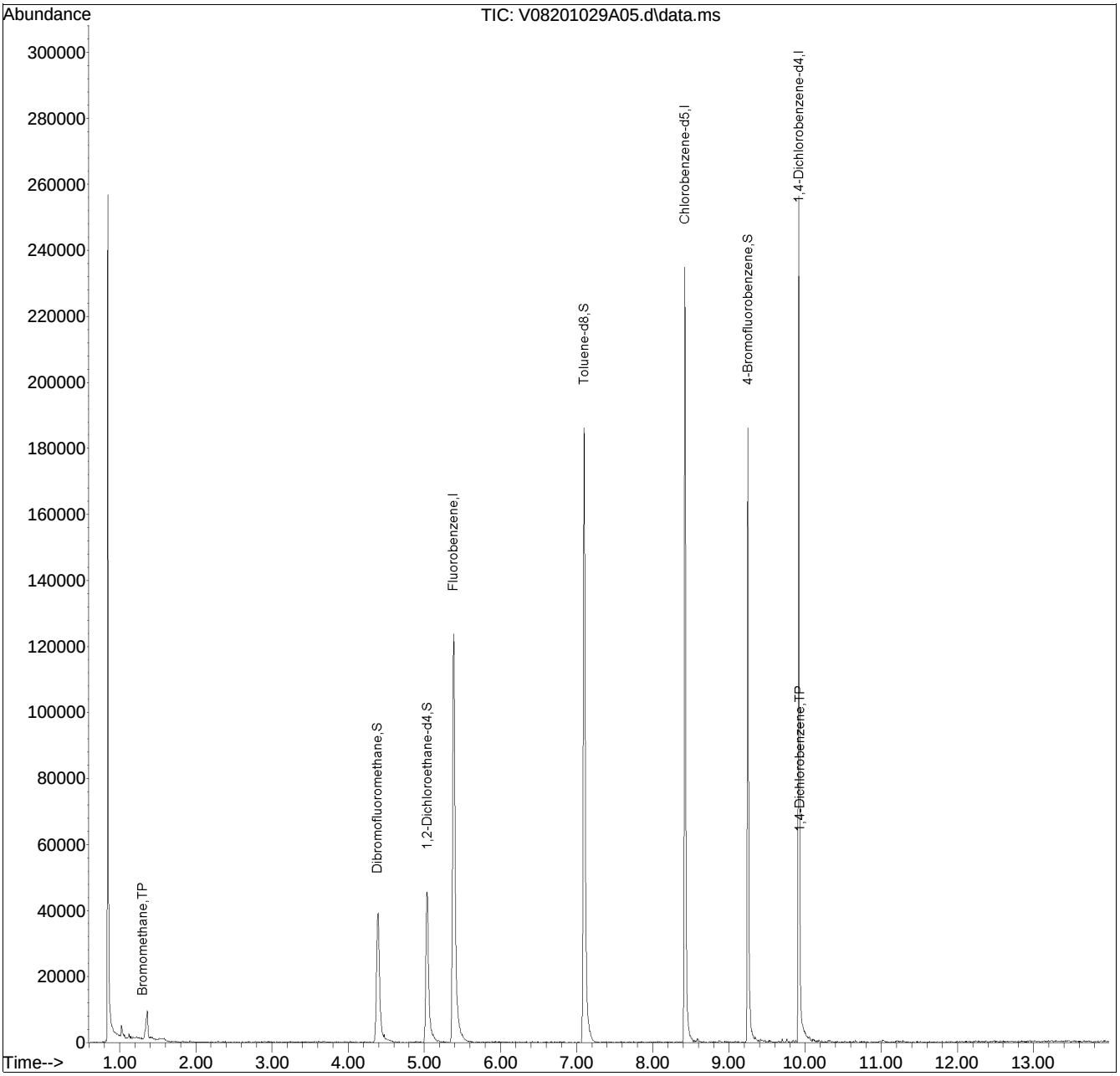
(#) = qualifier out of range (m) = manual integration (+) = signals summed

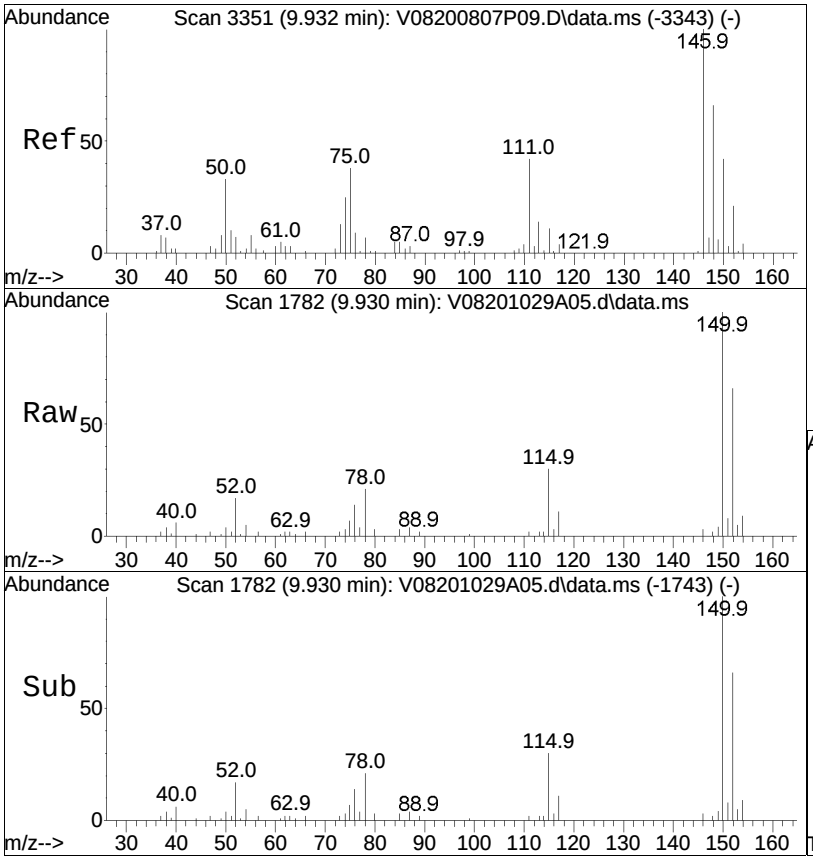
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201029A\
Data File : V08201029A05.d
Acq On : 29 Oct 2020 9:38 am
Operator : VOA108:PD
Sample : WG1428085-5,31,10,10
Misc : WG1428085,ICAL17242
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 29 10:05:00 2020
Quant Method : I:\VOLATILES\VOA108\2020\201029A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
Response via : Initial Calibration

Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve1.d•

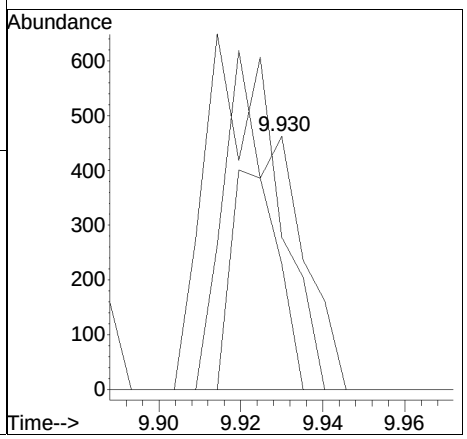




#101
1,4-Dichlorobenzene
Concen: 0.08 ug/L
RT: 9.930 min Scan# 1782
Delta R.T. 0.005 min
Lab File: V08201029A05.d
Acq: 29 Oct 2020 9:38 am

Tgt Ion:146 Resp: 518

Ion	Ratio	Lower	Upper
146	100		
111	147.7	32.3	48.5#
148	91.1	49.9	74.9#



Manual Integration Report

Data Path	: I:\VOLATILES\VOA108\2020\2	QMethod	: V108_201013A_8260.m
Data File	: V08201029A05.d	Operator	: VOA108:PD
Date Inj'd	: 10/29/2020 9:38 am	Instrument	: VOA 108
Sample	: WG1428085-5,31,10,10	Quant Date	: 10/29/2020 10:04 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\201029N\
Data File : V05201029N05.d
Acq On : 29 Oct 2020 6:49 pm
Operator : VOA105:LAC
Sample : WG1428497-5,31,10,10
Misc : WG1428497,ICAL17185
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 29 19:48:00 2020
Quant Method : I:\VOLATILES\VOA105\2020\201029N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\201029N\V05201029N01.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.948	96	322943	10.000	ug/L	0.00
Standard Area 1 = 327904			Recovery = 98.49%			
59) Chlorobenzene-d5	9.461	117	249352	10.000	ug/L	-0.01
Standard Area 1 = 254770			Recovery = 97.87%			
79) 1,4-Dichlorobenzene-d4	12.174	152	121646	10.000	ug/L	-0.02
Standard Area 1 = 130144			Recovery = 93.47%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.156	113	82238	9.390	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.90%			
43) 1,2-Dichloroethane-d4	5.675	65	100707	9.382	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.82%			
60) Toluene-d8	7.621	98	309647	10.028	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.28%			
83) 4-Bromofluorobenzene	10.960	95	112699	10.348	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.48%			
Target Compounds						Qvalue
4) Vinyl chloride	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
39) 2-Butanone	0.000		0	N.D.		
41) Benzene	0.000		0	N.D.		
44) 1,2-Dichloroethane	0.000		0	N.D.		
48) Trichloroethene	0.000		0	N.D.		
57) 1,4-Dioxane	0.000		0	N.D.		
61) Toluene	0.000		0	N.D.		
63) Tetrachloroethene	0.000		0	N.D.		
73) Chlorobenzene	0.000		0	N.D.		
74) Ethylbenzene	9.529	91	112	N.D.		

Data Path : I:\VOLATILES\VOA105\2020\201029N\
Data File : V05201029N05.d
Acq On : 29 Oct 2020 6:49 pm
Operator : VOA105:LAC
Sample : WG1428497-5,31,10,10
Misc : WG1428497,ICAL17185
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 29 19:48:00 2020
Quant Method : I:\VOLATILES\VOA105\2020\201029N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\201029N\V05201029N01.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
85) n-Propylbenzene	11.126	91	416		N.D.	
90) 1,3,5-Trimethylbenzene	11.342	105	223		N.D.	
94) tert-Butylbenzene	11.675	119	220		N.D.	
97) 1,2,4-Trimethylbenzene	11.773	105	401		N.D.	
98) sec-Butylbenzene	11.881	105	629		N.D.	
100) 1,3-Dichlorobenzene	12.116	146	113		N.D.	
101) 1,4-Dichlorobenzene	12.194	146	420		N.D.	
103) n-Butylbenzene	12.468	91	1306		N.D.	
104) 1,2-Dichlorobenzene	12.625	146	388		N.D.	

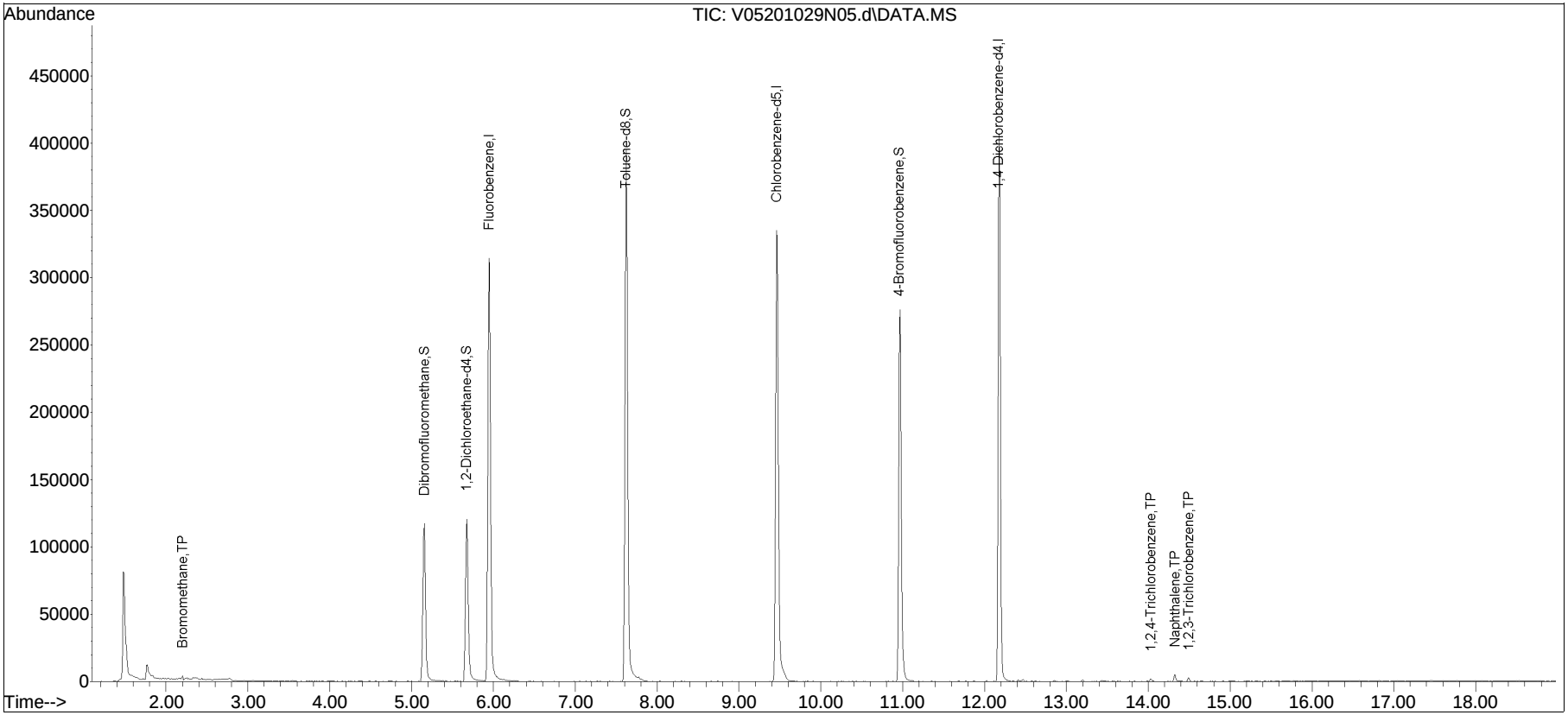
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\201029N\
Data File : V05201029N05.d
Acq On : 29 Oct 2020 6:49 pm
Operator : VOA105:LAC
Sample : WG1428497-5,31,10,10
Misc : WG1428497,ICAL17185
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 29 19:48:00 2020
Quant Method : I:\VOLATILES\VOA105\2020\201029N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVEV05201029N01.d•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA105\2020\2	QMethod	: V105_200930N_8260.m
Data File	: V05201029N05.d	Operator	: VOA105:LAC
Date Inj'd	: 10/29/2020 6:49 pm	Instrument	: VOA 105
Sample	: WG1428497-5,31,10,10	Quant Date	: 10/29/2020 7:46 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\201028N\
Data File : V05201028N01.d
Acq On : 28 Oct 2020 5:58 pm
Operator : VOA105:TMS
Sample : WG1428076-3,31,10,10
Misc : WG1428076,ICAL17185
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 28 18:28:02 2020
Quant Method : I:\VOLATILES\VOA105\2020\201028N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\201028N\V05201028N01.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.948	96	321491	10.000	ug/L	0.00
Standard Area 1 = 321491			Recovery = 100.00%			
59) Chlorobenzene-d5	9.461	117	246441	10.000	ug/L	-0.01
Standard Area 1 = 246441			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	12.174	152	126798	10.000	ug/L	-0.02
Standard Area 1 = 126798			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.146	113	83754	9.607	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.07%			
43) 1,2-Dichloroethane-d4	5.665	65	103049	9.644	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.44%			
60) Toluene-d8	7.621	98	312500	10.240	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.40%			
83) 4-Bromofluorobenzene	10.960	95	115580	10.181	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.81%			
Target Compounds						Qvalue
4) Vinyl chloride	1.889	62	92132	11.823	ug/L	97
10) 1,1-Dichloroethene	2.926	96	62851	8.311	ug/L	91
15) Methylene chloride	3.474	84	65286	9.200	ug/L #	63
17) Acetone	3.523	43	12643	7.893	ug/L	95
18) trans-1,2-Dichloroethene	3.620	96	63369	9.550	ug/L	90
20) Methyl tert-butyl ether	3.708	73	129502	8.233	ug/L #	85
23) 1,1-Dichloroethane	4.197	63	136169	9.663	ug/L	96
28) cis-1,2-Dichloroethene	4.706	96	76758	9.435	ug/L	92
32) Chloroform	4.970	83	117656	8.849	ug/L #	91
34) Carbon tetrachloride	5.097	117	90381	8.878	ug/L	98
37) 1,1,1-Trichloroethane	5.166	97	109661	8.895	ug/L	93
39) 2-Butanone	5.264	43	19387	7.757	ug/L #	68
41) Benzene	5.528	78	264686	9.656	ug/L #	92
44) 1,2-Dichloroethane	5.743	62	93067	9.060	ug/L	99
48) Trichloroethene	6.115	95	72385	9.019	ug/L	96
57) 1,4-Dioxane	6.946	88	19758	399.639	ug/L #	81
61) Toluene	7.679	92	169930	9.545	ug/L	100
63) Tetrachloroethene	8.120	166	83654	9.904	ug/L	90
73) Chlorobenzene	9.480	112	182848	9.125	ug/L	93
74) Ethylbenzene	9.510	91	326751	9.215	ug/L	94

Data Path : I:\VOLATILES\VOA105\2020\201028N\
Data File : V05201028N01.d
Acq On : 28 Oct 2020 5:58 pm
Operator : VOA105:TMS
Sample : WG1428076-3,31,10,10
Misc : WG1428076,ICAL17185
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 28 18:28:02 2020
Quant Method : I:\VOLATILES\VOA105\2020\201028N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\201028N\V05201028N01.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	p/m Xylene	9.696	106	255223	18.363	ug/L	86
77)	o Xylene	10.244	106	232567	18.463	ug/L	87
85)	n-Propylbenzene	11.106	91	381324	9.579	ug/L	97
90)	1,3,5-Trimethylbenzene	11.332	105	265010	9.570	ug/L	93
94)	tert-Butylbenzene	11.675	119	226411	9.226	ug/L	94
97)	1,2,4-Trimethylbenzene	11.763	105	253714	9.590	ug/L	93
98)	sec-Butylbenzene	11.871	105	312781	9.439	ug/L	98
100)	1,3-Dichlorobenzene	12.096	146	144345	9.652	ug/L	96
101)	1,4-Dichlorobenzene	12.194	146	146061	9.702	ug/L	96
103)	n-Butylbenzene	12.458	91	237126	9.023	ug/L	98
104)	1,2-Dichlorobenzene	12.615	146	128577	9.685	ug/L	95

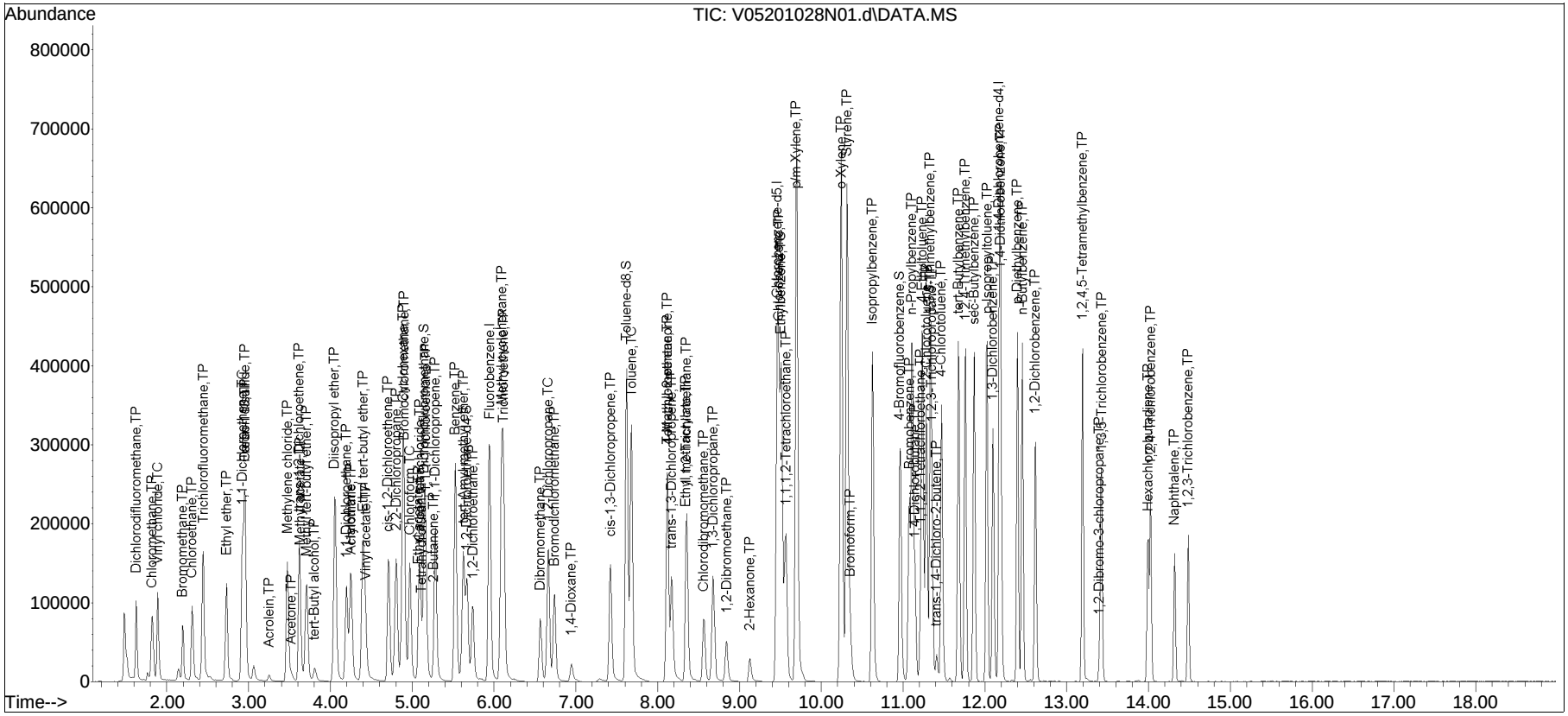
(#) = qualifier out of range (m) = manual integration (+) = signals summed

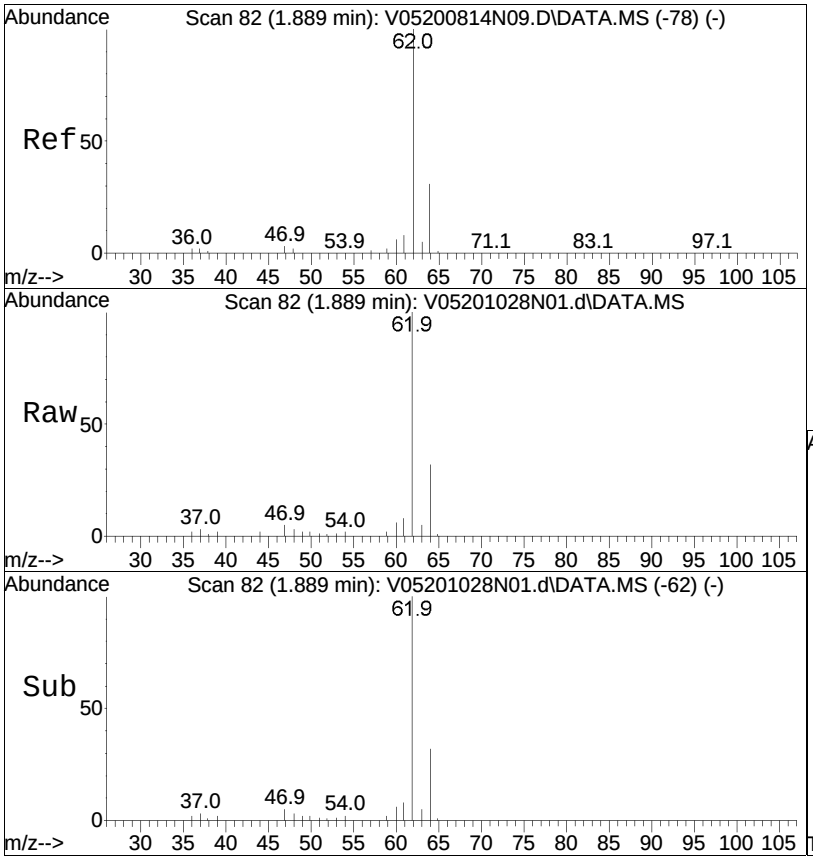
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\201028N\
Data File : V05201028N01.d
Acq On : 28 Oct 2020 5:58 pm
Operator : VOA105:TMS
Sample : WG1428076-3,31,10,10
Misc : WG1428076,ICAL17185
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 28 18:28:02 2020
Quant Method : I:\VOLATILES\VOA105\2020\201028N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane•

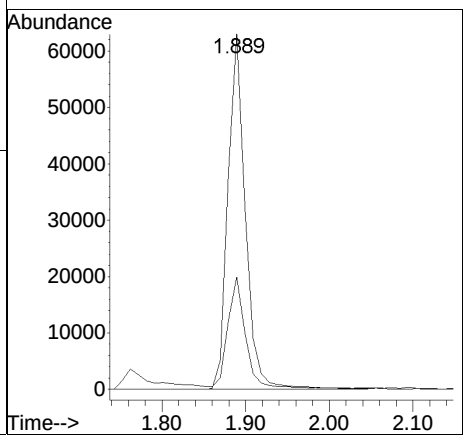


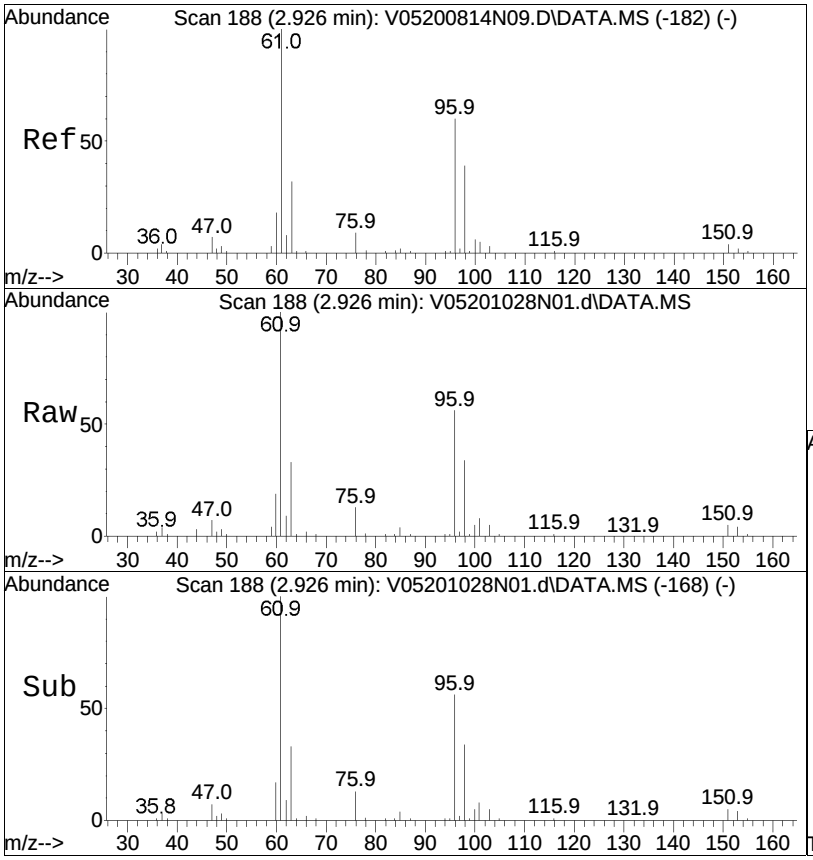


#4
Vinyl chloride
Concen: 11.82 ug/L
RT: 1.889 min Scan# 82
Delta R.T. 0.000 min
Lab File: V05201028N01.d
Acq: 28 Oct 2020 5:58 pm

Tgt Ion: 62 Resp: 92132

Ion	Ratio	Lower	Upper
62	100		
64	32.0	13.5	53.5

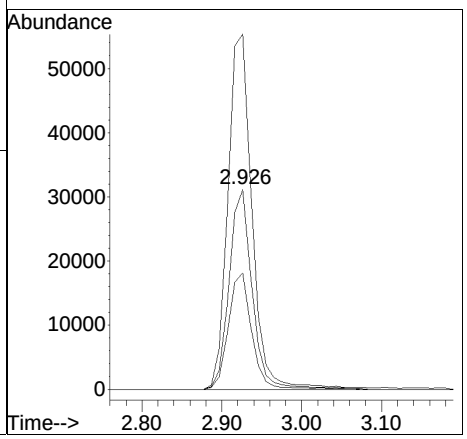


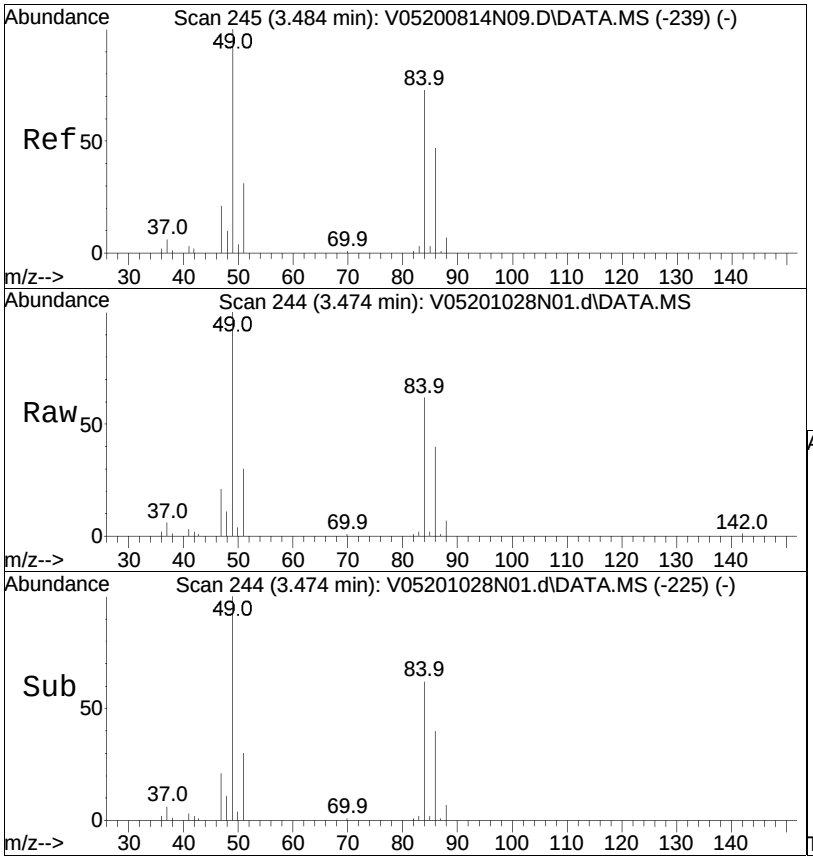


#10
1,1-Dichloroethene
Concen: 8.31 ug/L
RT: 2.926 min Scan# 188
Delta R.T. -0.000 min
Lab File: V05201028N01.d
Acq: 28 Oct 2020 5:58 pm

Tgt Ion: 96 Resp: 62851

Ion	Ratio	Lower	Upper
96	100		
61	185.8	136.7	205.1
63	59.2	45.0	67.6

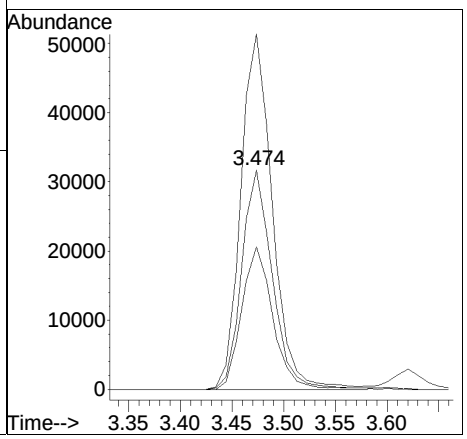


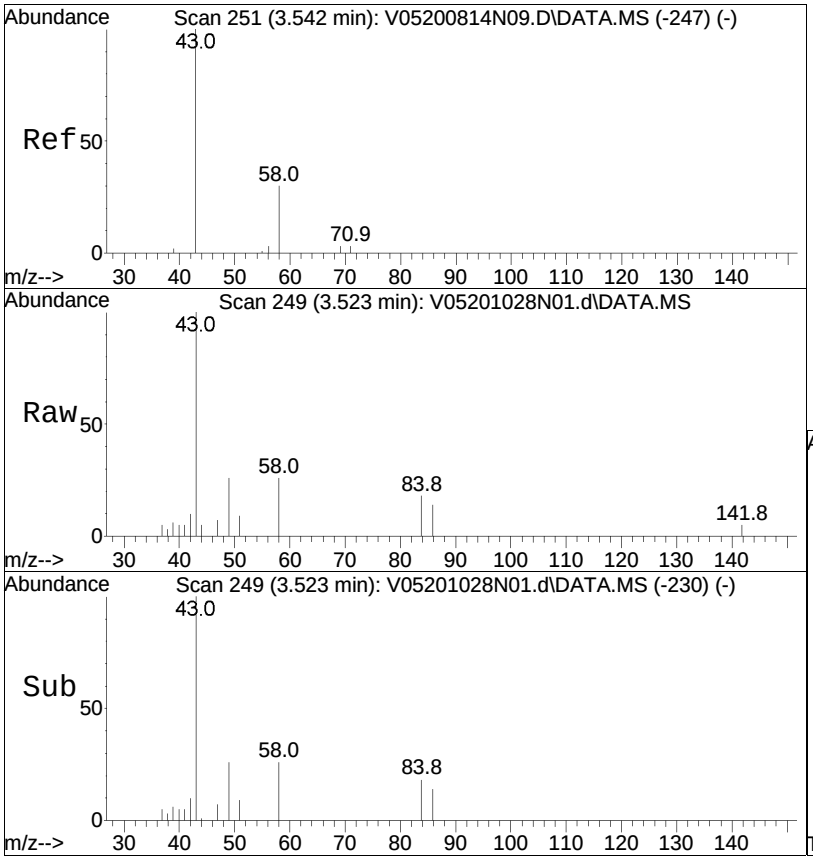


#15
Methylene chloride
Concen: 9.20 ug/L
RT: 3.474 min Scan# 244
Delta R.T. -0.010 min
Lab File: V05201028N01.d
Acq: 28 Oct 2020 5:58 pm

Tgt Ion: 84 Resp: 65286

Ion	Ratio	Lower	Upper
84	100		
86	66.4	42.1	87.5
49	166.4	69.3	143.9#

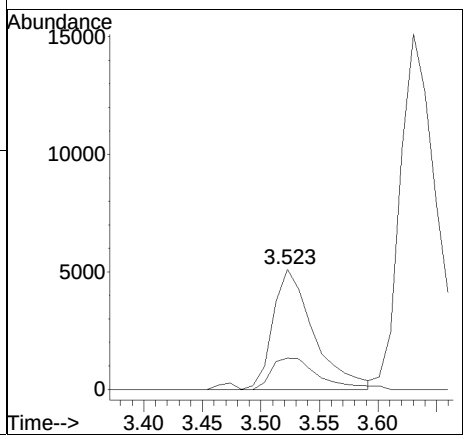


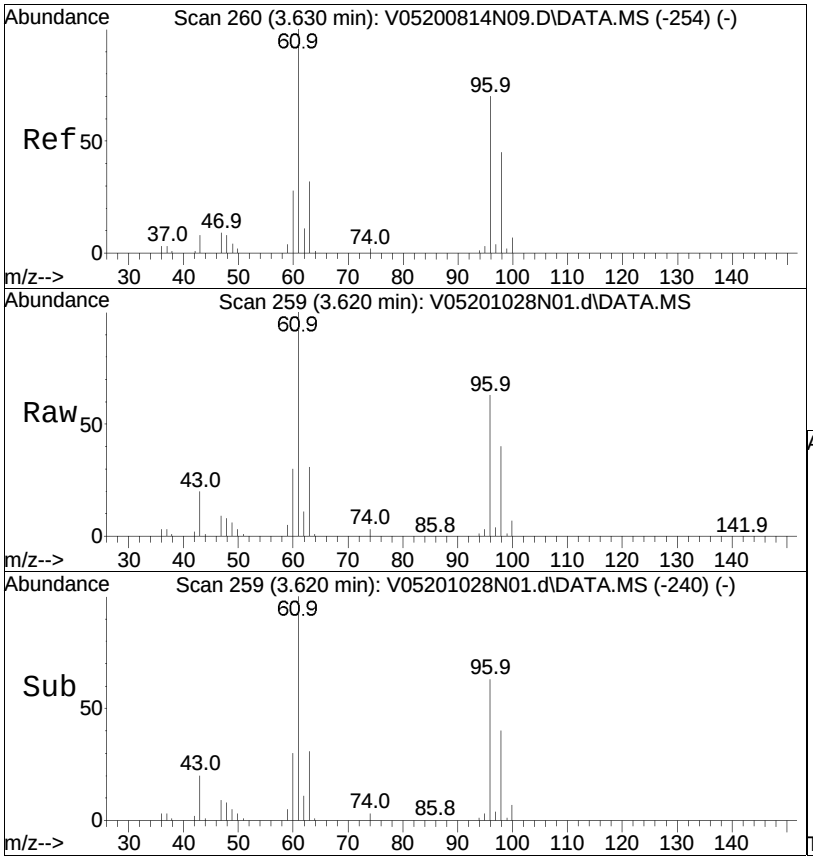


#17
Acetone
Concen: 7.89 ug/L
RT: 3.523 min Scan# 249
Delta R.T. -0.010 min
Lab File: V05201028N01.d
Acq: 28 Oct 2020 5:58 pm

Tgt Ion: 43 Resp: 12643

Ion	Ratio	Lower	Upper
43	100		
58	30.0	22.0	33.0

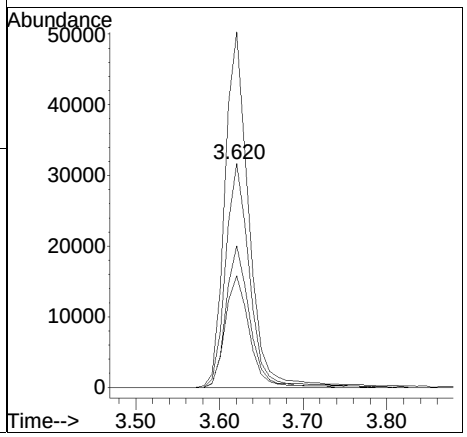


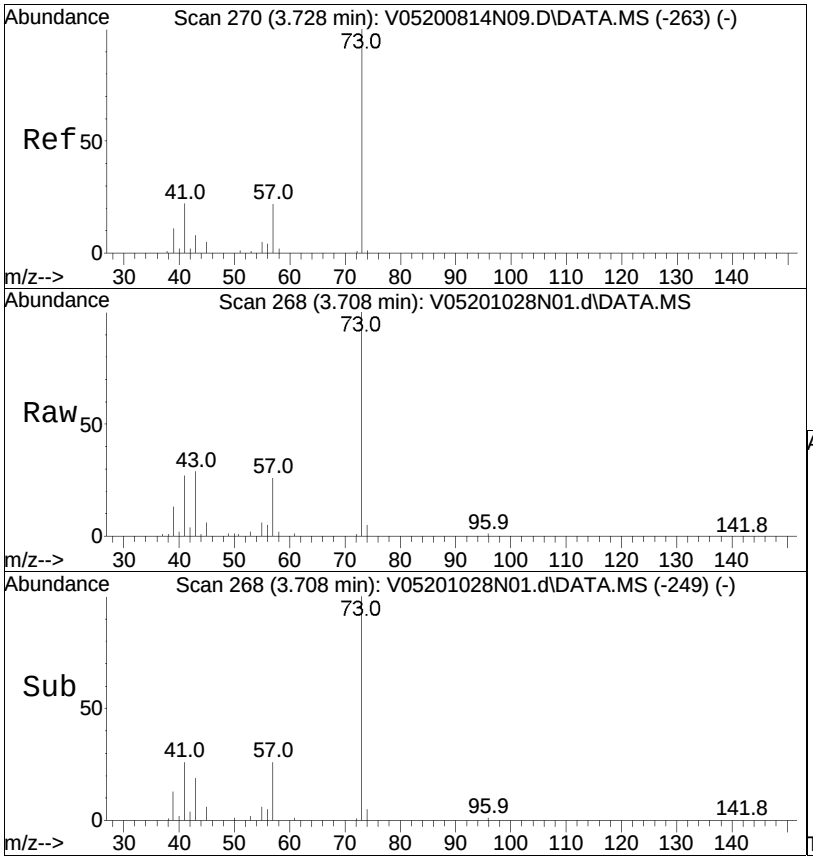


#18
trans-1,2-Dichloroethene
Concen: 9.55 ug/L
RT: 3.620 min Scan# 259
Delta R.T. -0.010 min
Lab File: V05201028N01.d
Acq: 28 Oct 2020 5:58 pm

Tgt Ion: 96 Resp: 63369

Ion	Ratio	Lower	Upper
96	100		
61	158.7	91.7	190.5
98	61.8	41.1	85.5
63	50.3	29.4	61.0

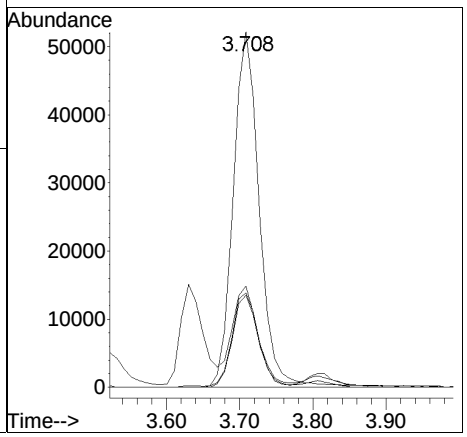


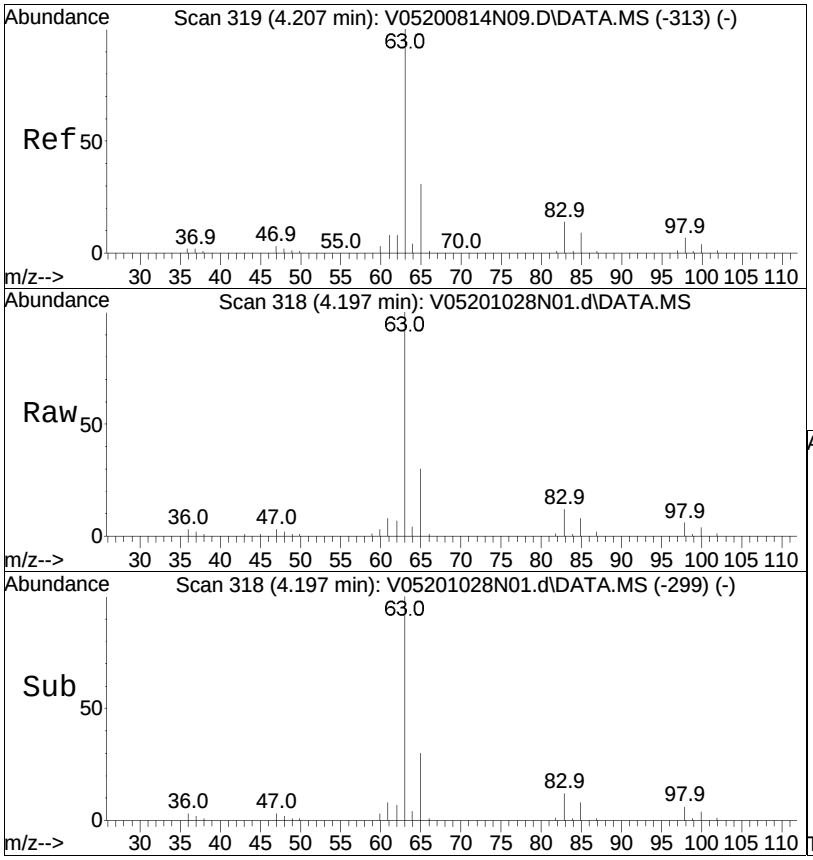


#20
Methyl tert-butyl ether
Concen: 8.23 ug/L
RT: 3.708 min Scan# 268
Delta R.T. -0.010 min
Lab File: V05201028N01.d
Acq: 28 Oct 2020 5:58 pm

Tgt Ion: 73 Resp: 129502

Ion	Ratio	Lower	Upper
73	100		
57	25.6	11.8	24.6#
43	27.5	13.5	27.9
41	26.5	13.3	27.5

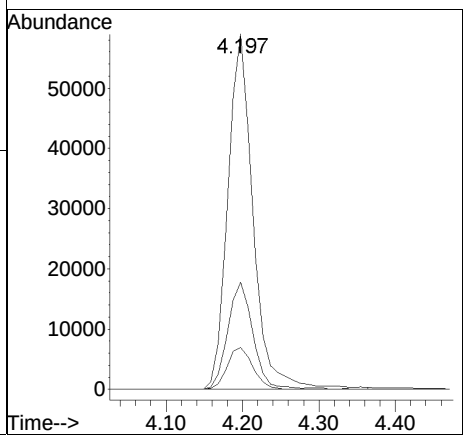


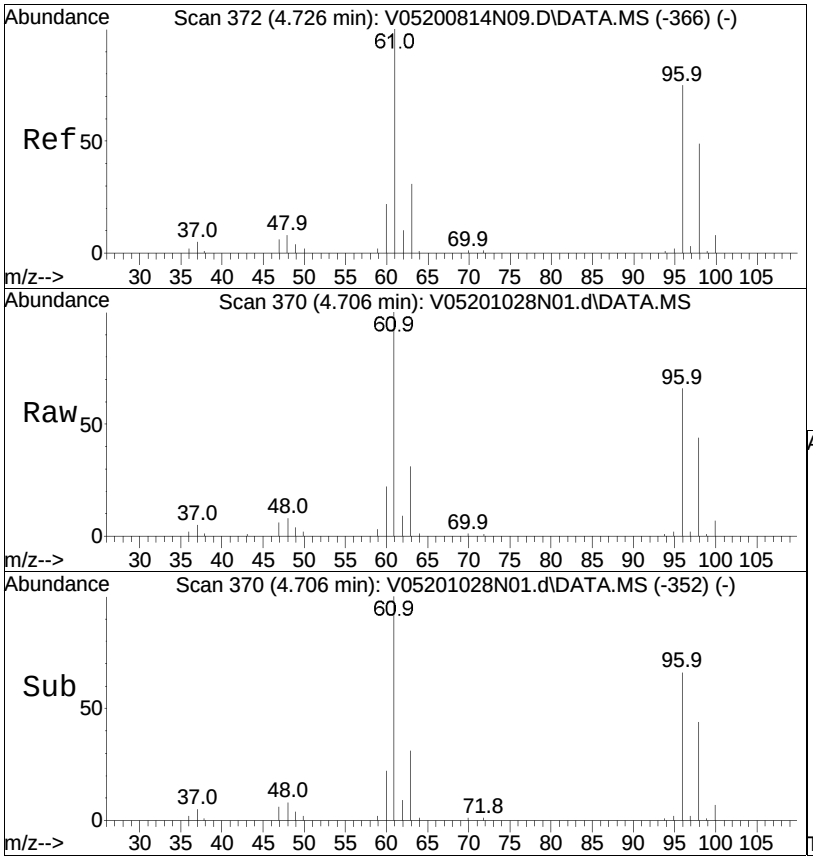


#23
1,1-Dichloroethane
Concen: 9.66 ug/L
RT: 4.197 min Scan# 318
Delta R.T. -0.010 min
Lab File: V05201028N01.d
Acq: 28 Oct 2020 5:58 pm

Tgt Ion: 63 Resp: 136169

Ion	Ratio	Lower	Upper
63	100		
65	30.1	11.9	51.9
83	11.9	0.0	34.2

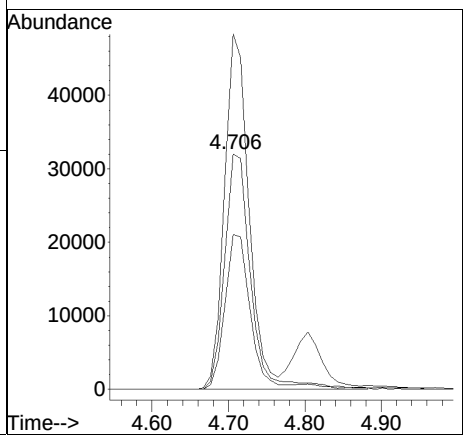


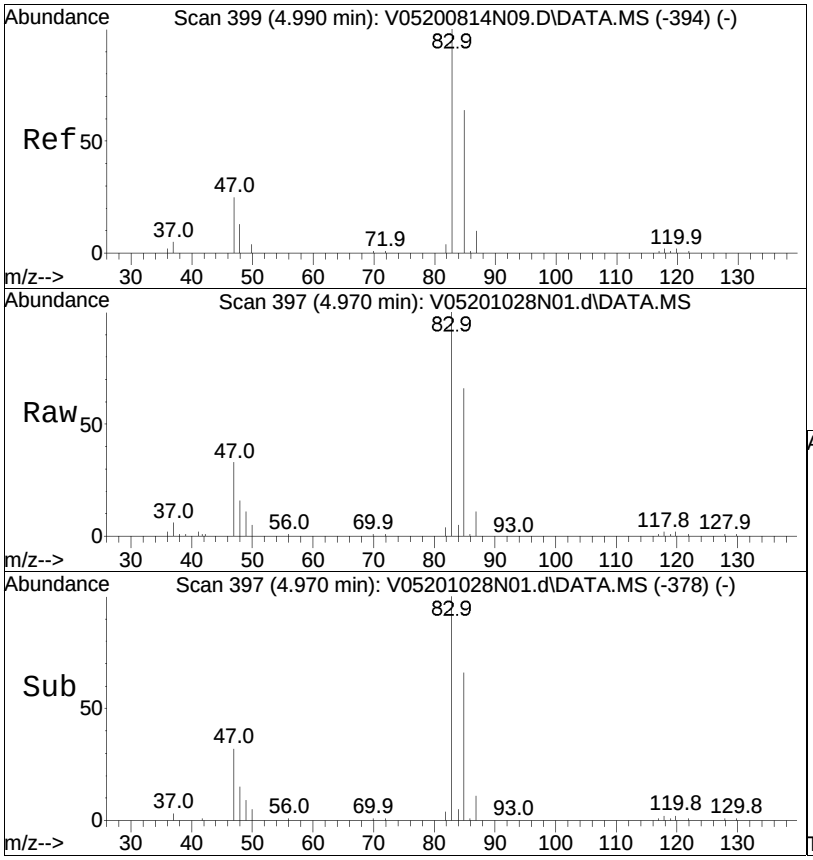


#28
cis-1,2-Dichloroethene
Concen: 9.43 ug/L
RT: 4.706 min Scan# 370
Delta R.T. -0.020 min
Lab File: V05201028N01.d
Acq: 28 Oct 2020 5:58 pm

Tgt Ion: 96 Resp: 76758

Ion	Ratio	Lower	Upper
96	100		
61	139.3	100.5	150.7
98	62.7	49.8	74.8

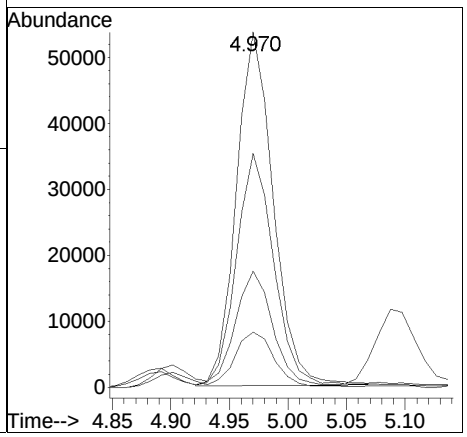


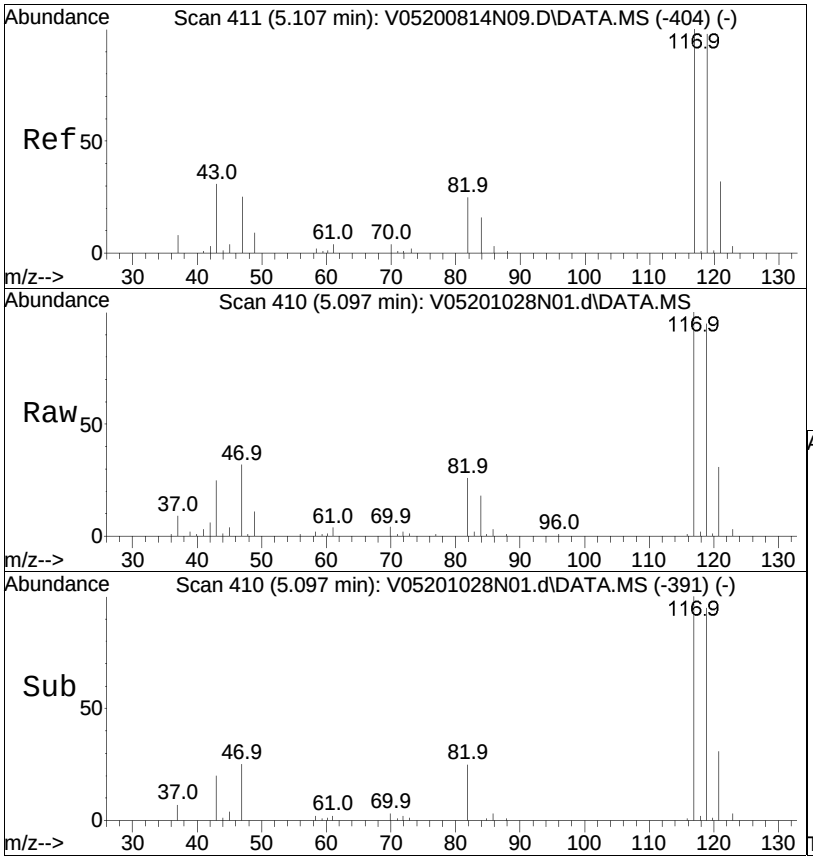


#32
Chloroform
Concen: 8.85 ug/L
RT: 4.970 min Scan# 397
Delta R.T. -0.010 min
Lab File: V05201028N01.d
Acq: 28 Oct 2020 5:58 pm

Tgt Ion: 83 Resp: 117656

Ion	Ratio	Lower	Upper
83	100		
85	68.4	42.8	89.0
47	31.8	13.7	28.4#
48	17.0	6.9	14.3#

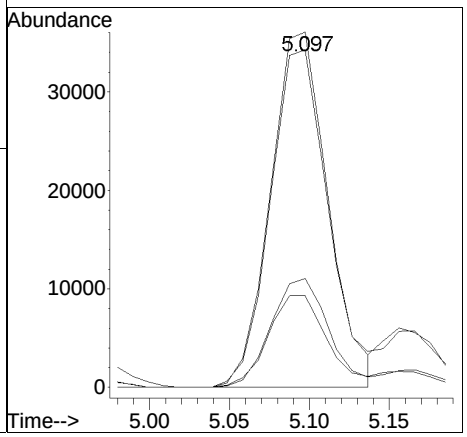


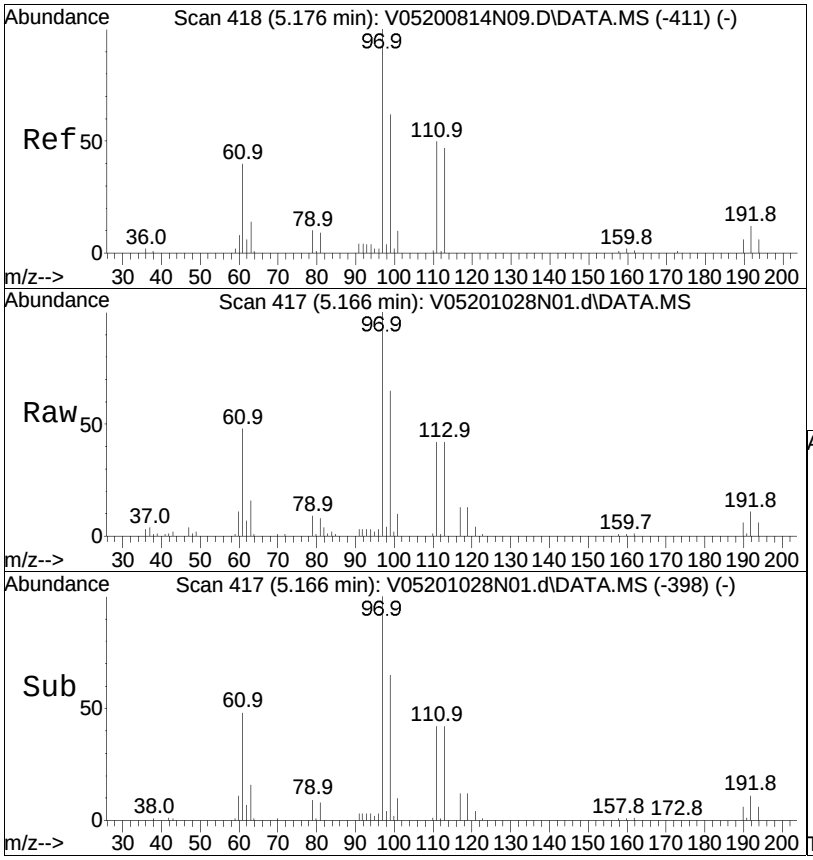


#34
Carbon tetrachloride
Concen: 8.88 ug/L
RT: 5.097 min Scan# 410
Delta R.T. -0.010 min
Lab File: V05201028N01.d
Acq: 28 Oct 2020 5:58 pm

Tgt Ion:117 Resp: 90381

Ion	Ratio	Lower	Upper
117	100		
119	95.8	63.6	132.2
121	30.8	19.8	41.0
82	26.7	15.9	32.9

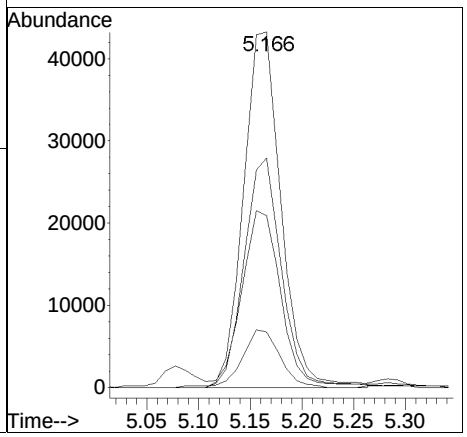


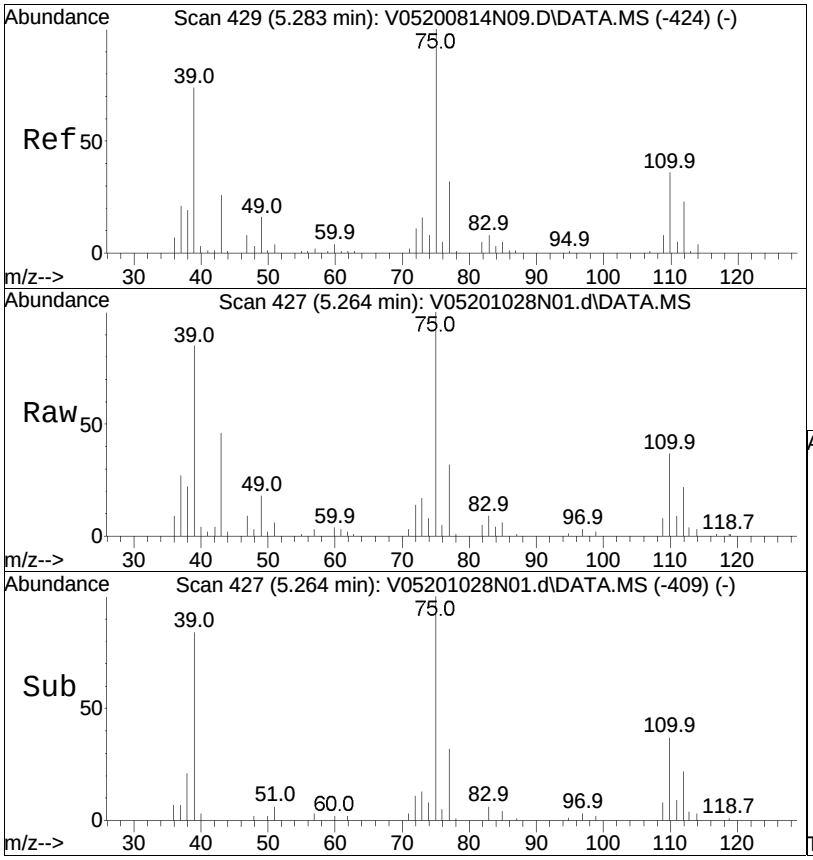


#37
1,1,1-Trichloroethane
Concen: 8.89 ug/L
RT: 5.166 min Scan# 417
Delta R.T. -0.010 min
Lab File: V05201028N01.d
Acq: 28 Oct 2020 5:58 pm

Tgt Ion: 97 Resp: 109661

Ion	Ratio	Lower	Upper
97	100		
99	64.9	41.7	86.5
61	50.9	26.1	54.3
63	16.3	8.5	17.6

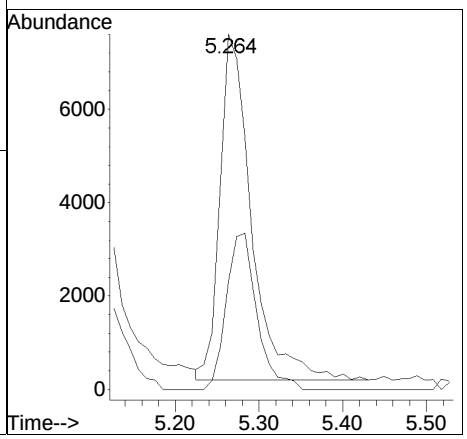


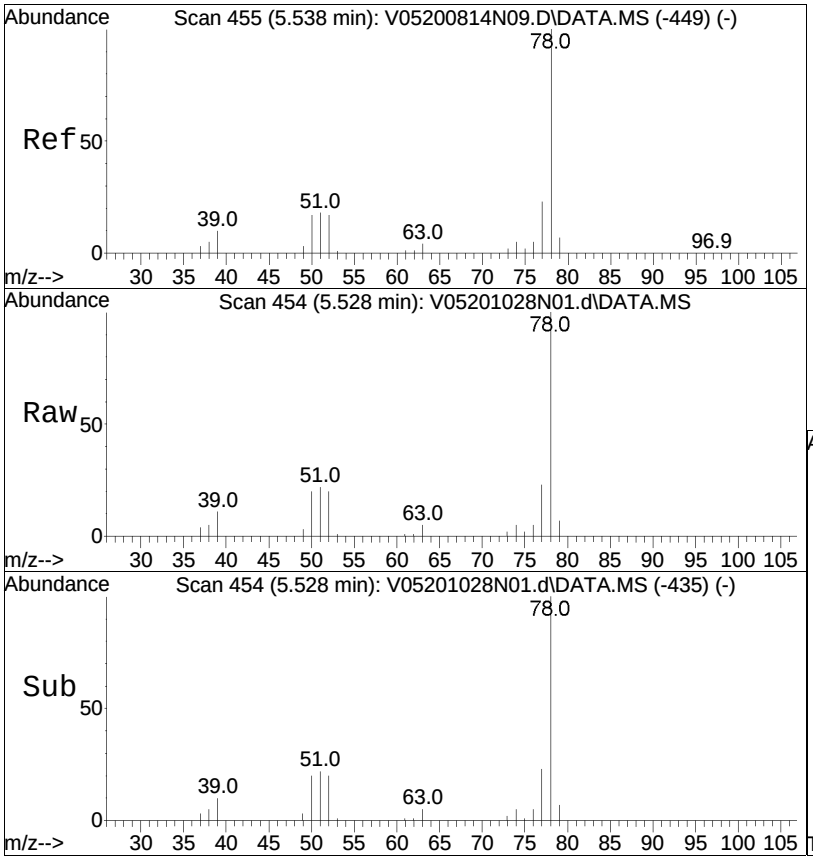


#39
2-Butanone
Concen: 7.76 ug/L
RT: 5.264 min Scan# 427
Delta R.T. -0.019 min
Lab File: V05201028N01.d
Acq: 28 Oct 2020 5:58 pm

Tgt Ion: 43 Resp: 19387

Ion	Ratio	Lower	Upper
43	100		
72	43.8	55.6	83.4#

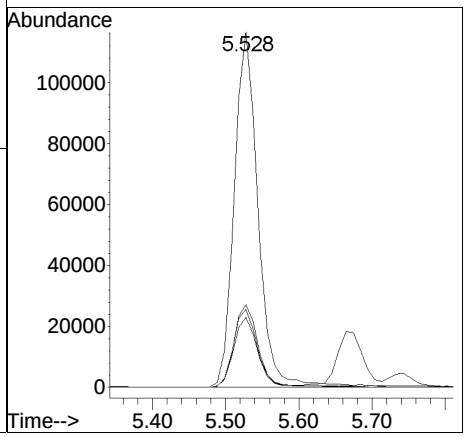


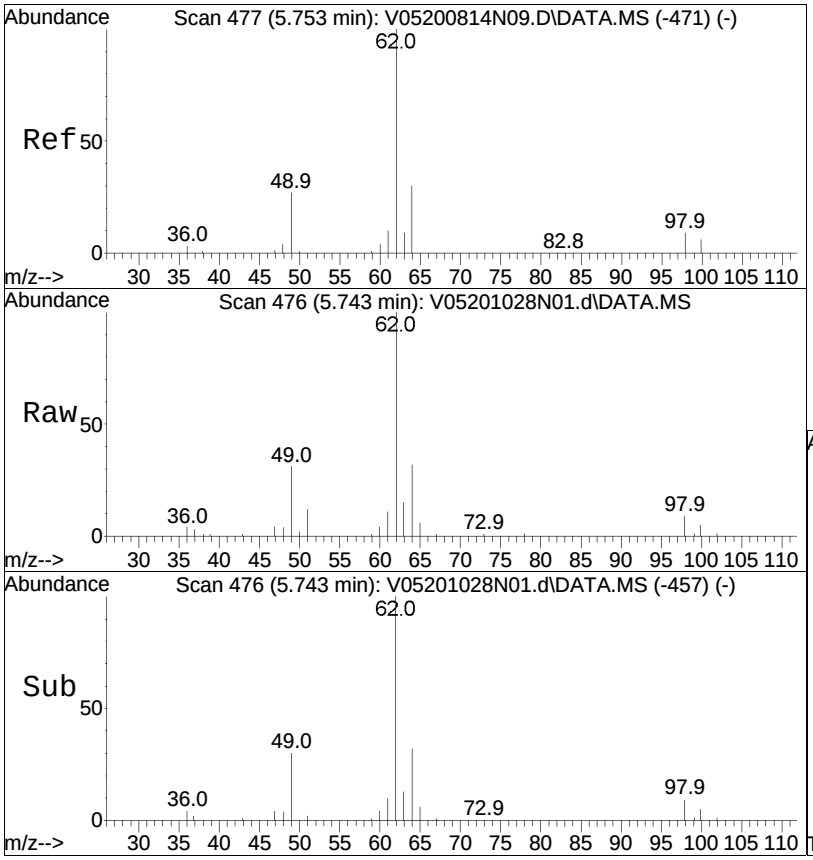


#41
Benzene
Concen: 9.66 ug/L
RT: 5.528 min Scan# 454
Delta R.T. -0.010 min
Lab File: V05201028N01.d
Acq: 28 Oct 2020 5:58 pm

Tgt Ion: 78 Resp: 264686

Ion	Ratio	Lower	Upper
78	100		
77	23.8	15.2	31.6
51	21.8	10.5	21.7#
52	20.7	9.5	19.7#

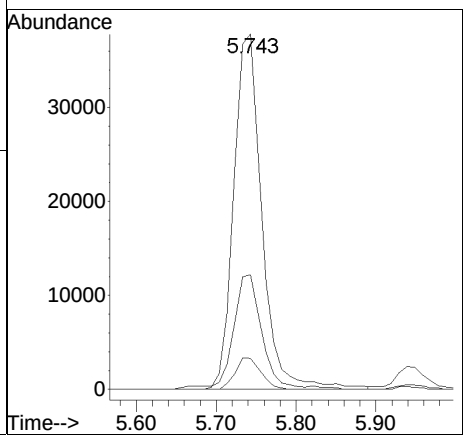


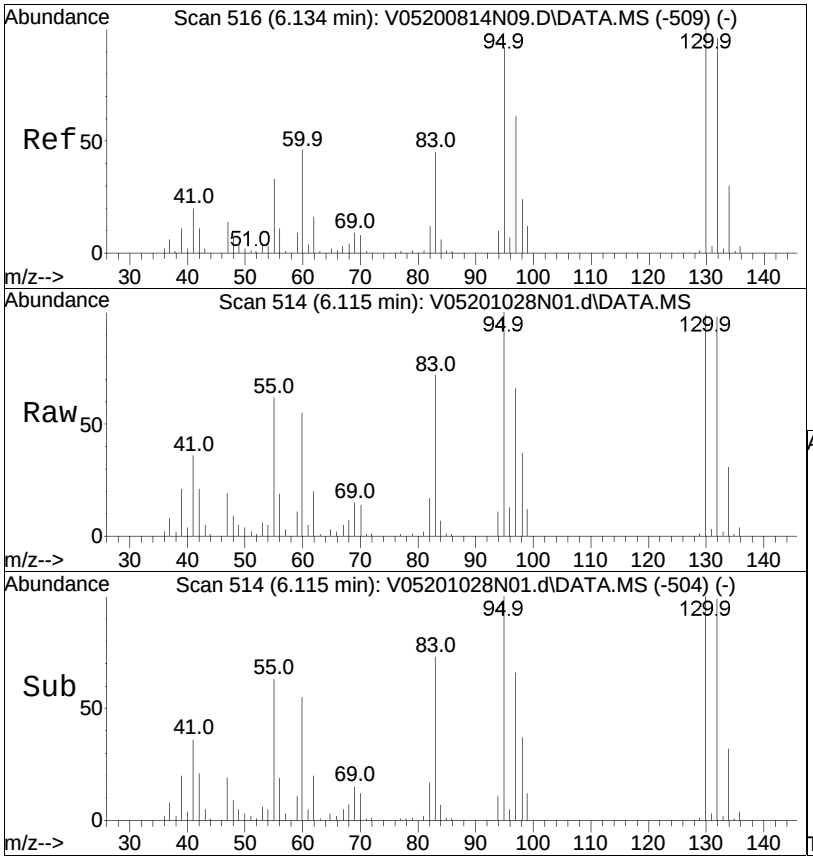


#44
1,2-Dichloroethane
Concen: 9.06 ug/L
RT: 5.743 min Scan# 476
Delta R.T. -0.010 min
Lab File: V05201028N01.d
Acq: 28 Oct 2020 5:58 pm

Tgt Ion: 62 Resp: 93067

Ion	Ratio	Lower	Upper
62	100		
64	32.5	13.2	53.2
98	8.1	0.0	27.8

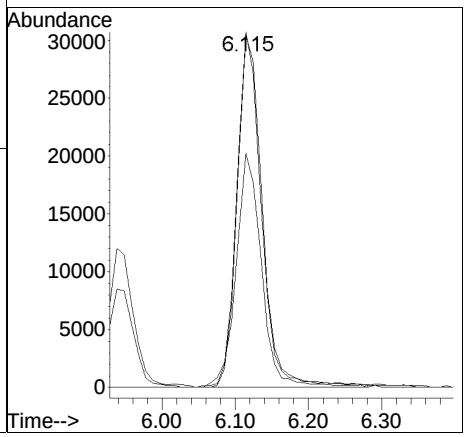


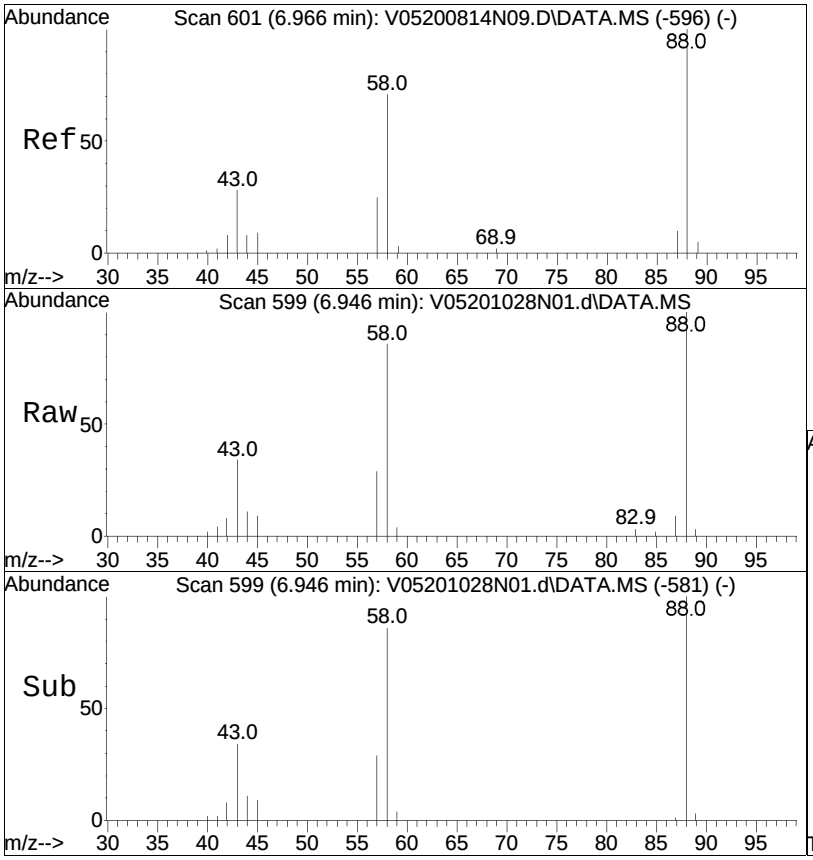


#48
Trichloroethene
Concen: 9.02 ug/L
RT: 6.115 min Scan# 514
Delta R.T. -0.019 min
Lab File: V05201028N01.d
Acq: 28 Oct 2020 5:58 pm

Tgt Ion: 95 Resp: 72385

Ion	Ratio	Lower	Upper
95	100		
97	67.3	56.1	84.1
130	100.9	77.7	116.5

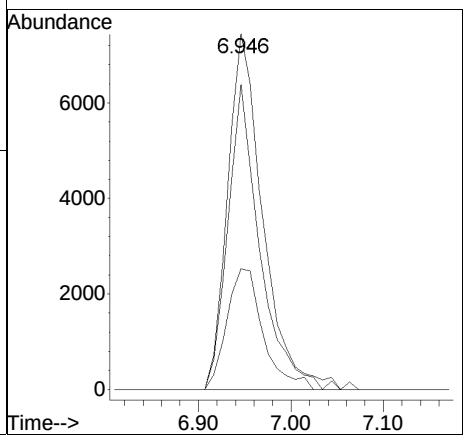


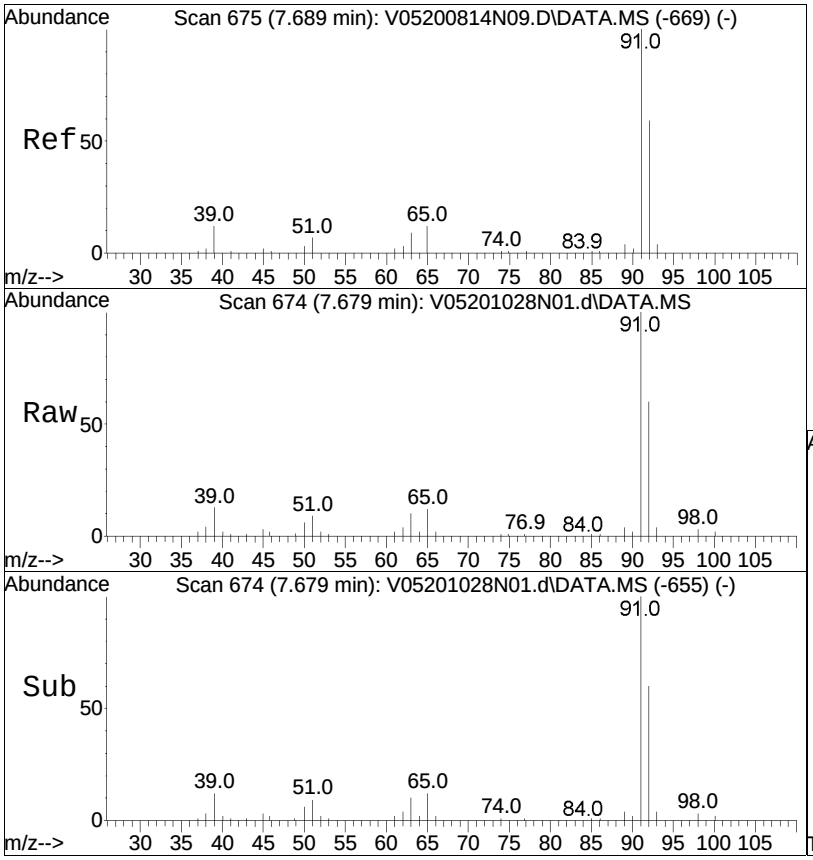


#57
1,4-Dioxane
Concen: 399.64 ug/L
RT: 6.946 min Scan# 599
Delta R.T. -0.020 min
Lab File: V05201028N01.d
Acq: 28 Oct 2020 5:58 pm

Tgt Ion: 88 Resp: 19758

Ion	Ratio	Lower	Upper
88	100		
58	77.7	50.6	75.8#
43	35.0	20.5	30.7#

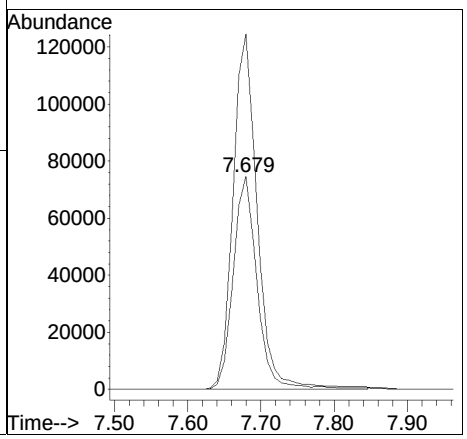


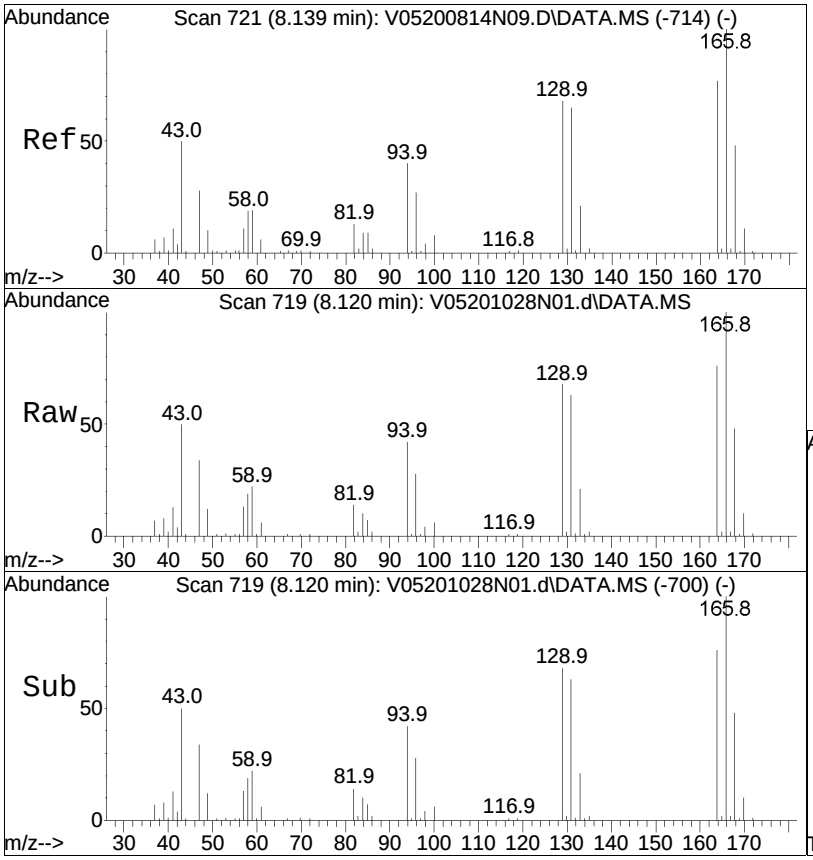


#61
Toluene
Concen: 9.55 ug/L
RT: 7.679 min Scan# 674
Delta R.T. -0.010 min
Lab File: V05201028N01.d
Acq: 28 Oct 2020 5:58 pm

Tgt Ion: 92 Resp: 169930

Ion	Ratio	Lower	Upper
92	100		
91	168.9	135.2	202.8

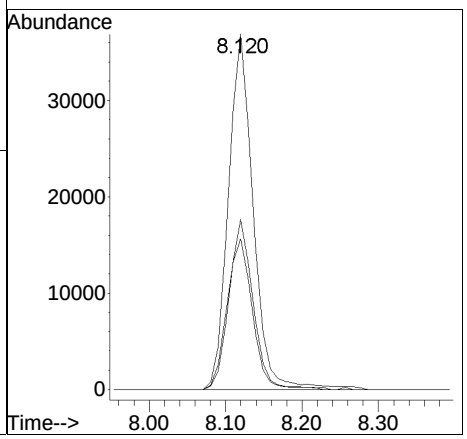


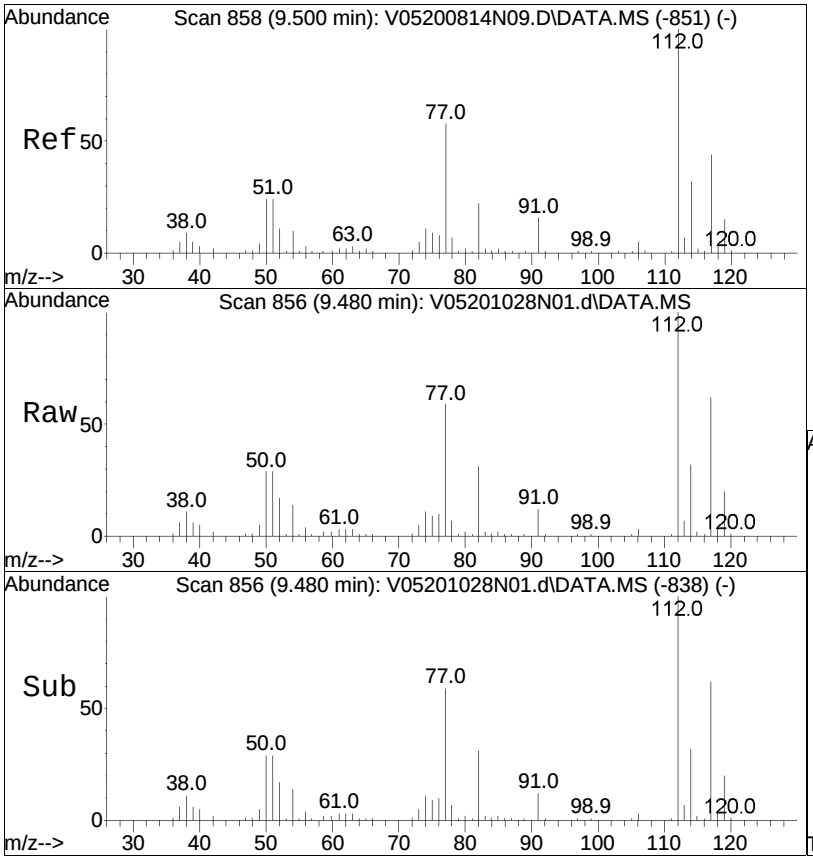


#63
Tetrachloroethene
Concen: 9.90 ug/L
RT: 8.120 min Scan# 719
Delta R.T. -0.010 min
Lab File: V05201028N01.d
Acq: 28 Oct 2020 5:58 pm

Tgt Ion:166 Resp: 83654

Ion	Ratio	Lower	Upper
166	100		
168	46.2	30.2	70.2
94	43.1	32.5	72.5

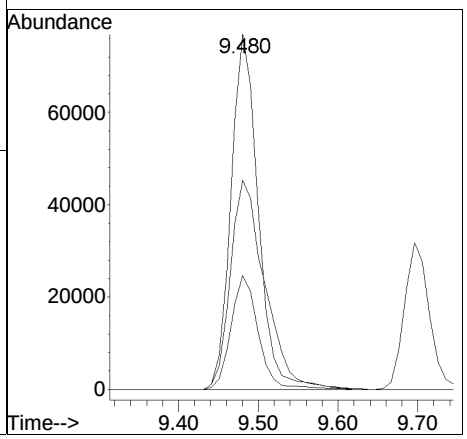


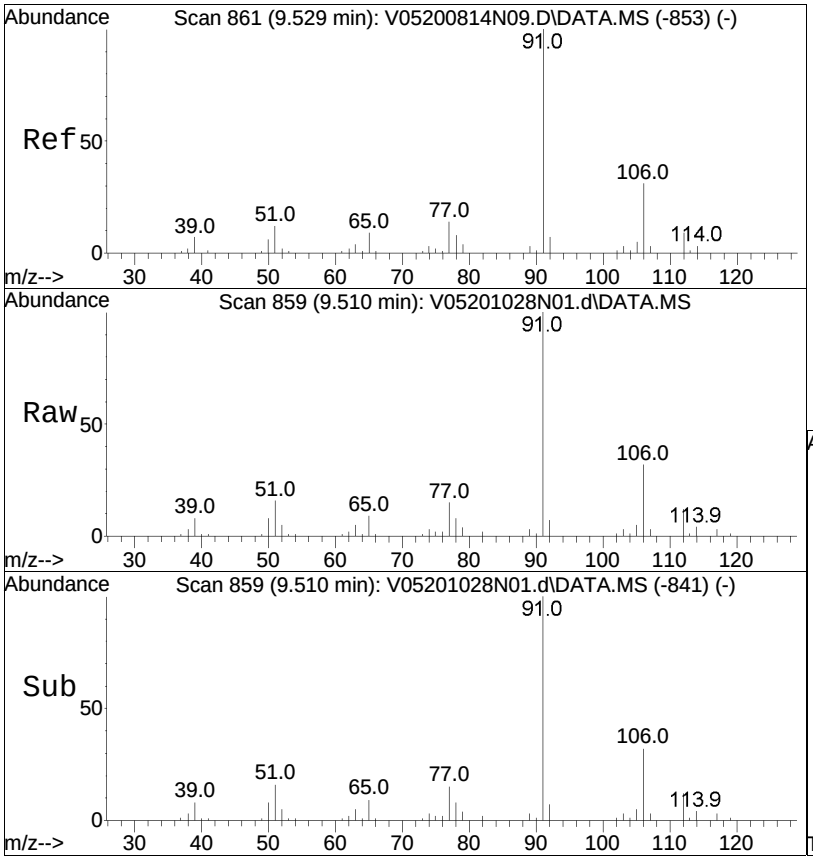


#73
Chlorobenzene
Concen: 9.12 ug/L
RT: 9.480 min Scan# 856
Delta R.T. -0.020 min
Lab File: V05201028N01.d
Acq: 28 Oct 2020 5:58 pm

Tgt Ion:112 Resp: 182848

Ion	Ratio	Lower	Upper
112	100		
77	74.3	66.1	99.1
114	32.1	25.4	38.0

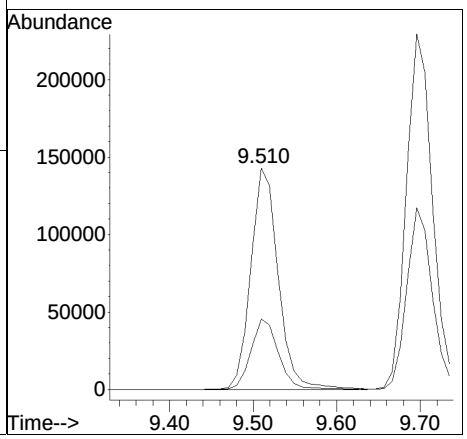


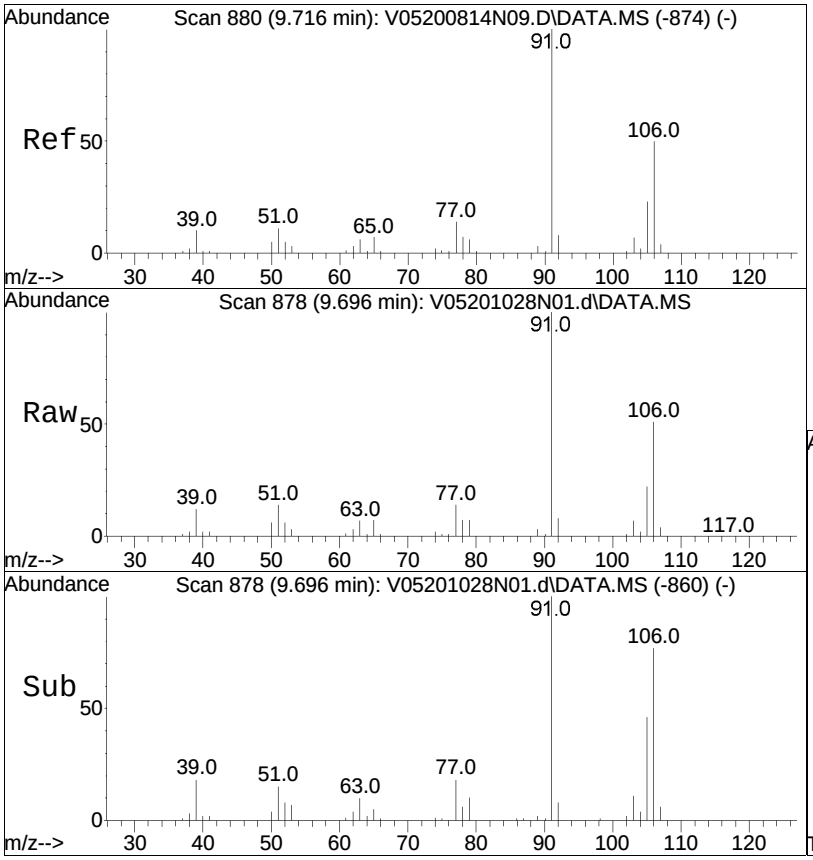


#74
Ethylbenzene
Concen: 9.21 ug/L
RT: 9.510 min Scan# 859
Delta R.T. -0.019 min
Lab File: V05201028N01.d
Acq: 28 Oct 2020 5:58 pm

Tgt Ion: 91 Resp: 326751

Ion	Ratio	Lower	Upper
91	100		
106	31.9	22.9	34.3

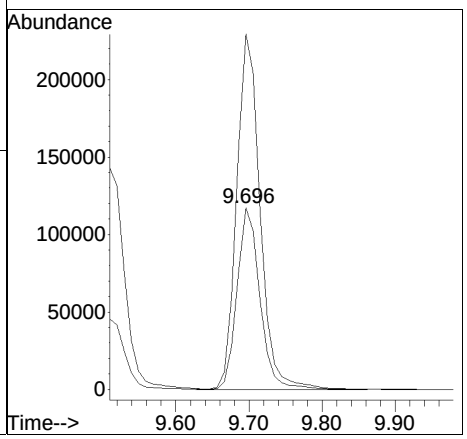


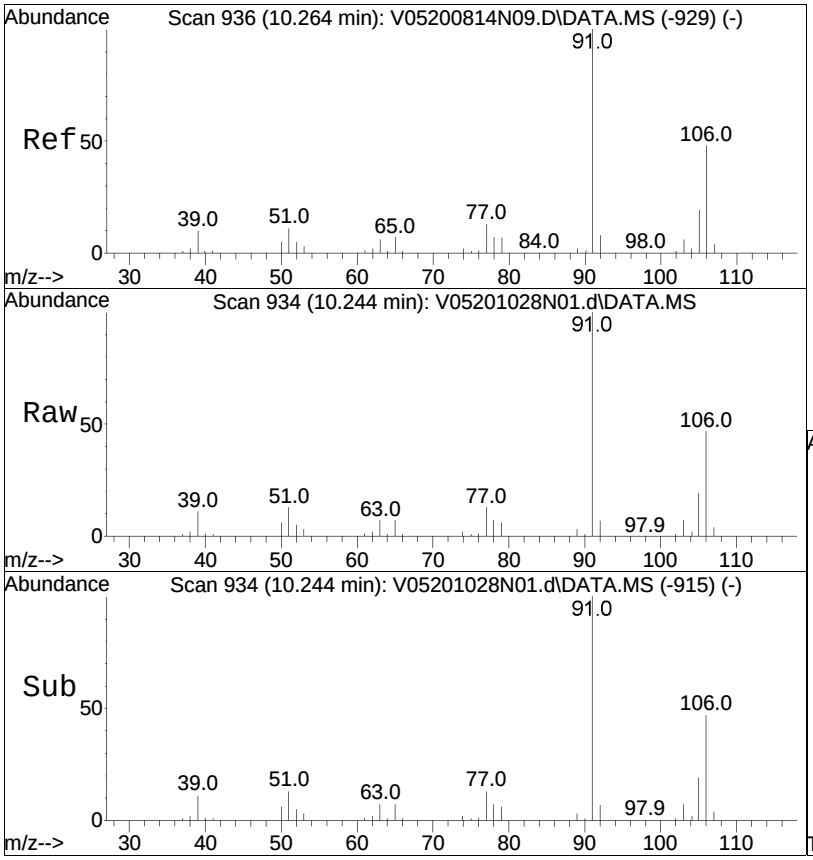


#76
p/m Xylene
Concen: 18.36 ug/L
RT: 9.696 min Scan# 878
Delta R.T. -0.020 min
Lab File: V05201028N01.d
Acq: 28 Oct 2020 5:58 pm

Tgt Ion:106 Resp: 255223

Ion	Ratio	Lower	Upper
106	100		
91	198.6	177.2	265.8

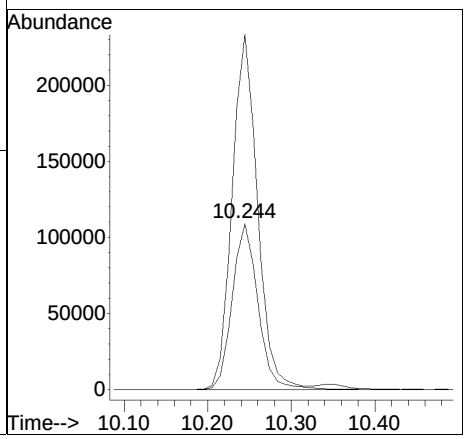


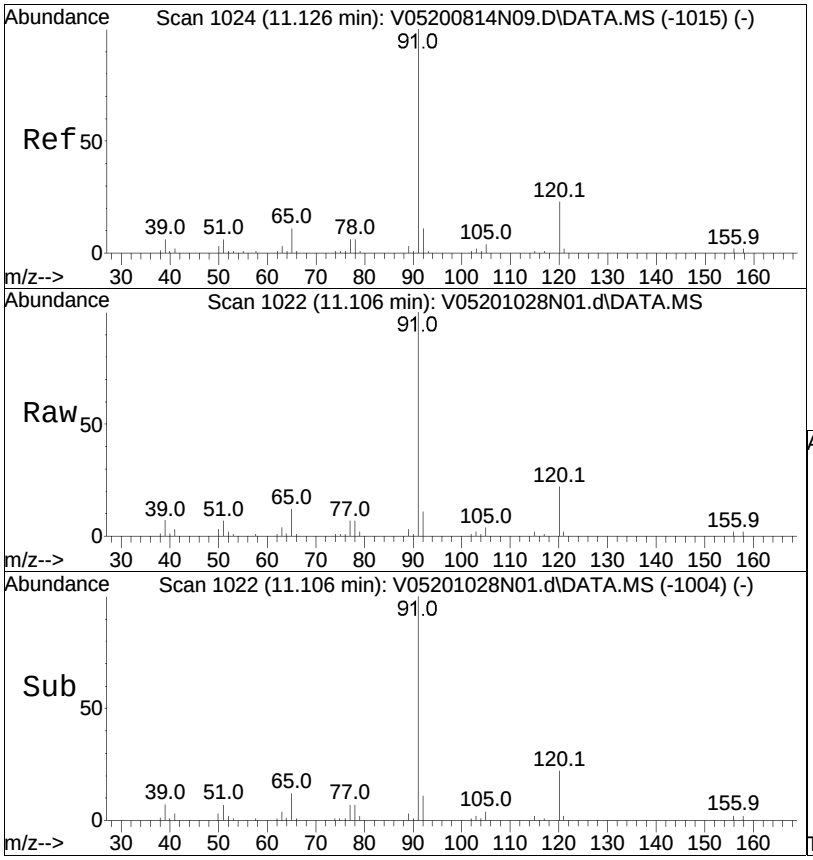


#77
o Xylene
Concen: 18.46 ug/L
RT: 10.244 min Scan# 934
Delta R.T. -0.010 min
Lab File: V05201028N01.d
Acq: 28 Oct 2020 5:58 pm

Tgt Ion:106 Resp: 232567

Ion	Ratio	Lower	Upper
106	100		
91	211.3	187.0	280.6

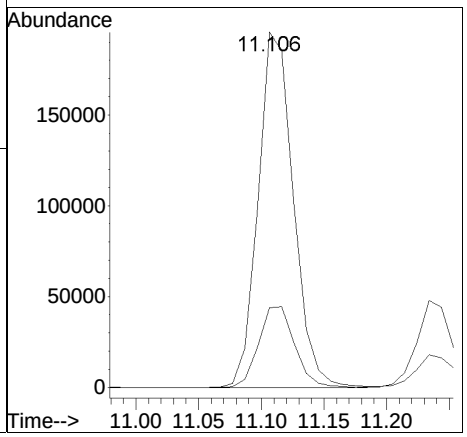


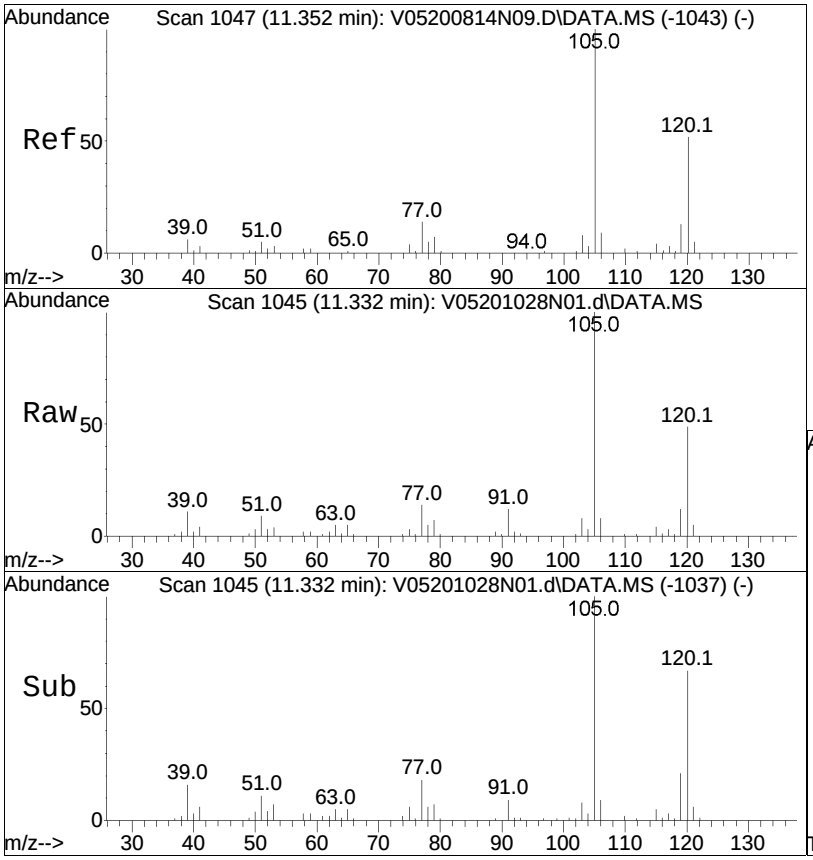


#85
n-Propylbenzene
Concen: 9.58 ug/L
RT: 11.106 min Scan# 1022
Delta R.T. -0.020 min
Lab File: V05201028N01.d
Acq: 28 Oct 2020 5:58 pm

Tgt Ion: 91 Resp: 381324

Ion	Ratio	Lower	Upper
91	100		
120	23.2	17.3	25.9

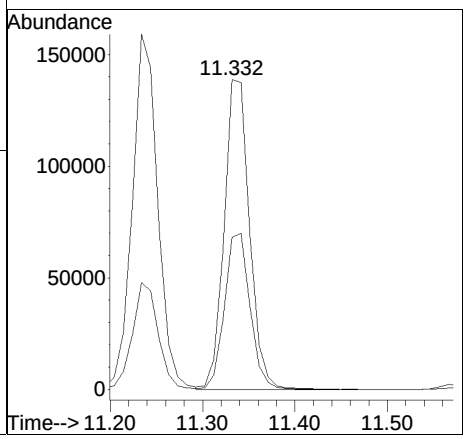


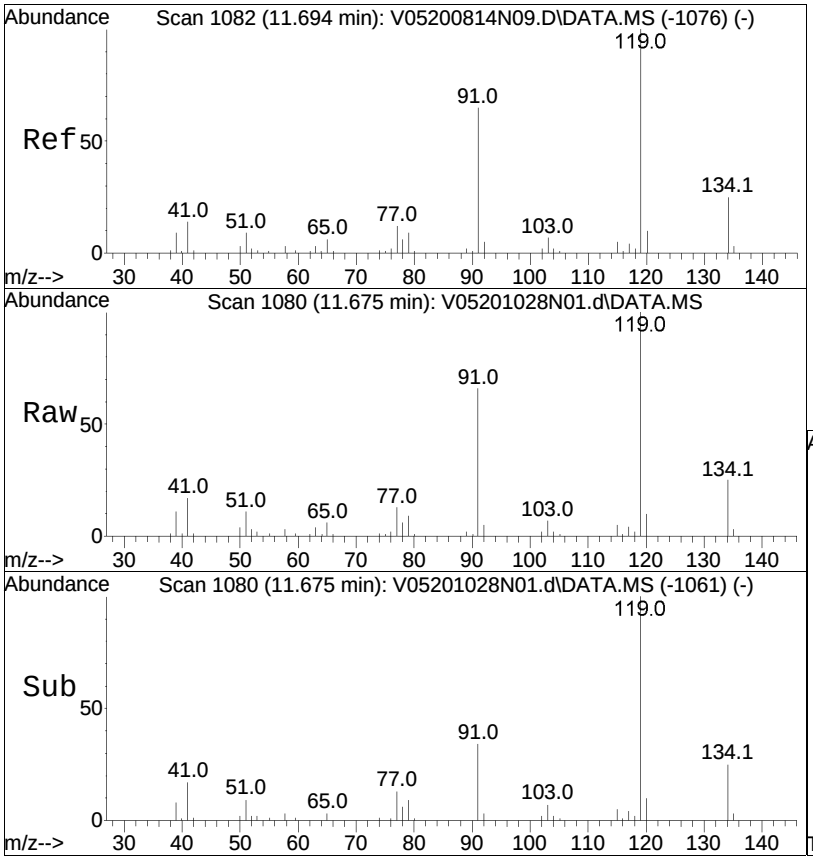


#90
1,3,5-Trimethylbenzene
Concen: 9.57 ug/L
RT: 11.332 min Scan# 1045
Delta R.T. -0.020 min
Lab File: V05201028N01.d
Acq: 28 Oct 2020 5:58 pm

Tgt Ion:105 Resp: 265010

Ion	Ratio	Lower	Upper
105	100		
120	50.7	37.0	55.6

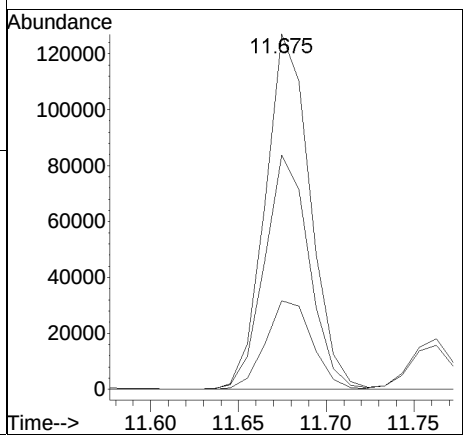


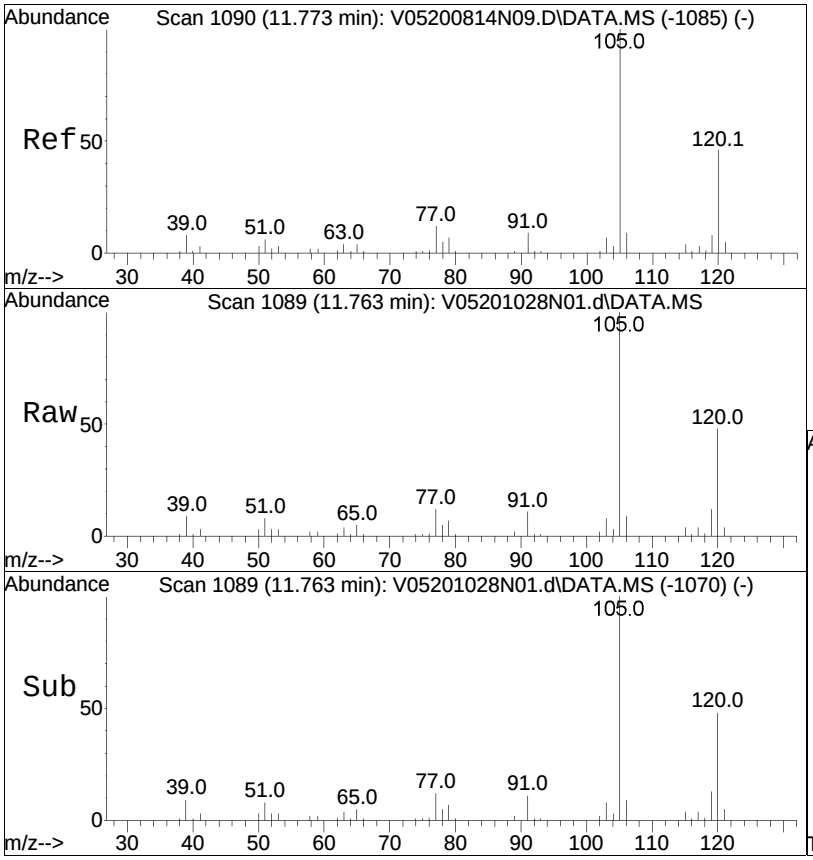


#94
tert-Butylbenzene
Concen: 9.23 ug/L
RT: 11.675 min Scan# 1080
Delta R.T. -0.010 min
Lab File: V05201028N01.d
Acq: 28 Oct 2020 5:58 pm

Tgt Ion:119 Resp: 226411

Ion	Ratio	Lower	Upper
119	100		
91	65.9	49.2	73.8
134	26.0	18.3	27.5

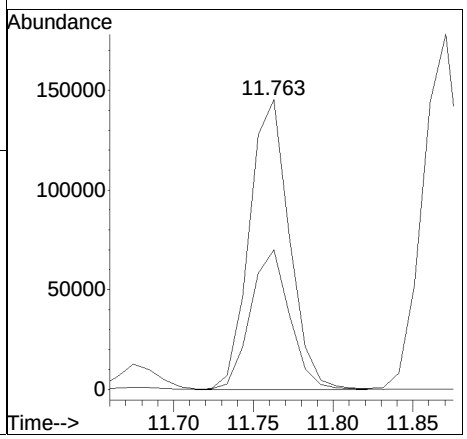


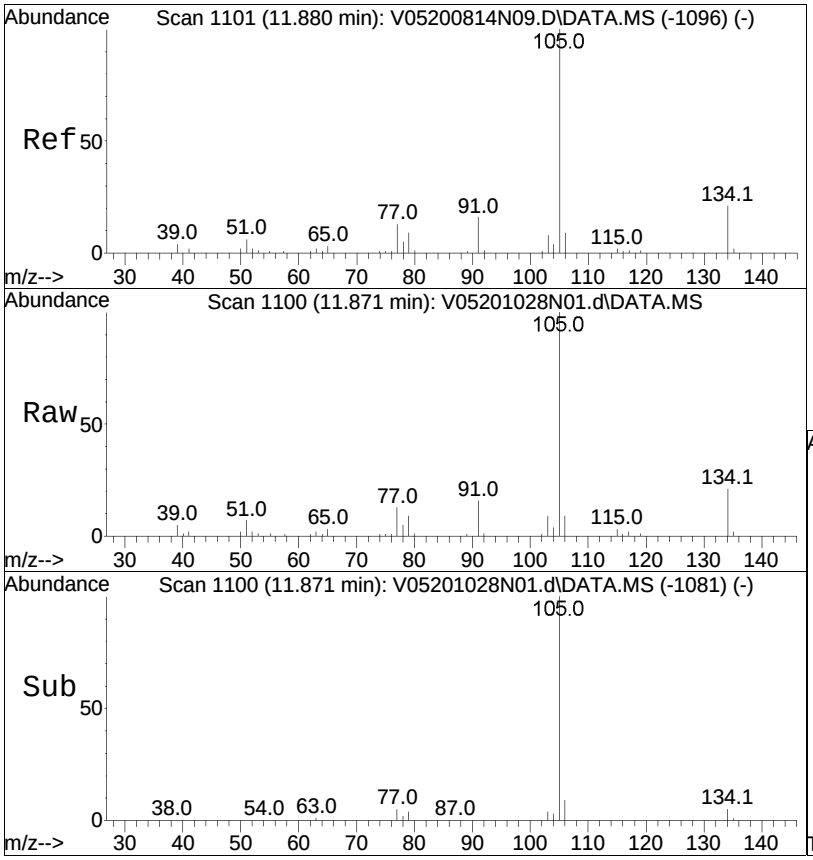


#97
1,2,4-Trimethylbenzene
Concen: 9.59 ug/L
RT: 11.763 min Scan# 1089
Delta R.T. -0.010 min
Lab File: V05201028N01.d
Acq: 28 Oct 2020 5:58 pm

Tgt Ion:105 Resp: 253714

Ion	Ratio	Lower	Upper
105	100		
120	47.3	34.4	51.6

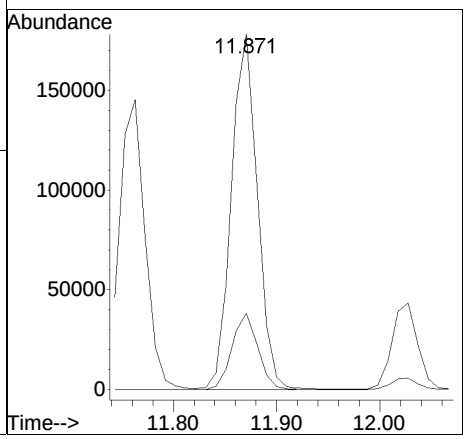


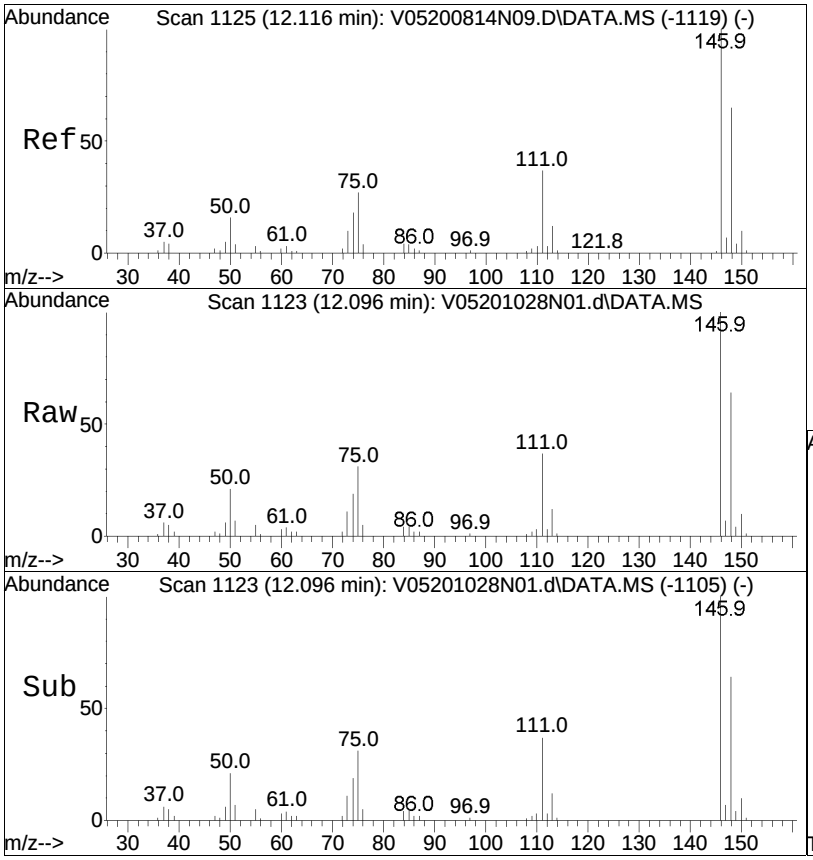


#98
sec-Butylbenzene
Concen: 9.44 ug/L
RT: 11.871 min Scan# 1100
Delta R.T. -0.010 min
Lab File: V05201028N01.d
Acq: 28 Oct 2020 5:58 pm

Tgt Ion:105 Resp: 312781

Ion	Ratio	Lower	Upper
105	100		
134	21.0	12.9	26.9

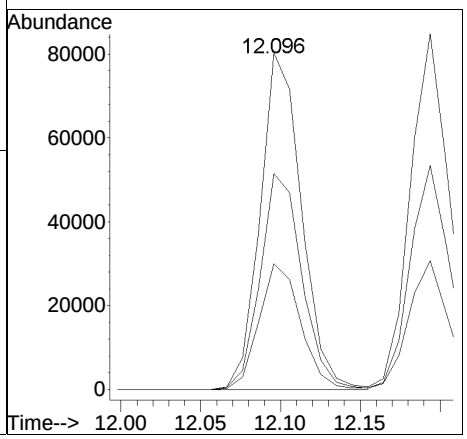


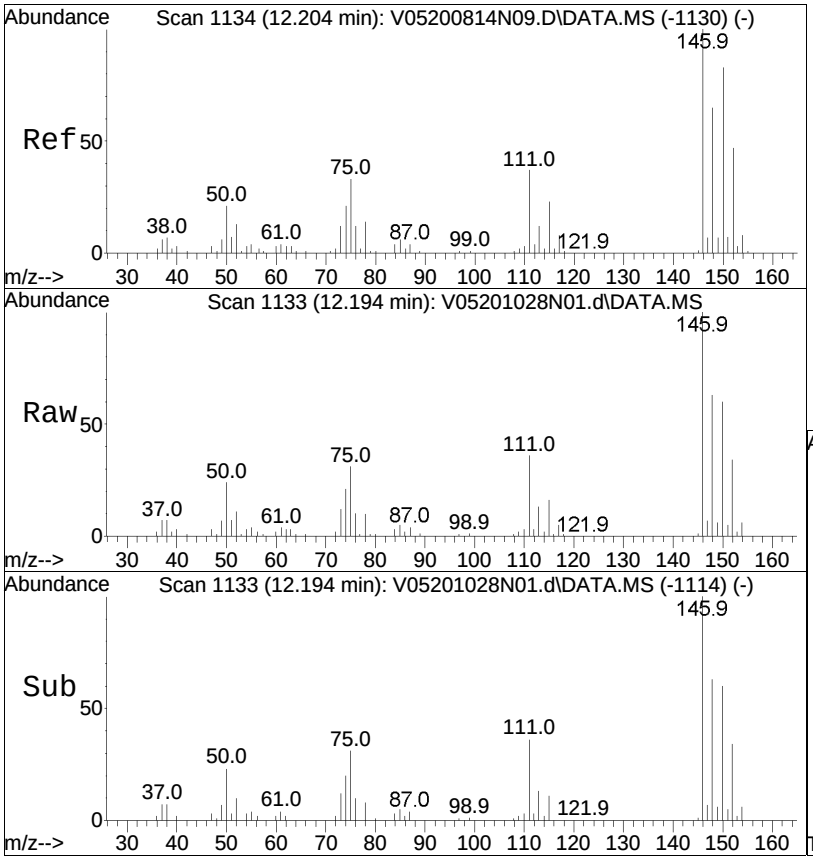


#100
1,3-Dichlorobenzene
Concen: 9.65 ug/L
RT: 12.096 min Scan# 1123
Delta R.T. -0.020 min
Lab File: V05201028N01.d
Acq: 28 Oct 2020 5:58 pm

Tgt Ion:146 Resp: 144345

Ion	Ratio	Lower	Upper
146	100		
111	37.6	28.0	58.1
148	64.7	41.6	86.4

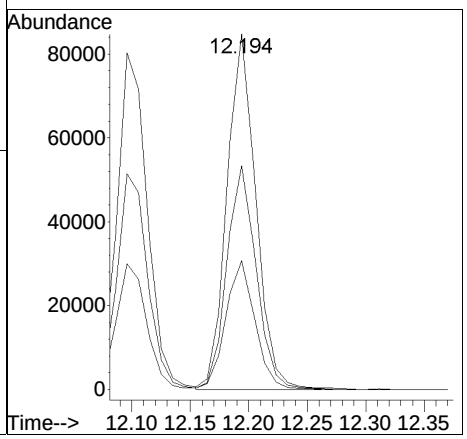


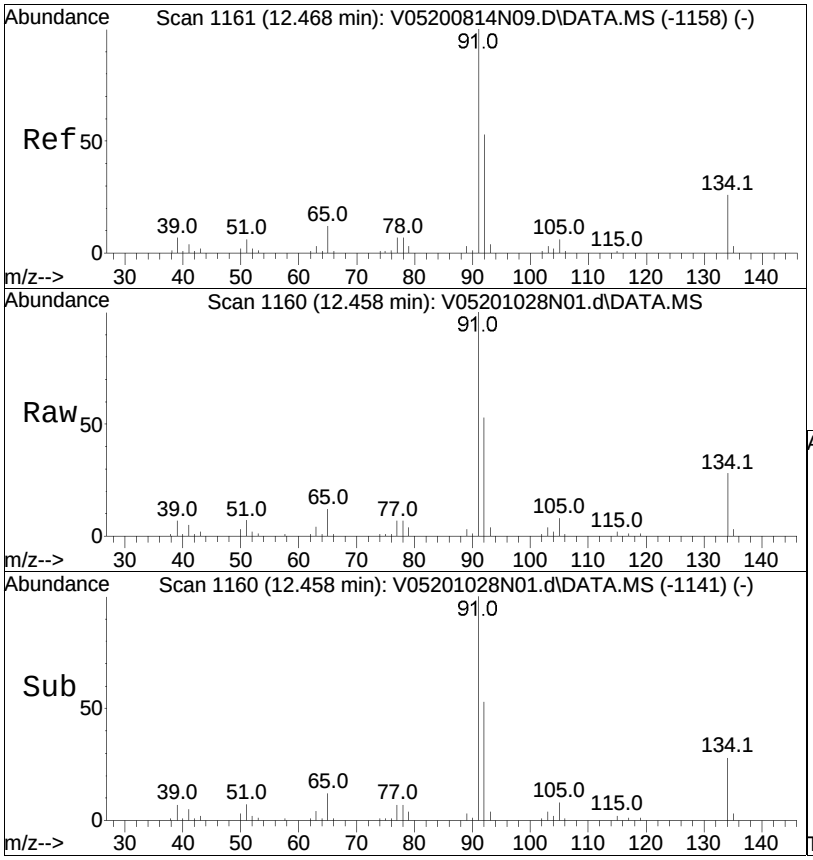


#101
1,4-Dichlorobenzene
Concen: 9.70 ug/L
RT: 12.194 min Scan# 1133
Delta R.T. -0.010 min
Lab File: V05201028N01.d
Acq: 28 Oct 2020 5:58 pm

Tgt Ion:146 Resp: 146061

Ion	Ratio	Lower	Upper
146	100		
111	36.5	33.8	50.6
148	63.9	51.0	76.6

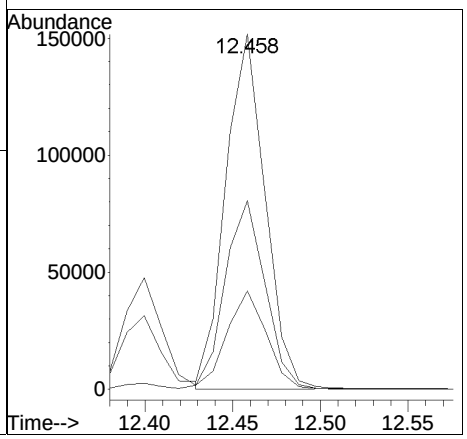


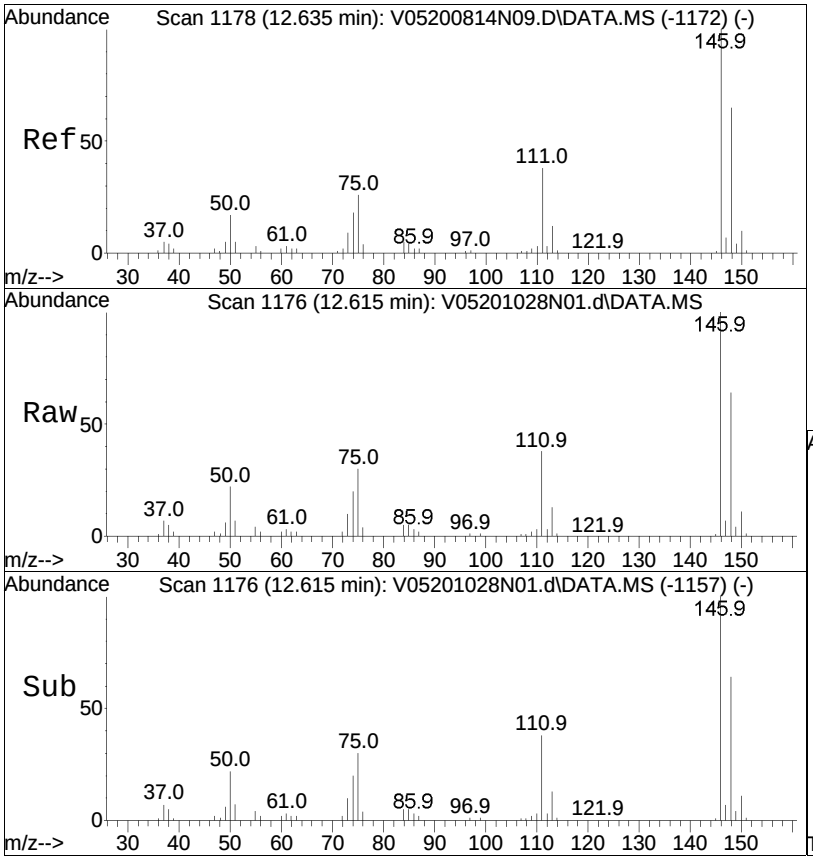


#103
n-Butylbenzene
Concen: 9.02 ug/L
RT: 12.458 min Scan# 1160
Delta R.T. -0.010 min
Lab File: V05201028N01.d
Acq: 28 Oct 2020 5:58 pm

Tgt Ion: 91 Resp: 237126

Ion	Ratio	Lower	Upper
91	100		
92	54.5	44.2	66.2
134	28.0	20.2	30.2

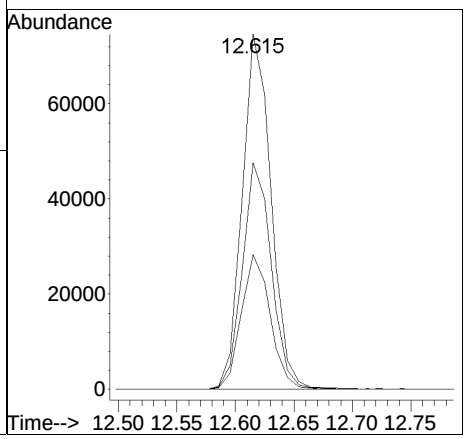




#104
1,2-Dichlorobenzene
Concen: 9.69 ug/L
RT: 12.615 min Scan# 1176
Delta R.T. -0.010 min
Lab File: V05201028N01.d
Acq: 28 Oct 2020 5:58 pm

Tgt Ion:146 Resp: 128577

Ion	Ratio	Lower	Upper
146	100		
111	38.1	29.1	60.5
148	63.9	41.7	86.7



Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201029A\
Data File : V08201029A01.d
Acq On : 29 Oct 2020 8:10 am
Operator : VOA108:PD
Sample : WG1428085-3,31,10,10
Misc : WG1428085,ICAL17242
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 29 08:27:24 2020
Quant Method : I:\VOLATILES\VOA108\2020\201029A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
Response via : Initial Calibration

Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.384	96	152206	10.000	ug/L	0.00
59) Chlorobenzene-d5	8.420	117	101386	10.000	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	9.914	152	48766	10.000	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	4.388	113	36442	9.547	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.47%			
43) 1,2-Dichloroethane-d4	5.033	65	40209	9.040	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 90.40%			
60) Toluene-d8	7.093	98	141083	10.524	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.24%			
83) 4-Bromofluorobenzene	9.243	95	48033	10.276	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.76%			
Target Compounds						Qvalue
4) Vinyl chloride	1.101	62	38112	9.250	ug/L	91
10) 1,1-Dichloroethene	1.824	96	31481	9.356	ug/L #	63
15) Methylene chloride	2.291	84	37725	9.387	ug/L	69
17) Acetone	2.343	43	6963M1	8.320	ug/L	
18) trans-1,2-Dichloroethene	2.438	96	32828	9.317	ug/L	72
20) Methyl tert-butyl ether	2.553	73	85778M1	8.597	ug/L	
23) 1,1-Dichloroethane	3.046	63	67263M1	10.045	ug/L	
28) cis-1,2-Dichloroethene	3.712	96	40613M1	9.263	ug/L	
32) Chloroform	4.142	83	63718	9.169	ug/L	97
34) Carbon tetrachloride	4.262	117	42240	9.088	ug/L	98
37) 1,1,1-Trichloroethane	4.362	97	56009	9.394	ug/L #	94
39) 2-Butanone	4.572	43	9195M1	6.567	ug/L	
41) Benzene	4.855	78	136202	9.166	ug/L #	88
44) 1,2-Dichloroethane	5.117	62	47218	9.253	ug/L	99
48) Trichloroethene	5.583	95	38315	9.504	ug/L	99
57) 1,4-Dioxane	6.480	88	10984	328.865	ug/L #	69
61) Toluene	7.146	92	93146	10.612	ug/L	97
63) Tetrachloroethene	7.513	166	38036	6.851	ug/L	95
73) Chlorobenzene	8.430	112	94386	10.030	ug/L	91
74) Ethylbenzene	8.472	91	168338	10.170	ug/L	99
76) p/m Xylene	8.577	106	126693	19.991	ug/L	99
77) o Xylene	8.866	106	124734	21.093	ug/L	89
85) n-Propylbenzene	9.337	91	200580	11.250	ug/L	99
90) 1,3,5-Trimethylbenzene	9.463	105	139887	11.089	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201029A\
Data File : V08201029A01.d
Acq On : 29 Oct 2020 8:10 am
Operator : VOA108:PD
Sample : WG1428085-3,31,10,10
Misc : WG1428085,ICAL17242
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 29 08:27:24 2020
Quant Method : I:\VOLATILES\VOA108\2020\201029A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
Response via : Initial Calibration

Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	tert-Butylbenzene	9.647	119	114595	10.174	ug/L	94
97)	1,2,4-Trimethylbenzene	9.689	105	136008	10.940	ug/L	93
98)	sec-Butylbenzene	9.752	105	168727	11.508	ug/L	98
100)	1,3-Dichlorobenzene	9.872	146	75561	10.687	ug/L	97
101)	1,4-Dichlorobenzene	9.925	146	77800	10.634	ug/L	99
103)	n-Butylbenzene	10.082	91	142058	11.300	ug/L	98
104)	1,2-Dichlorobenzene	10.166	146	73532	10.738	ug/L	96

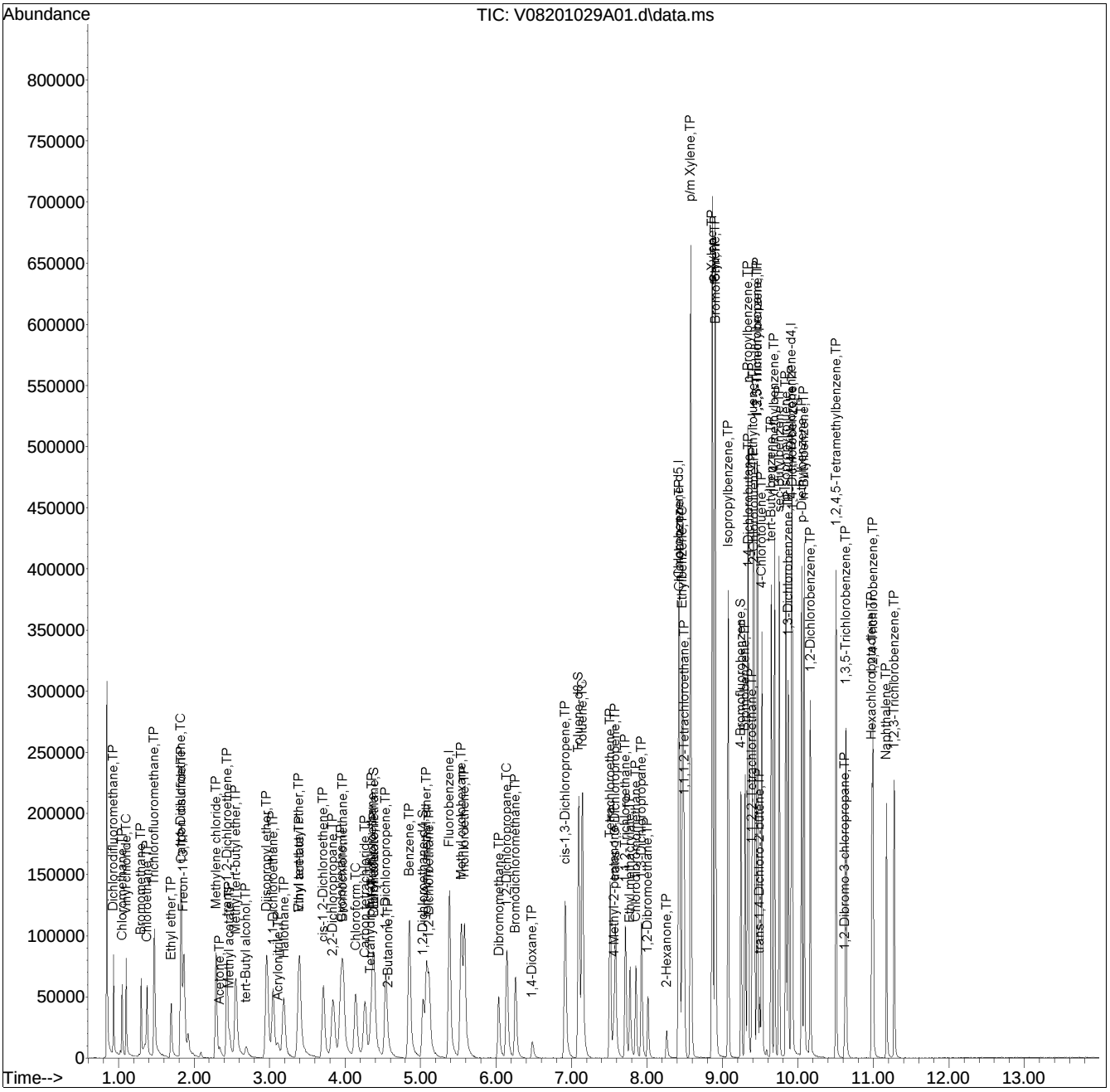
(#) = qualifier out of range (m) = manual integration (+) = signals summed

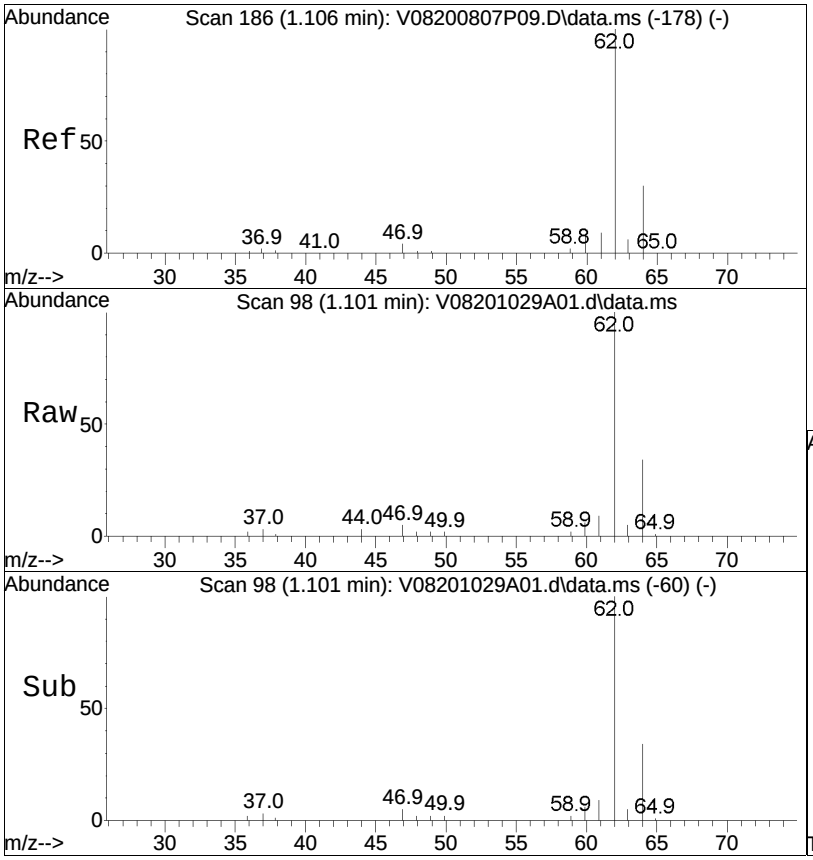
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201029A\
Data File : V08201029A01.d
Acq On : 29 Oct 2020 8:10 am
Operator : VOA108:PD
Sample : WG1428085-3,31,10,10
Misc : WG1428085,ICAL17242
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 29 08:27:24 2020
Quant Method : I:\VOLATILES\VOA108\2020\201029A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
Response via : Initial Calibration

Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

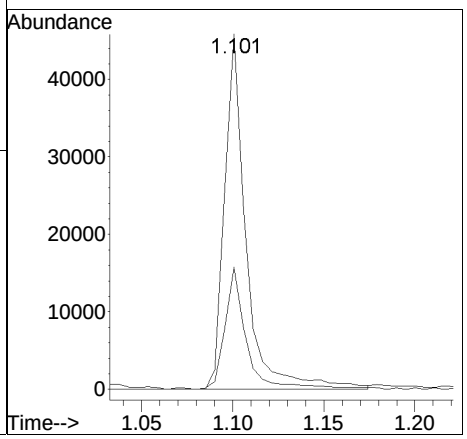


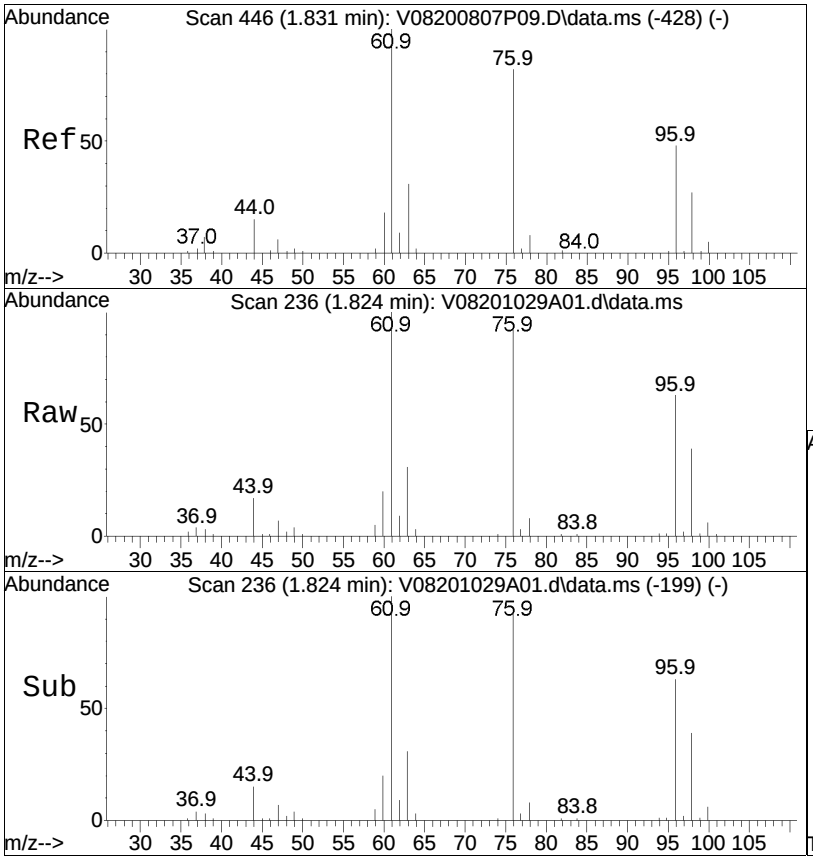


#4
Vinyl chloride
Concen: 9.25 ug/L
RT: 1.101 min Scan# 98
Delta R.T. -0.000 min
Lab File: V08201029A01.d
Acq: 29 Oct 2020 8:10 am

Tgt Ion: 62 Resp: 38112

Ion	Ratio	Lower	Upper
62	100		
64	33.9	9.1	49.1

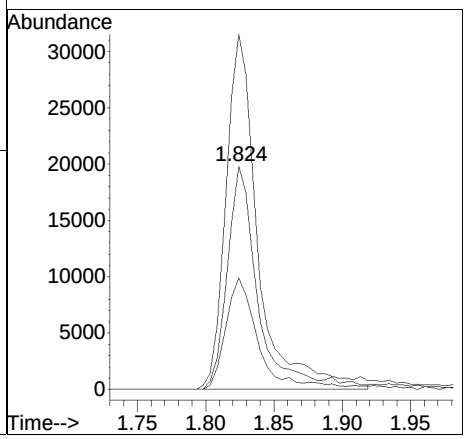


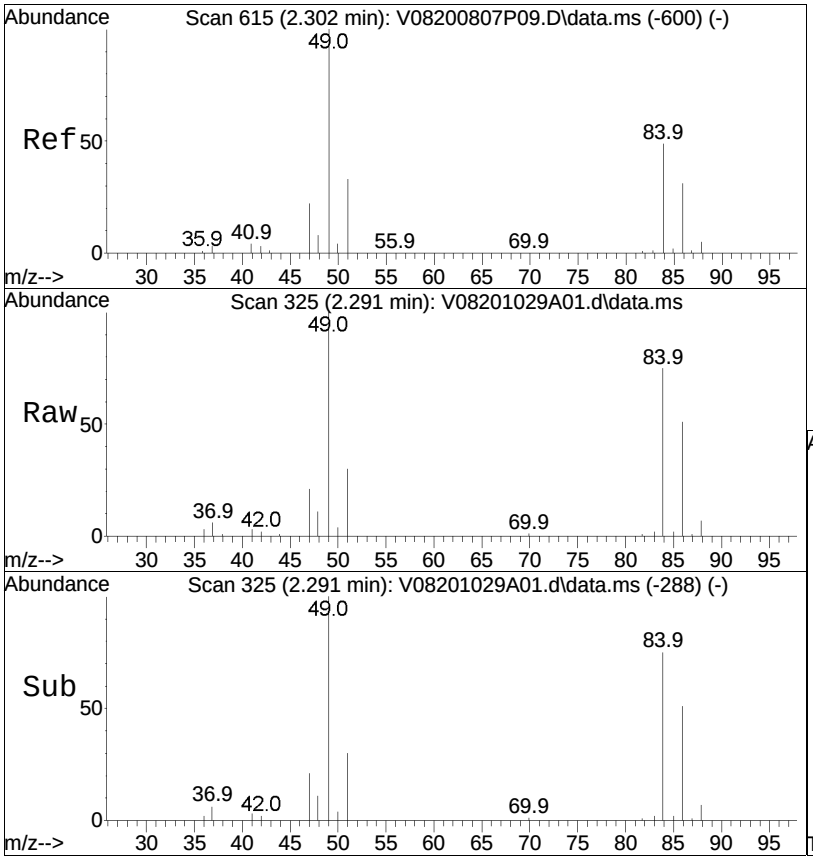


#10
1,1-Dichloroethene
Concen: 9.36 ug/L
RT: 1.824 min Scan# 236
Delta R.T. -0.005 min
Lab File: V08201029A01.d
Acq: 29 Oct 2020 8:10 am

Tgt Ion: 96 Resp: 31481

Ion	Ratio	Lower	Upper
96	100		
61	163.1	186.1	279.1#
63	52.2	57.6	86.4#

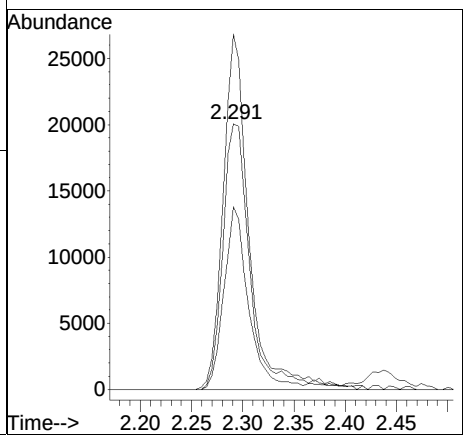


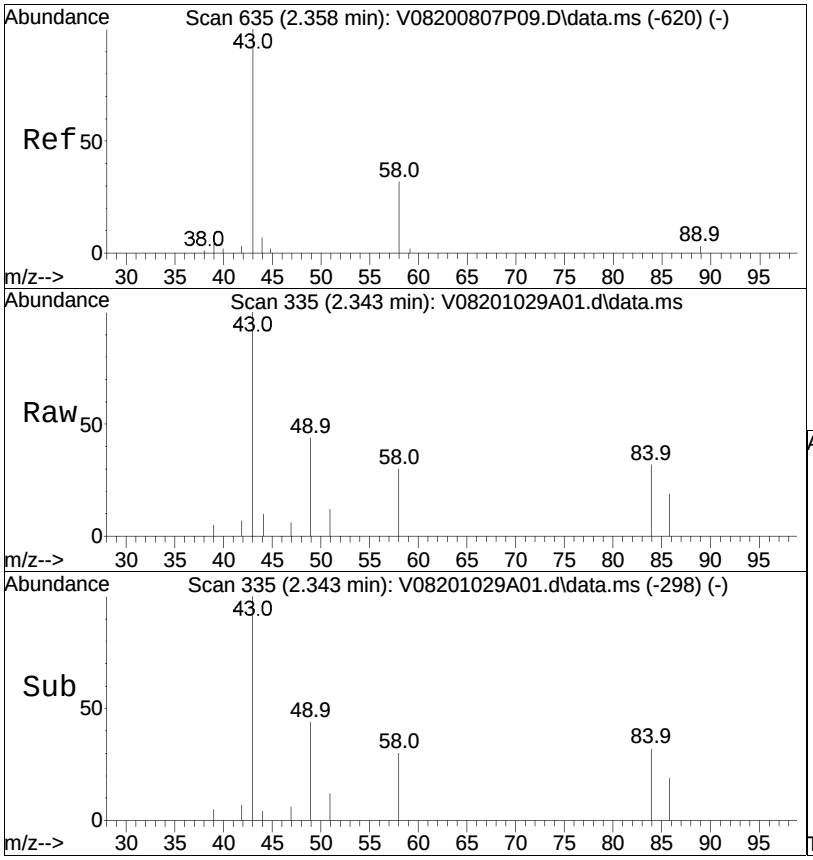


#15
Methylene chloride
Concen: 9.39 ug/L
RT: 2.291 min Scan# 325
Delta R.T. -0.005 min
Lab File: V08201029A01.d
Acq: 29 Oct 2020 8:10 am

Tgt Ion: 84 Resp: 37725

Ion	Ratio	Lower	Upper
84	100		
86	61.3	40.4	83.8
49	125.2	120.0	249.2

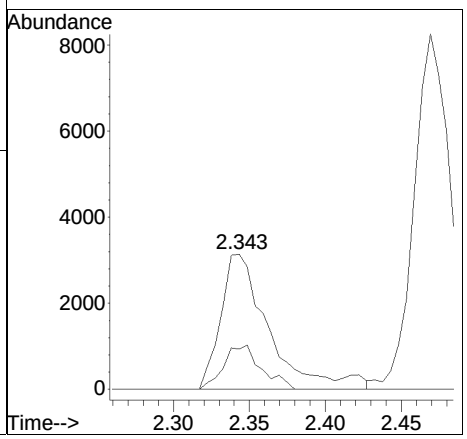


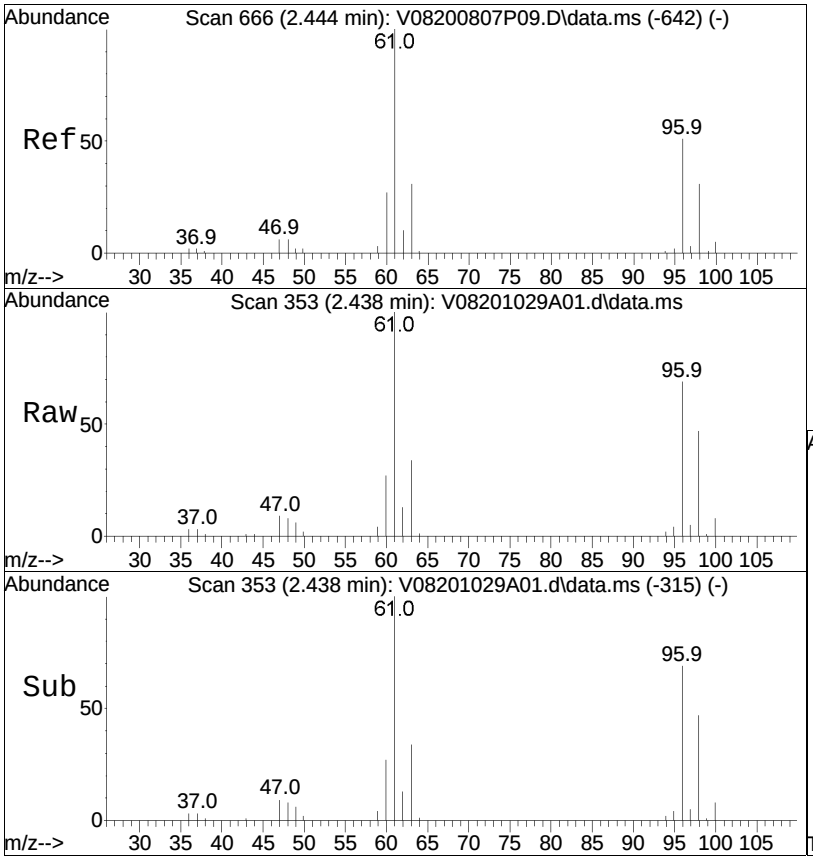


#17
Acetone
Concen: 8.32 ug/L M1
RT: 2.343 min Scan# 335
Delta R.T. -0.006 min
Lab File: V08201029A01.d
Acq: 29 Oct 2020 8:10 am

Tgt Ion: 43 Resp: 6963

Ion	Ratio	Lower	Upper
43	100		
58	25.4	24.2	36.4

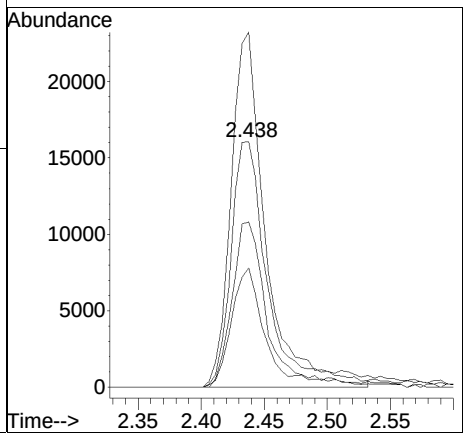


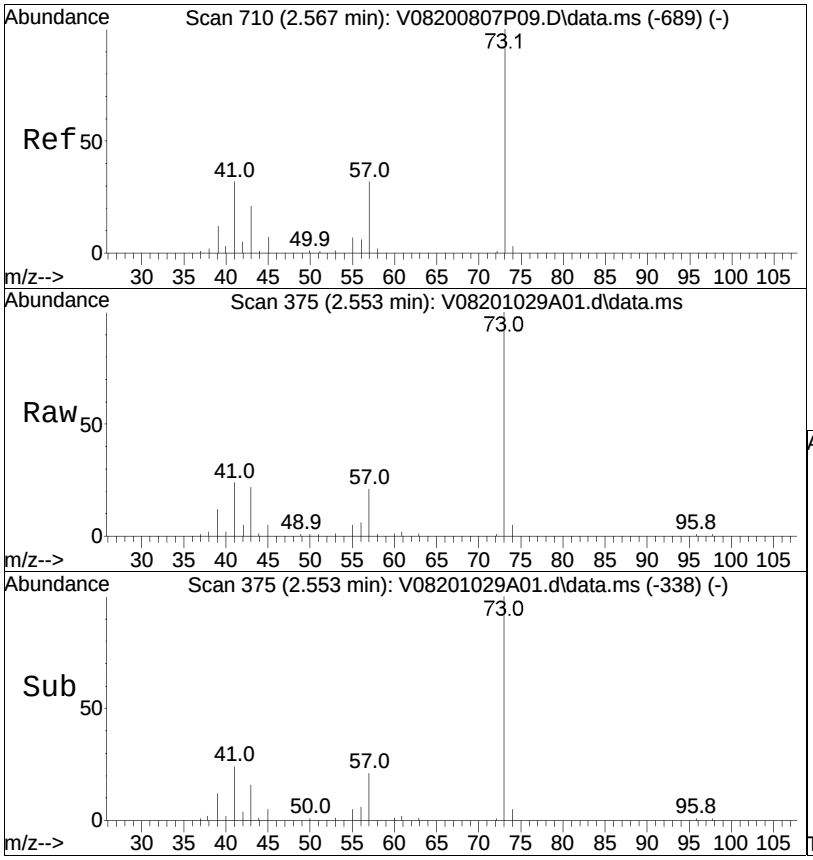


#18
trans-1,2-Dichloroethene
Concen: 9.32 ug/L
RT: 2.438 min Scan# 353
Delta R.T. -0.000 min
Lab File: V08201029A01.d
Acq: 29 Oct 2020 8:10 am

Tgt Ion: 96 Resp: 32828

Ion	Ratio	Lower	Upper
96	100		
61	132.6	124.0	257.6
98	64.4	41.2	85.6
63	46.1	38.4	79.7

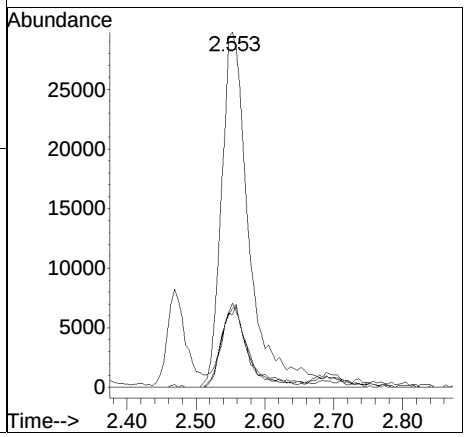


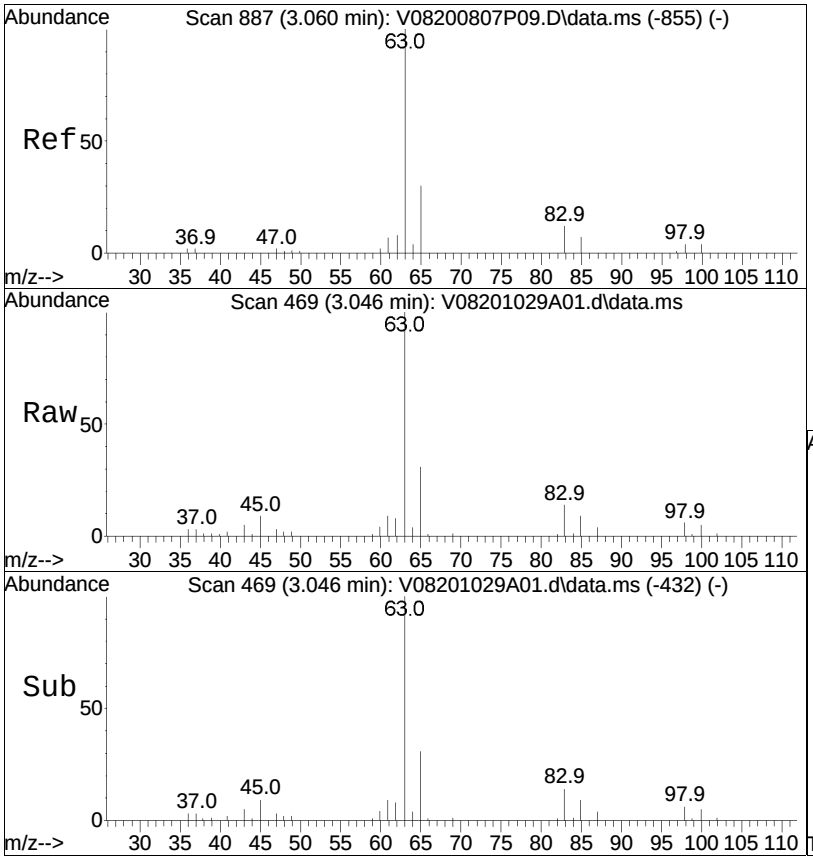


#20
Methyl tert-butyl ether
Concen: 8.60 ug/L M1
RT: 2.553 min Scan# 375
Delta R.T. -0.005 min
Lab File: V08201029A01.d
Acq: 29 Oct 2020 8:10 am

Tgt Ion: 73 Resp: 85778

Ion	Ratio	Lower	Upper
73	100		
57	20.7	17.5	36.3
43	19.0	15.3	31.9
41	21.3	15.3	31.7

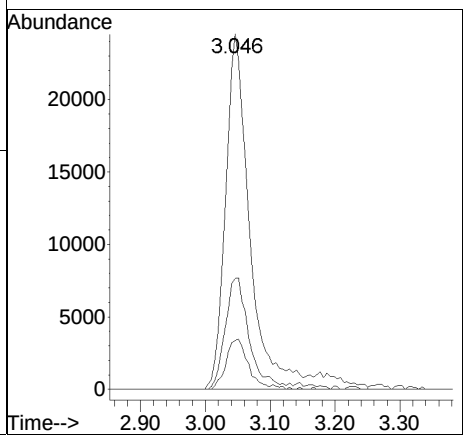


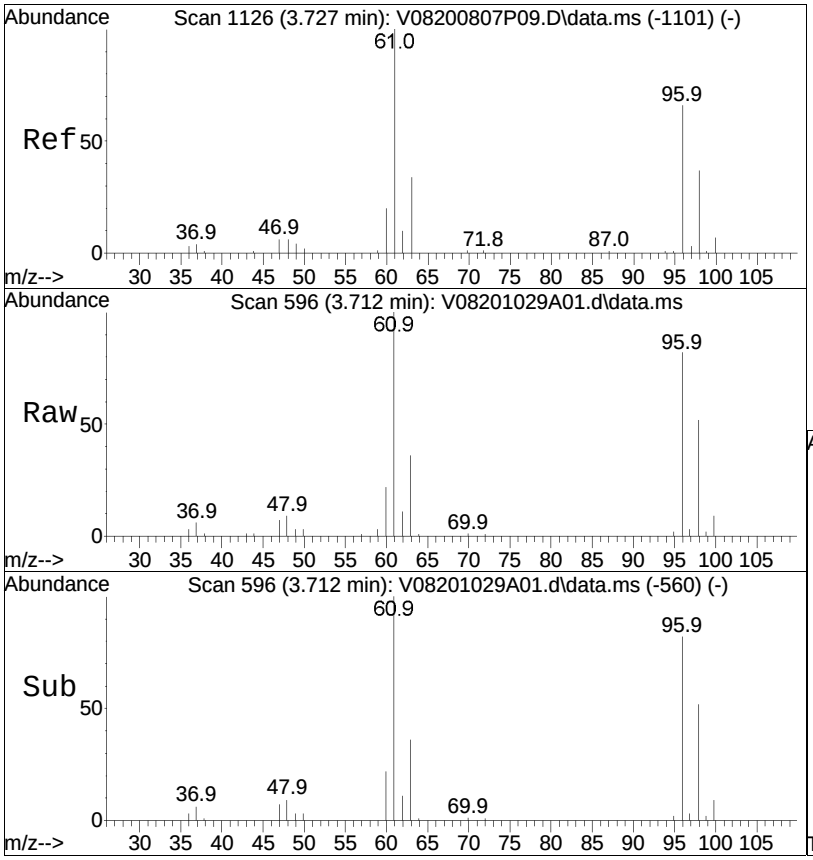


#23
1,1-Dichloroethane
Concen: 10.04 ug/L M1
RT: 3.046 min Scan# 469
Delta R.T. -0.005 min
Lab File: V08201029A01.d
Acq: 29 Oct 2020 8:10 am

Tgt Ion: 63 Resp: 67263

Ion	Ratio	Lower	Upper
63	100		
65	29.4	11.0	51.0
83	12.1	0.0	31.8

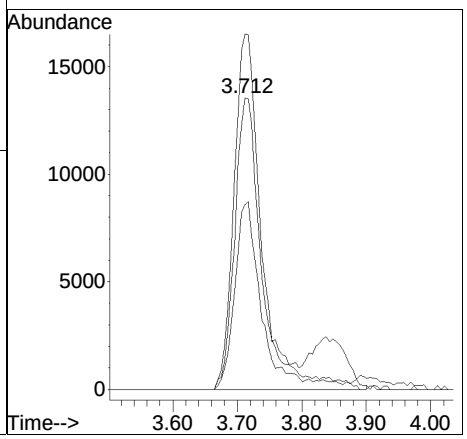


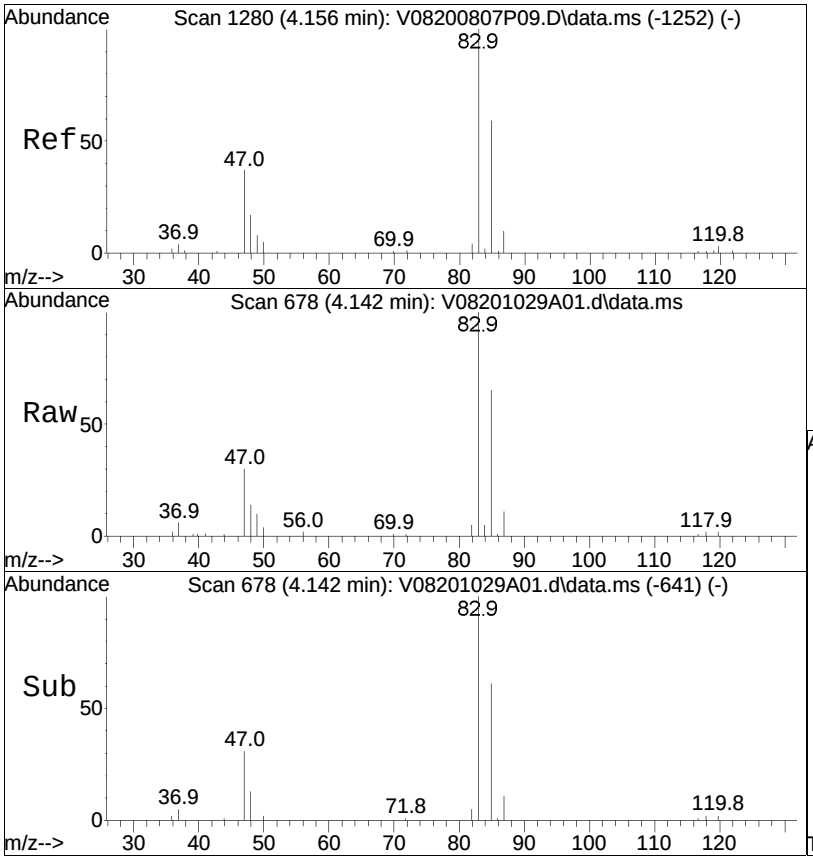


#28
cis-1,2-Dichloroethene
Concen: 9.26 ug/L M1
RT: 3.712 min Scan# 596
Delta R.T. -0.011 min
Lab File: V08201029A01.d
Acq: 29 Oct 2020 8:10 am

Tgt Ion: 96 Resp: 40613

Ion	Ratio	Lower	Upper
96	100		
61	116.6	149.4	224.2#
98	60.2	53.4	80.2

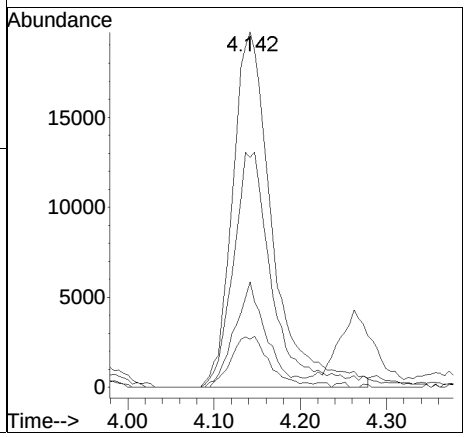


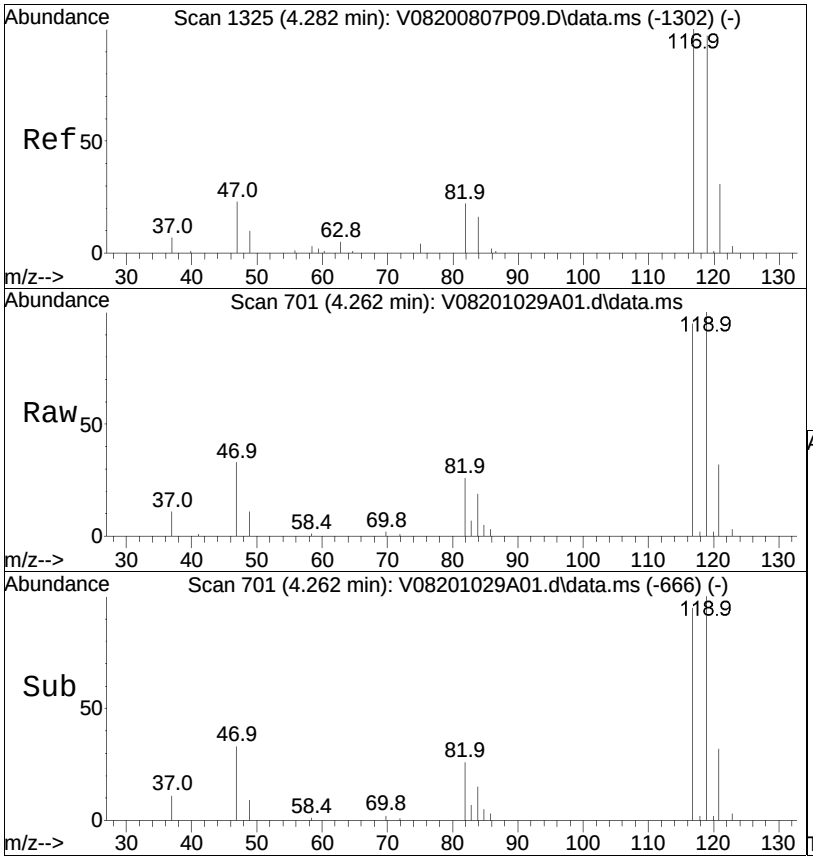


#32
Chloroform
Concen: 9.17 ug/L
RT: 4.142 min Scan# 678
Delta R.T. -0.005 min
Lab File: V08201029A01.d
Acq: 29 Oct 2020 8:10 am

Tgt Ion: 83 Resp: 63718

Ion	Ratio	Lower	Upper
83	100		
85	64.1	41.5	86.1
47	24.1	19.0	39.4
48	13.9	9.9	20.5

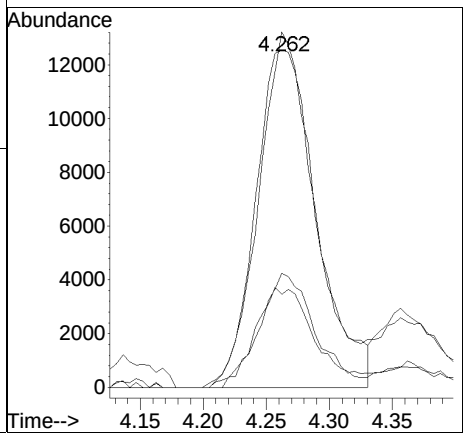


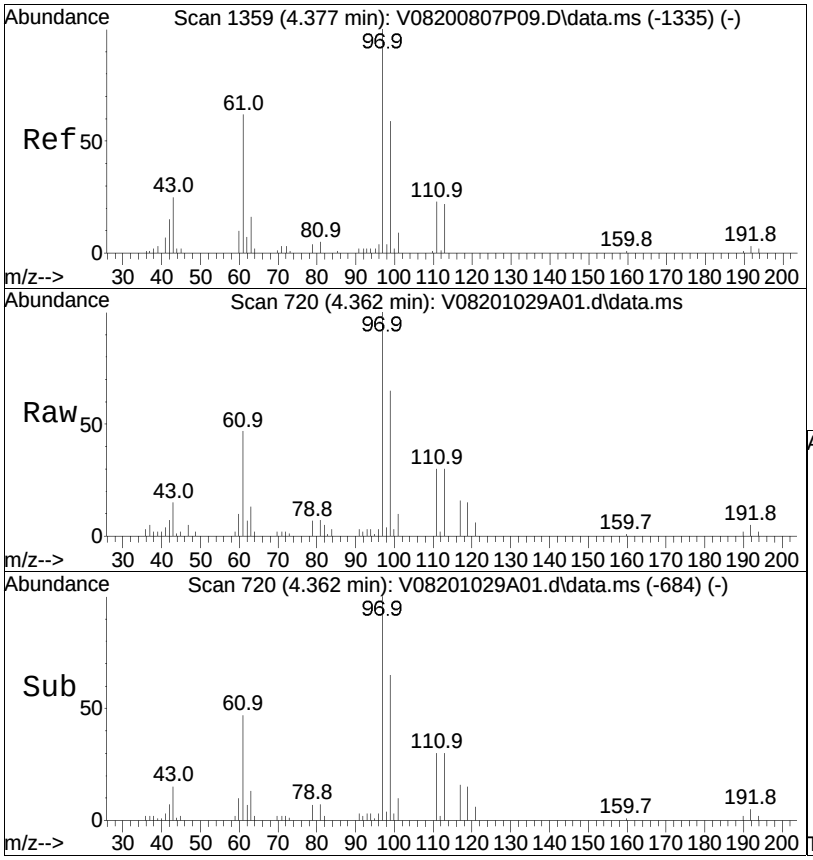


#34
Carbon tetrachloride
Concen: 9.09 ug/L
RT: 4.262 min Scan# 701
Delta R.T. -0.016 min
Lab File: V08201029A01.d
Acq: 29 Oct 2020 8:10 am

Tgt Ion:117 Resp: 42240

Ion	Ratio	Lower	Upper
117	100		
119	96.4	62.4	129.6
121	31.5	19.5	40.5
82	28.8	17.0	35.4

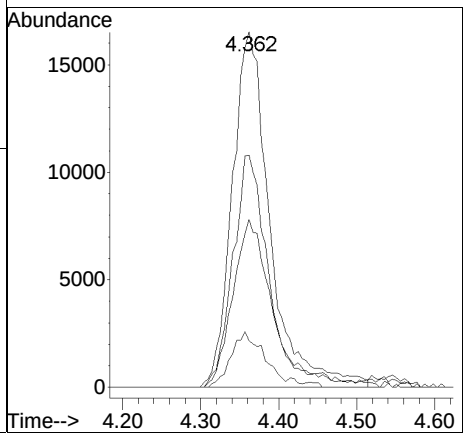


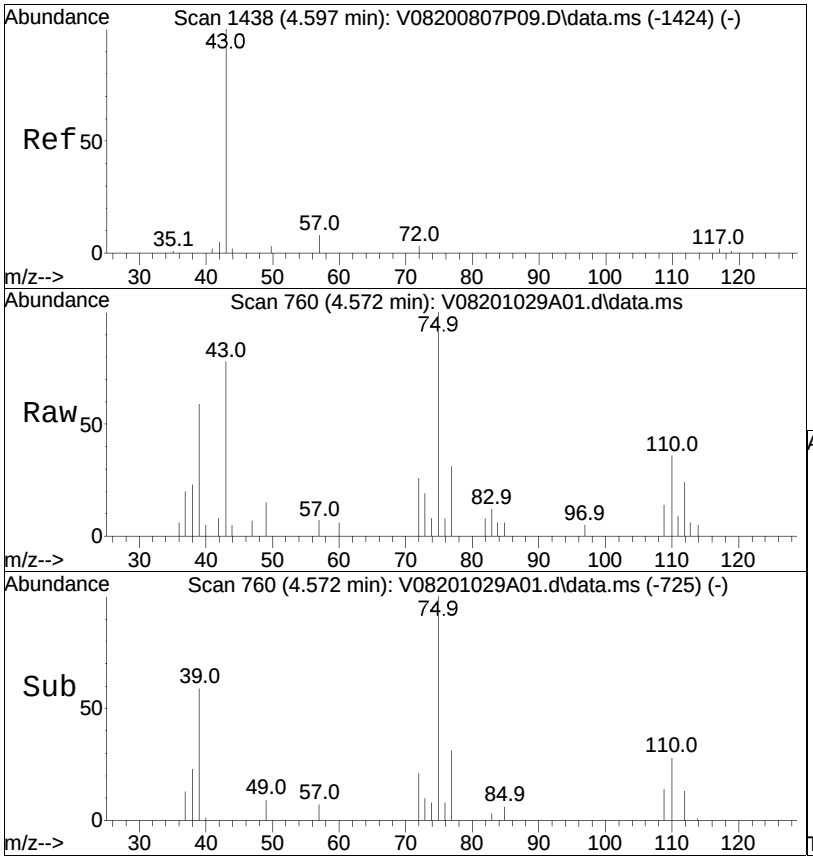


#37
1,1,1-Trichloroethane
Concen: 9.39 ug/L
RT: 4.362 min Scan# 720
Delta R.T. -0.011 min
Lab File: V08201029A01.d
Acq: 29 Oct 2020 8:10 am

Tgt Ion: 97 Resp: 56009

Ion	Ratio	Lower	Upper
97	100		
99	60.5	40.7	84.5
61	49.1	35.4	73.4
63	13.5	5.0	10.4#

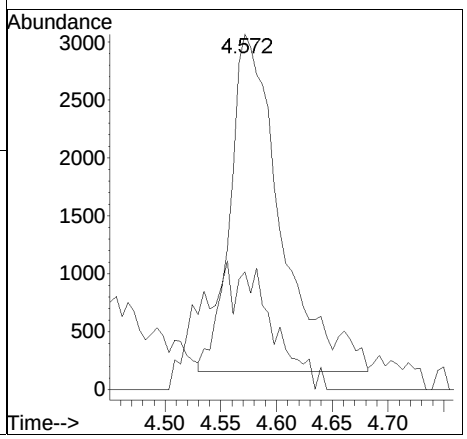


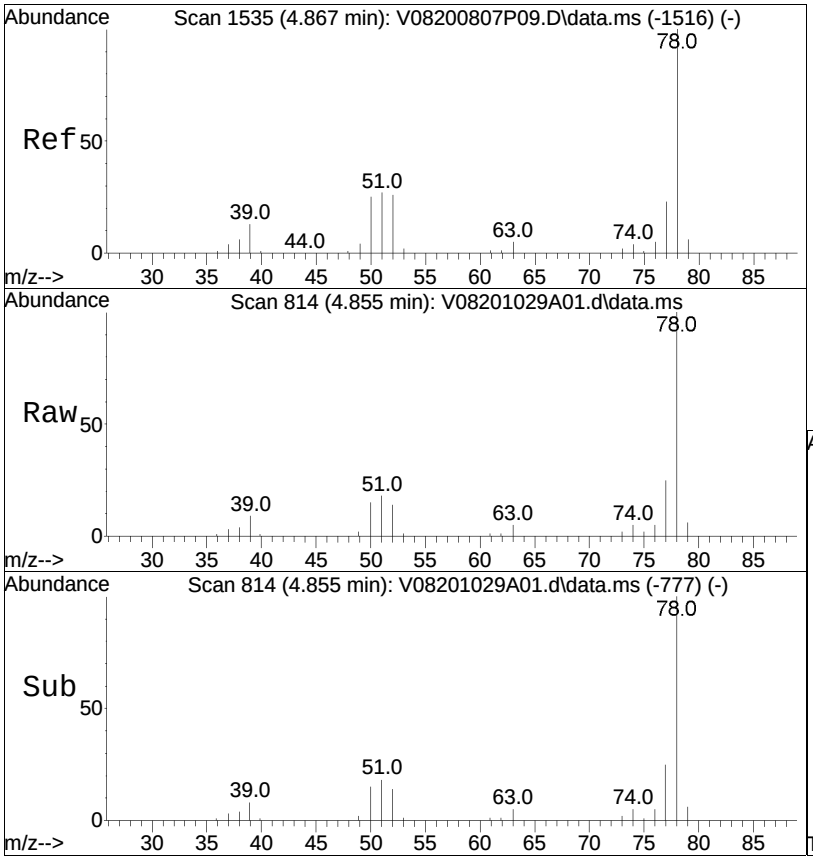


#39
2-Butanone
Concen: 6.57 ug/L M1
RT: 4.572 min Scan# 760
Delta R.T. -0.015 min
Lab File: V08201029A01.d
Acq: 29 Oct 2020 8:10 am

Tgt Ion: 43 Resp: 9195

Ion	Ratio	Lower	Upper
43	100		
72	3.2	10.9	16.3#

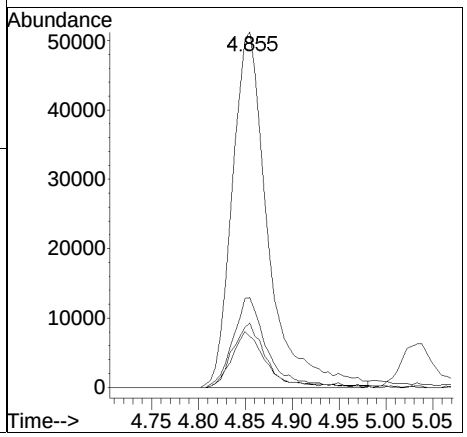


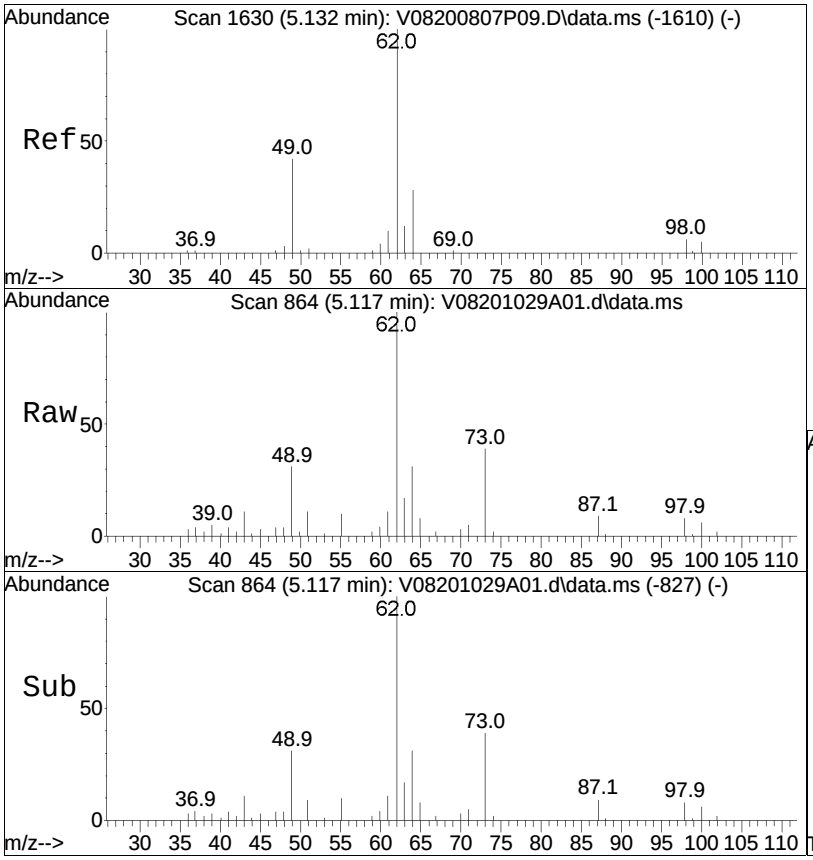


#41
Benzene
Concen: 9.17 ug/L
RT: 4.855 min Scan# 814
Delta R.T. -0.005 min
Lab File: V08201029A01.d
Acq: 29 Oct 2020 8:10 am

Tgt Ion: 78 Resp: 136202

Ion	Ratio	Lower	Upper
78	100		
77	23.7	15.7	32.7
51	16.6	16.0	33.2
52	14.6	15.3	31.9#

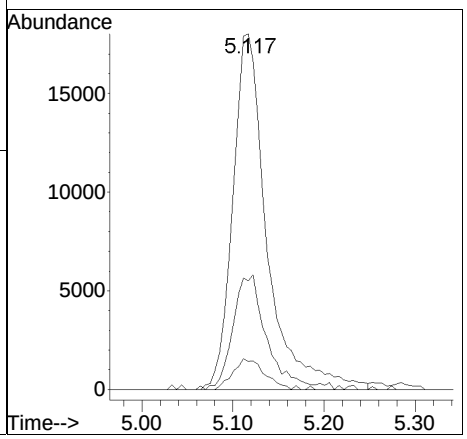


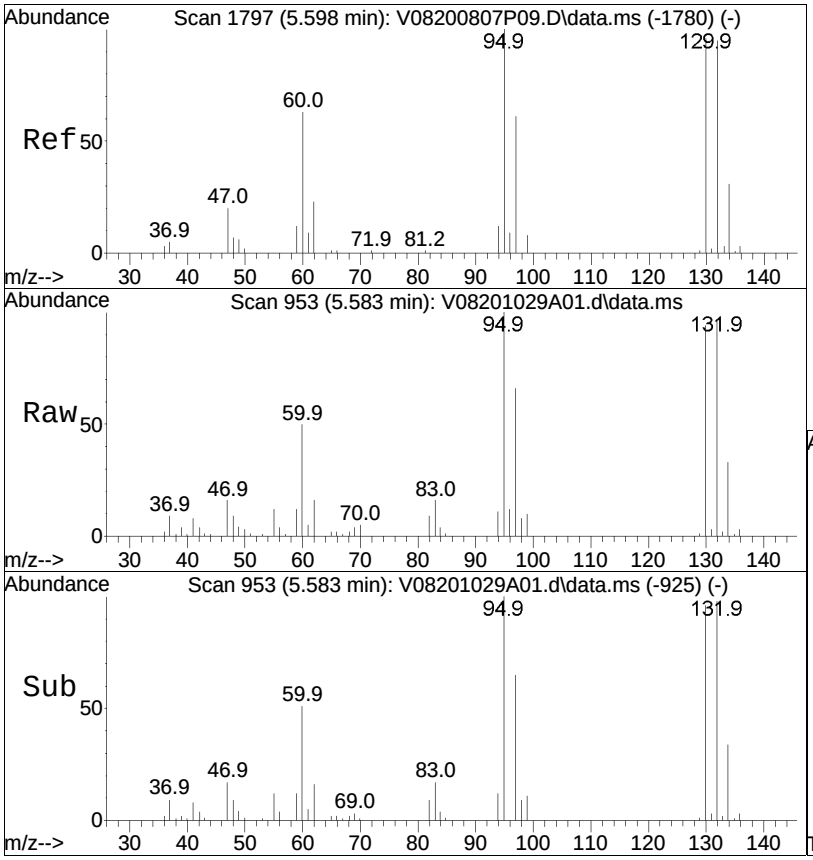


#44
1,2-Dichloroethane
Concen: 9.25 ug/L
RT: 5.117 min Scan# 864
Delta R.T. -0.005 min
Lab File: V08201029A01.d
Acq: 29 Oct 2020 8:10 am

Tgt Ion: 62 Resp: 47218

Ion	Ratio	Lower	Upper
62	100		
64	31.4	11.2	51.2
98	7.9	0.0	26.1

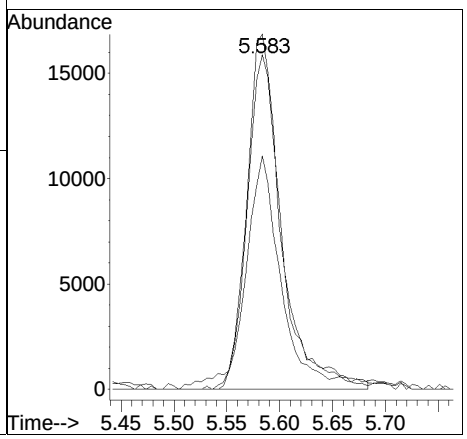


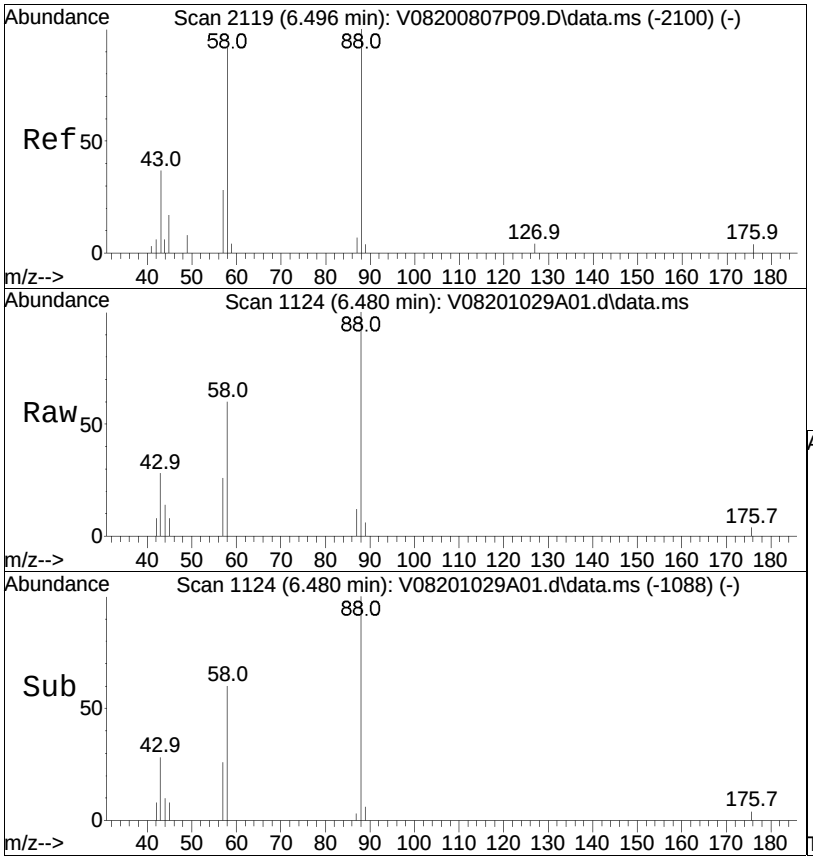


#48
Trichloroethene
Concen: 9.50 ug/L
RT: 5.583 min Scan# 953
Delta R.T. -0.005 min
Lab File: V08201029A01.d
Acq: 29 Oct 2020 8:10 am

Tgt Ion: 95 Resp: 38315

Ion	Ratio	Lower	Upper
95	100		
97	68.6	55.5	83.3
130	96.4	76.6	115.0

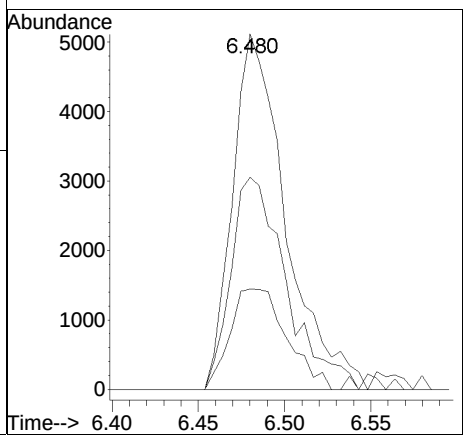


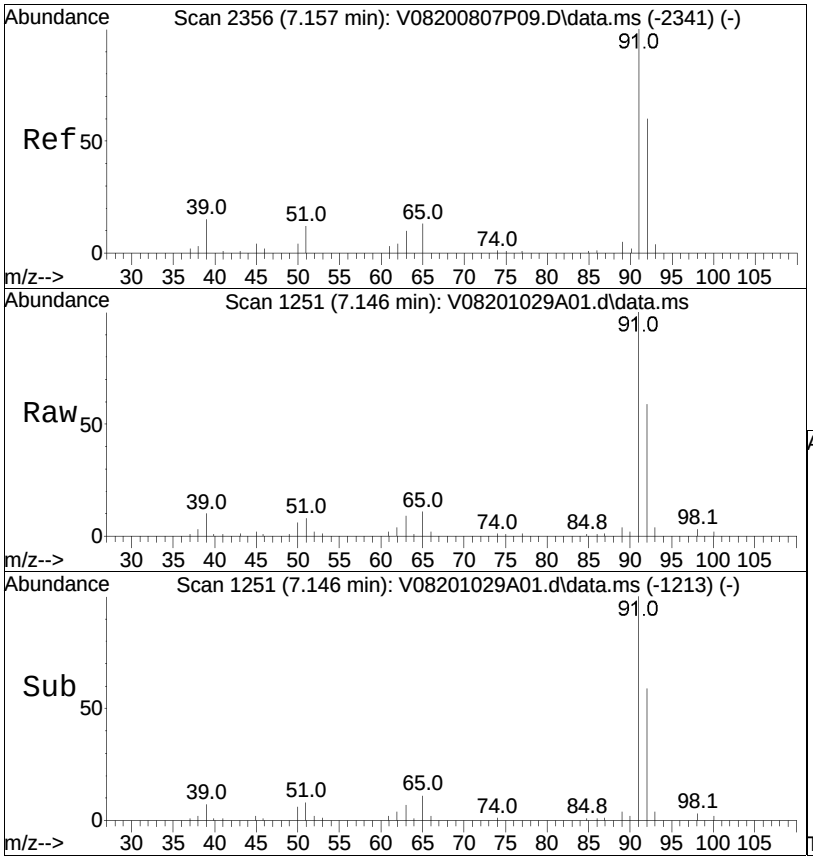


#57
1,4-Dioxane
Concen: 328.86 ug/L
RT: 6.480 min Scan# 1124
Delta R.T. -0.011 min
Lab File: V08201029A01.d
Acq: 29 Oct 2020 8:10 am

Tgt Ion: 88 Resp: 10984

Ion	Ratio	Lower	Upper
88	100		
58	62.1	76.7	115.1#
43	30.0	36.2	54.2#

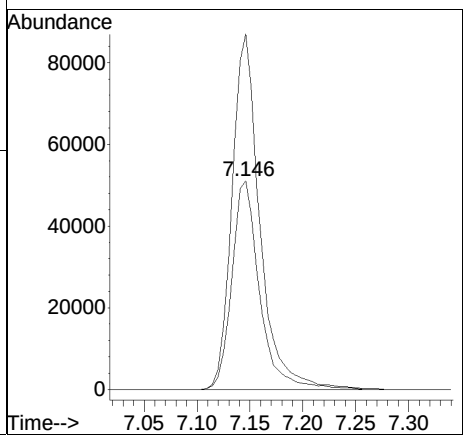


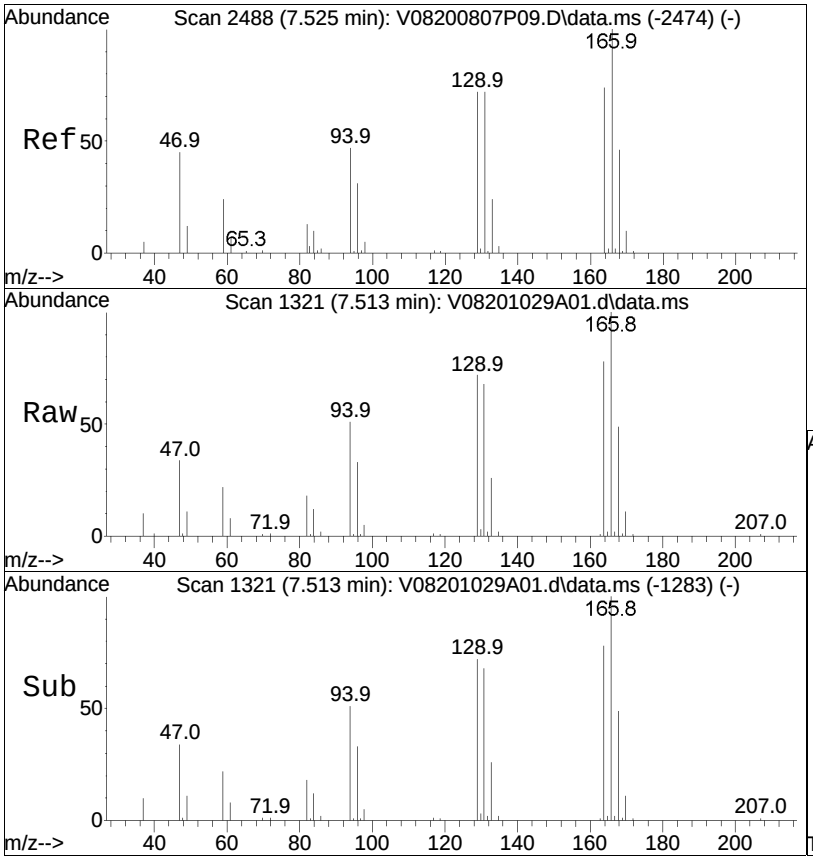


#61
Toluene
Concen: 10.61 ug/L
RT: 7.146 min Scan# 1251
Delta R.T. -0.000 min
Lab File: V08201029A01.d
Acq: 29 Oct 2020 8:10 am

Tgt Ion: 92 Resp: 93146

Ion	Ratio	Lower	Upper
92	100		
91	170.9	139.8	209.6

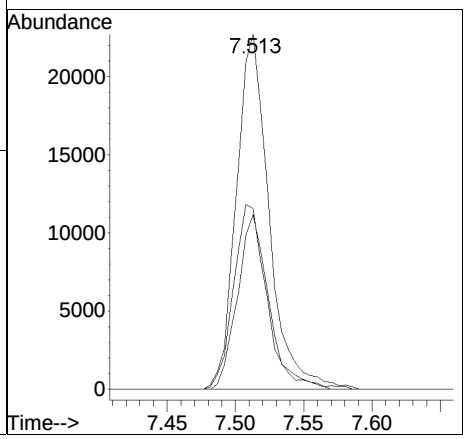


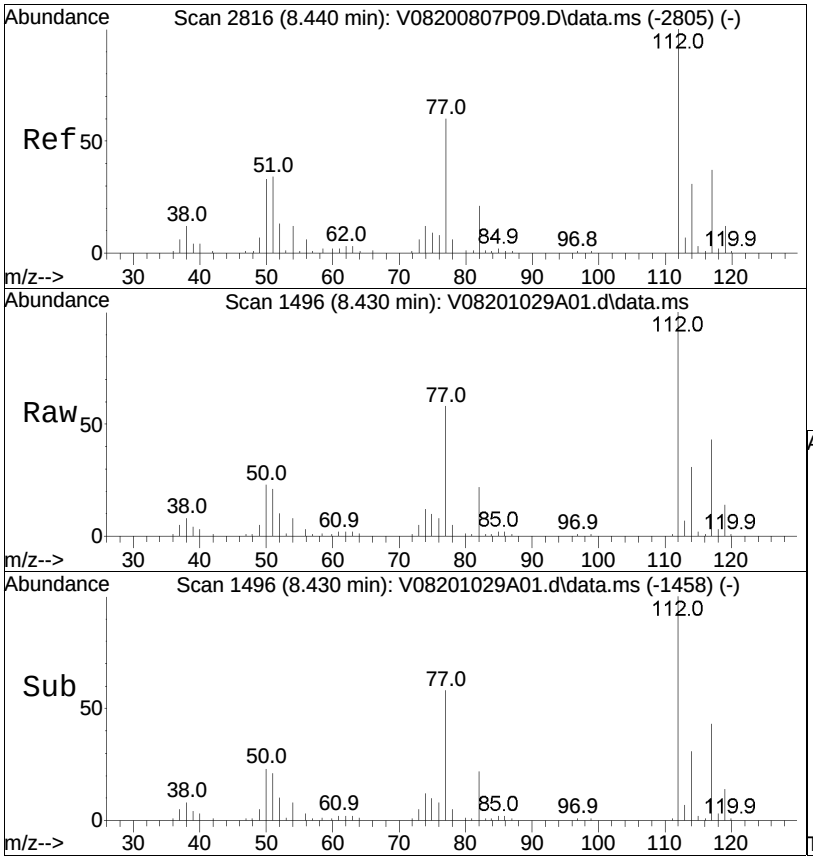


#63
Tetrachloroethene
Concen: 6.85 ug/L
RT: 7.513 min Scan# 1321
Delta R.T. -0.000 min
Lab File: V08201029A01.d
Acq: 29 Oct 2020 8:10 am

Tgt Ion:166 Resp: 38036

Ion	Ratio	Lower	Upper
166	100		
168	47.5	28.2	68.2
94	52.8	38.4	78.4

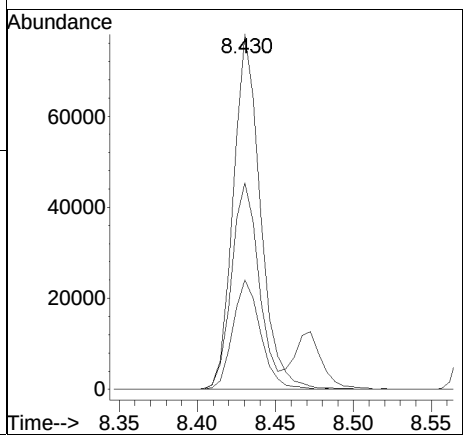


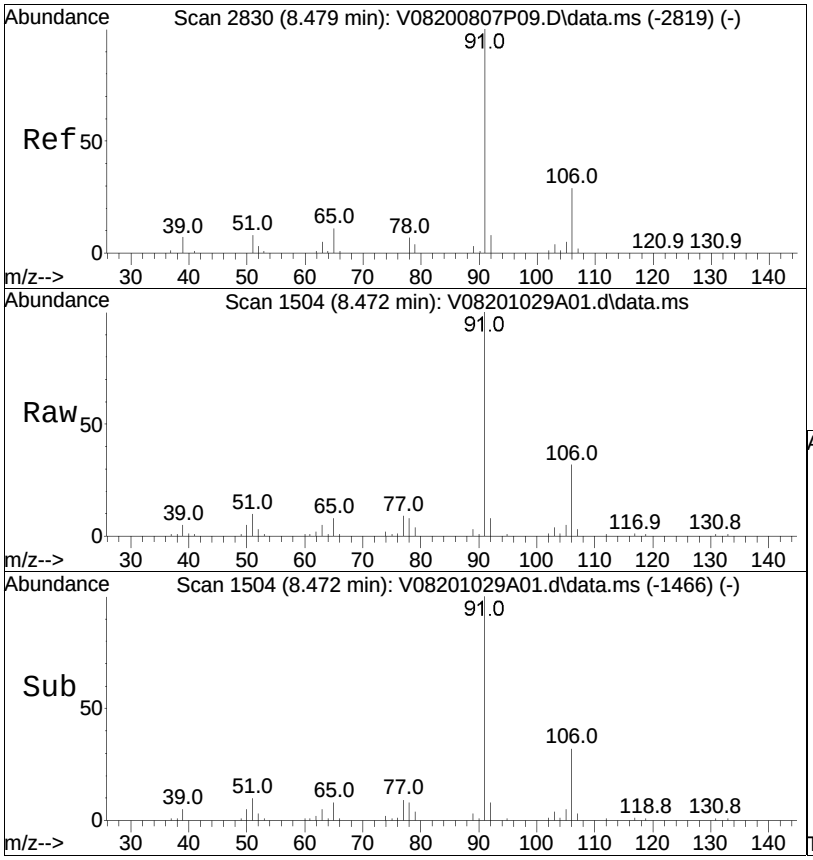


#73
Chlorobenzene
Concen: 10.03 ug/L
RT: 8.430 min Scan# 1496
Delta R.T. -0.000 min
Lab File: V08201029A01.d
Acq: 29 Oct 2020 8:10 am

Tgt Ion:112 Resp: 94386

Ion	Ratio	Lower	Upper
112	100		
77	58.6	55.4	83.0
114	31.6	25.4	38.2

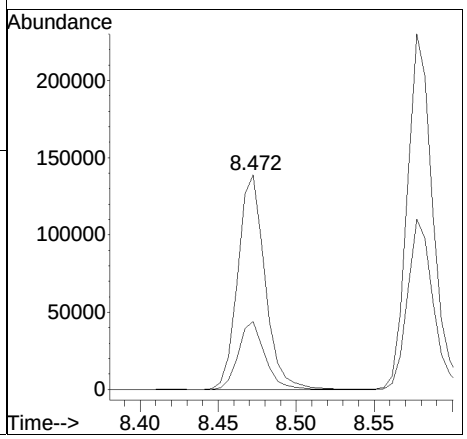


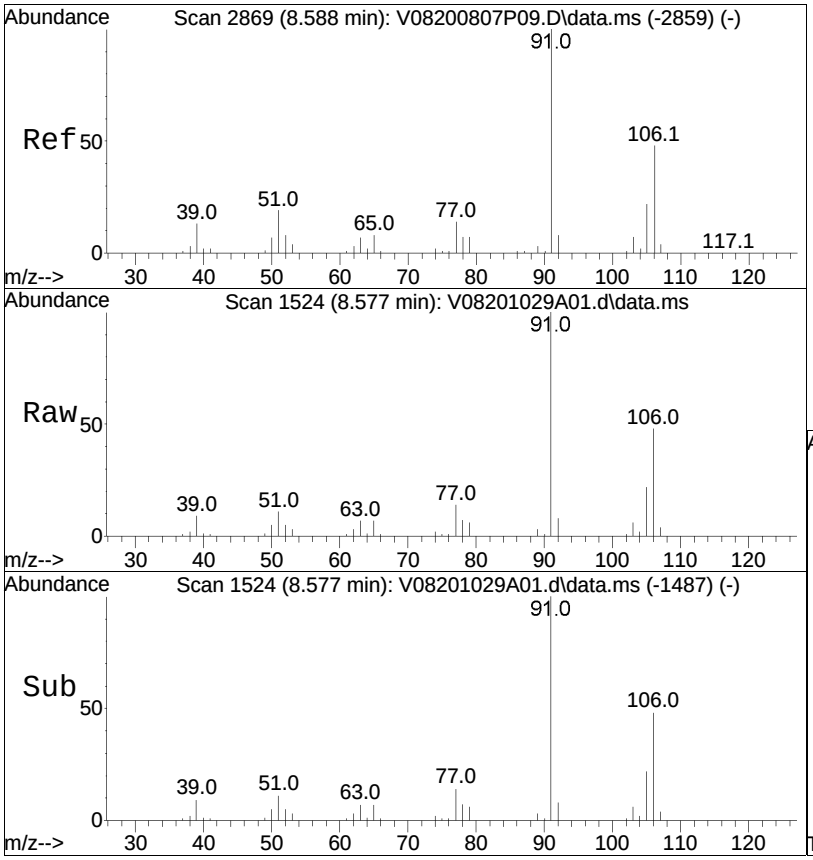


#74
Ethylbenzene
Concen: 10.17 ug/L
RT: 8.472 min Scan# 1504
Delta R.T. -0.000 min
Lab File: V08201029A01.d
Acq: 29 Oct 2020 8:10 am

Tgt Ion: 91 Resp: 168338

Ion	Ratio	Lower	Upper
91	100		
106	30.9	24.3	36.5

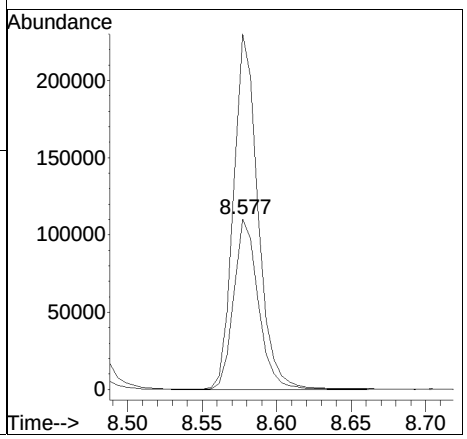


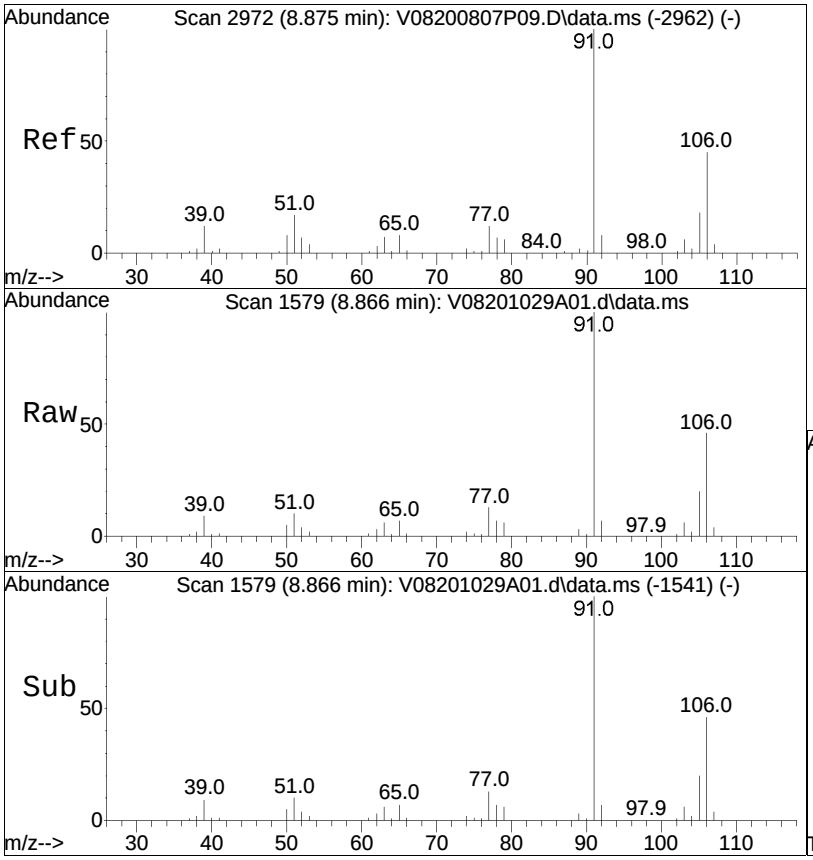


#76
p/m Xylene
Concen: 19.99 ug/L
RT: 8.577 min Scan# 1524
Delta R.T. -0.005 min
Lab File: V08201029A01.d
Acq: 29 Oct 2020 8:10 am

Tgt Ion:106 Resp: 126693

Ion	Ratio	Lower	Upper
106	100		
91	207.2	166.4	249.6

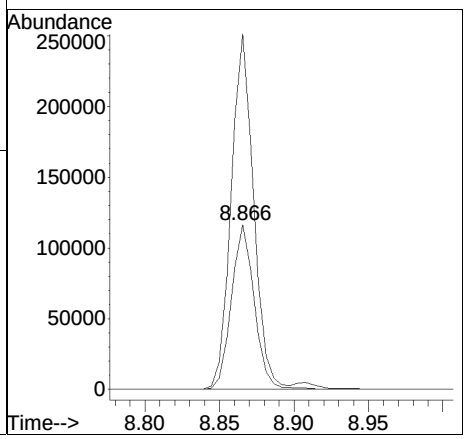


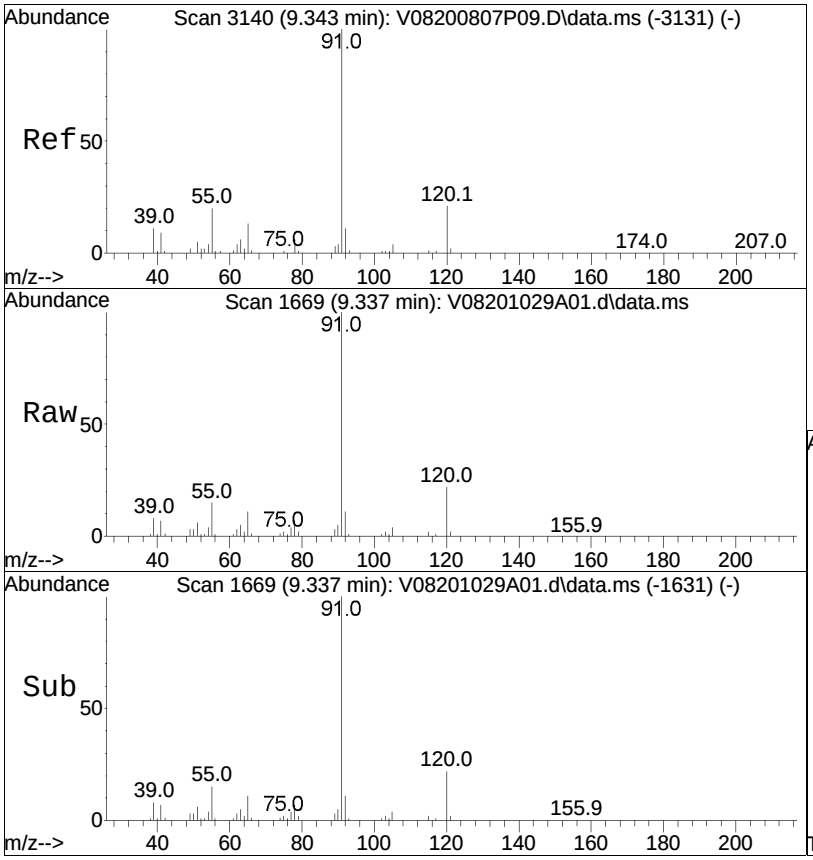


#77
o Xylene
Concen: 21.09 ug/L
RT: 8.866 min Scan# 1579
Delta R.T. -0.000 min
Lab File: V08201029A01.d
Acq: 29 Oct 2020 8:10 am

Tgt Ion:106 Resp: 124734

Ion	Ratio	Lower	Upper
106	100		
91	210.5	182.6	273.8

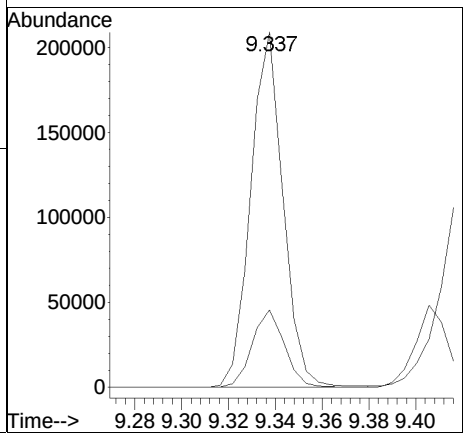


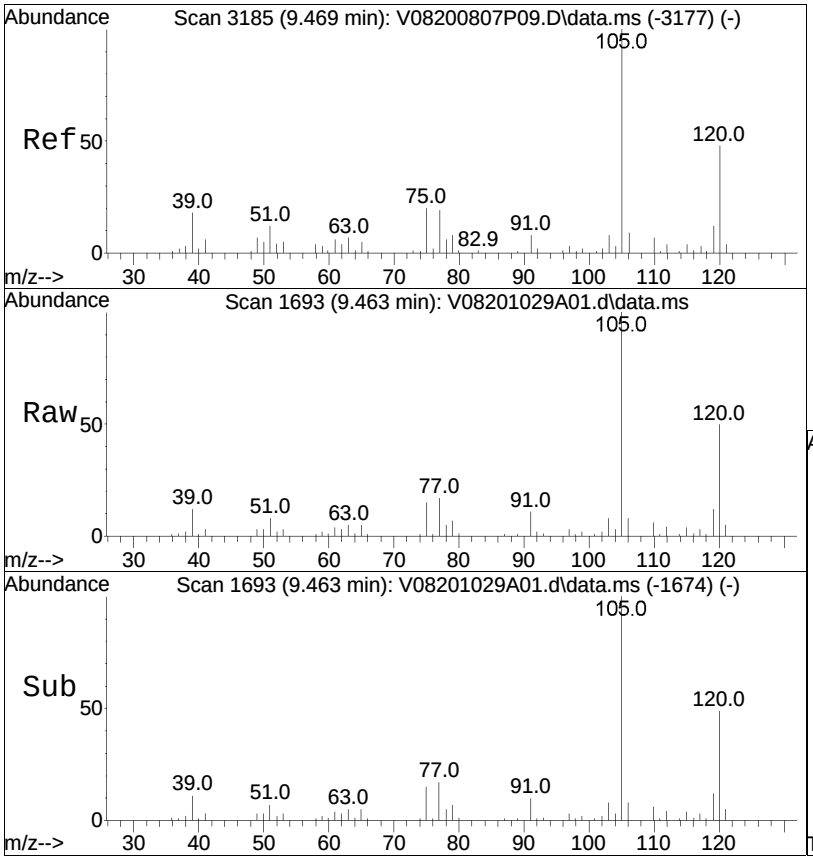


#85
n-Propylbenzene
Concen: 11.25 ug/L
RT: 9.337 min Scan# 1669
Delta R.T. -0.000 min
Lab File: V08201029A01.d
Acq: 29 Oct 2020 8:10 am

Tgt Ion: 91 Resp: 200580

Ion	Ratio	Lower	Upper
91	100		
120	21.9	17.0	25.6

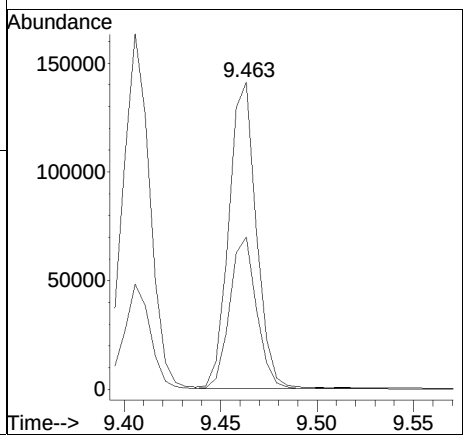


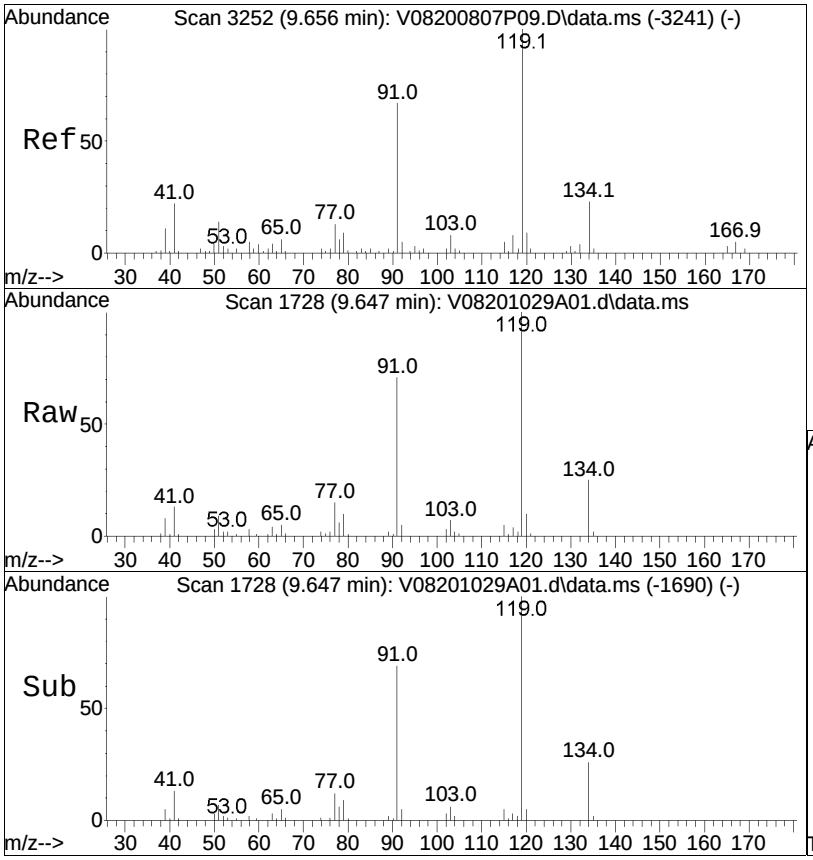


#90
1,3,5-Trimethylbenzene
Concen: 11.09 ug/L
RT: 9.463 min Scan# 1693
Delta R.T. -0.000 min
Lab File: V08201029A01.d
Acq: 29 Oct 2020 8:10 am

Tgt Ion:105 Resp: 139887

Ion	Ratio	Lower	Upper
105	100		
120	48.5	34.8	52.2

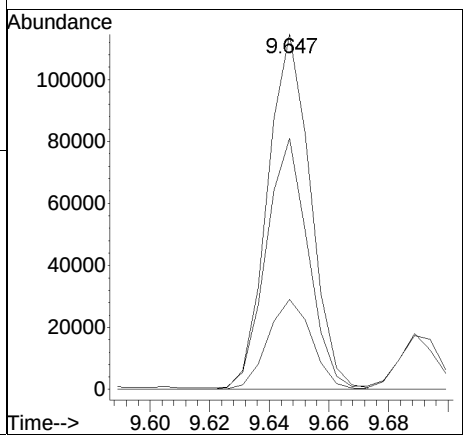


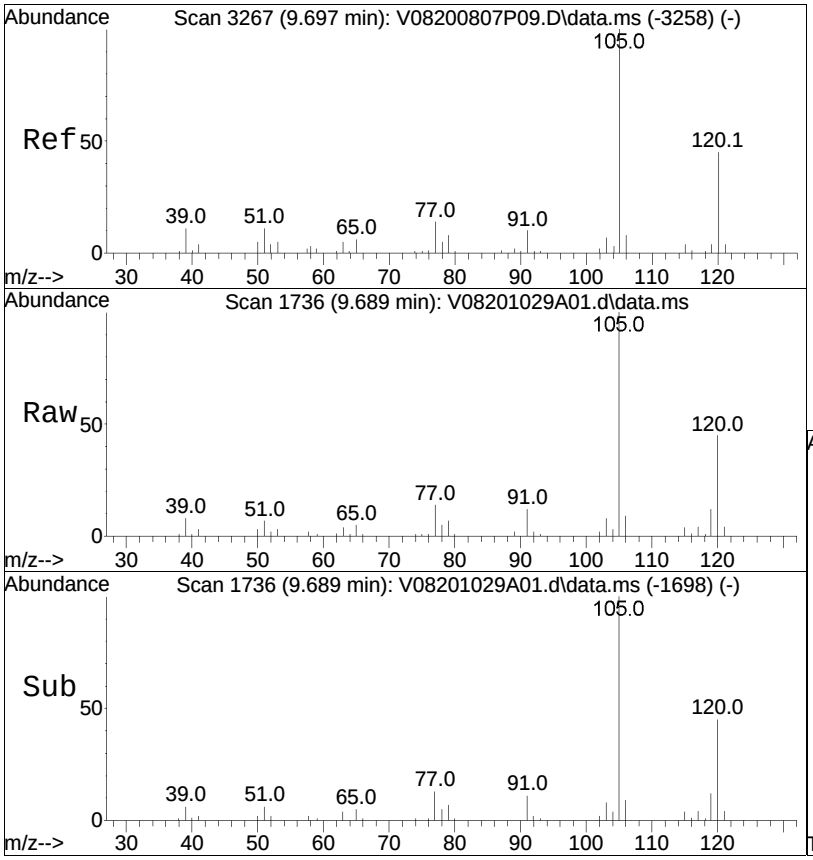


#94
tert-Butylbenzene
Concen: 10.17 ug/L
RT: 9.647 min Scan# 1728
Delta R.T. -0.000 min
Lab File: V08201029A01.d
Acq: 29 Oct 2020 8:10 am

Tgt Ion:119 Resp: 114595

Ion	Ratio	Lower	Upper
119	100		
91	68.8	51.4	77.2
134	26.0	18.3	27.5

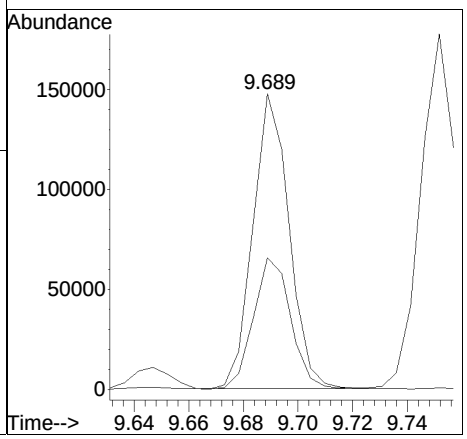


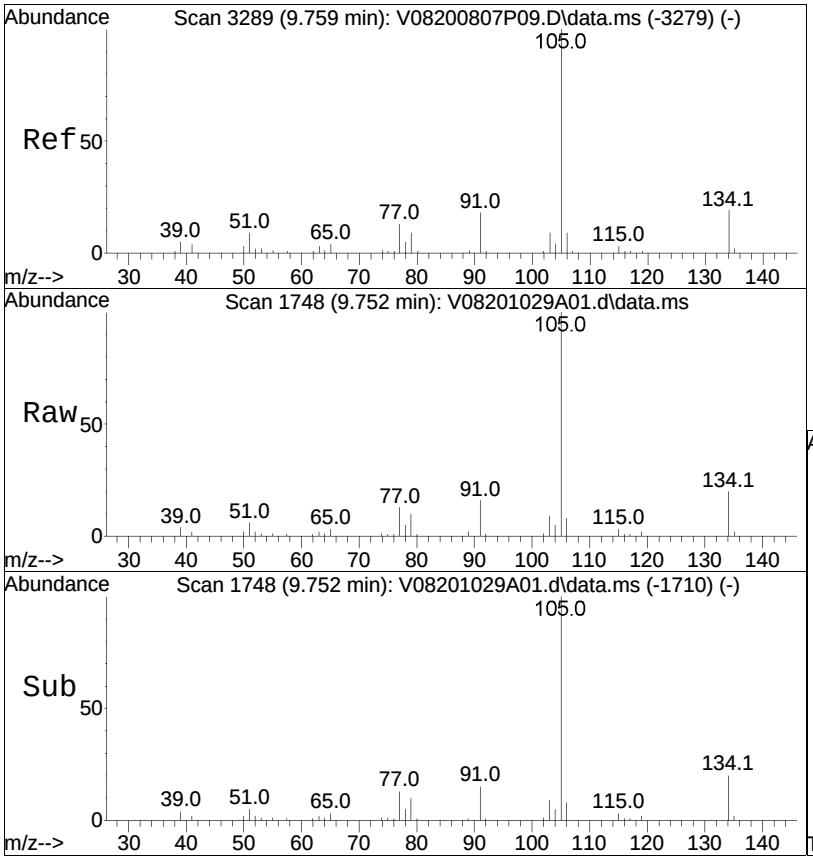


#97
1,2,4-Trimethylbenzene
Concen: 10.94 ug/L
RT: 9.689 min Scan# 1736
Delta R.T. -0.000 min
Lab File: V08201029A01.d
Acq: 29 Oct 2020 8:10 am

Tgt Ion:105 Resp: 136008

Ion	Ratio	Lower	Upper
105	100		
120	46.0	33.4	50.0

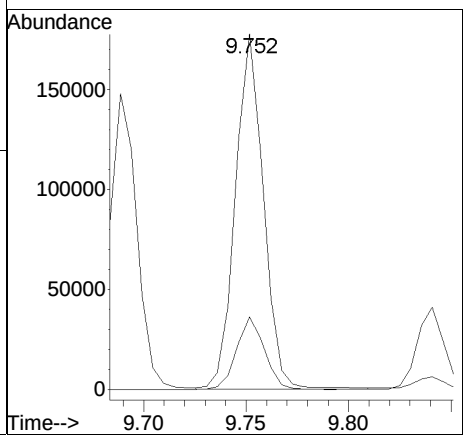


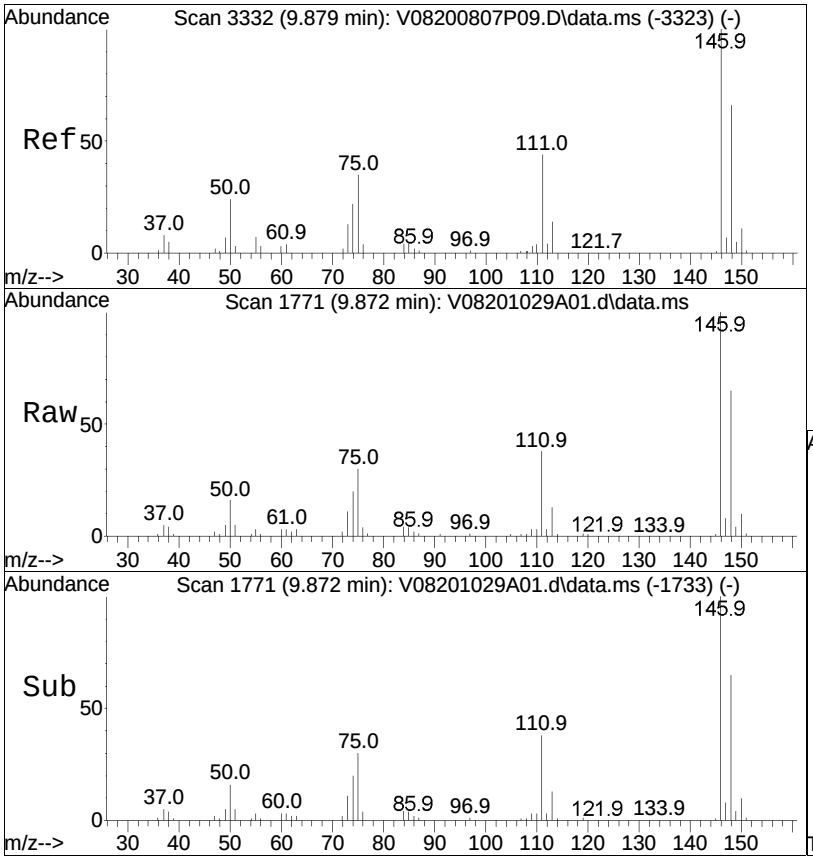


#98
sec-Butylbenzene
Concen: 11.51 ug/L
RT: 9.752 min Scan# 1748
Delta R.T. -0.000 min
Lab File: V08201029A01.d
Acq: 29 Oct 2020 8:10 am

Tgt Ion:105 Resp: 168727

Ion	Ratio	Lower	Upper
105	100		
134	20.2	12.5	26.1

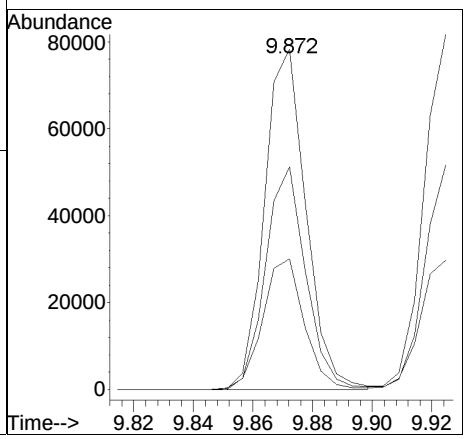


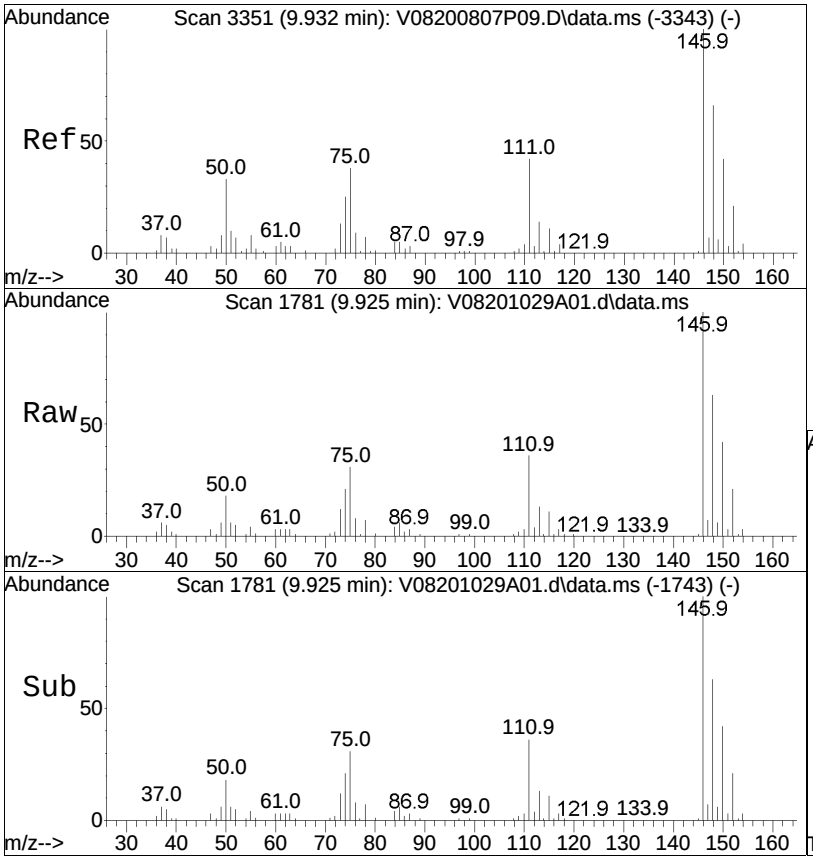


#100
1,3-Dichlorobenzene
Concen: 10.69 ug/L
RT: 9.872 min Scan# 1771
Delta R.T. -0.000 min
Lab File: V08201029A01.d
Acq: 29 Oct 2020 8:10 am

Tgt Ion:146 Resp: 75561

Ion	Ratio	Lower	Upper
146	100		
111	38.7	27.5	57.1
148	63.7	41.9	86.9

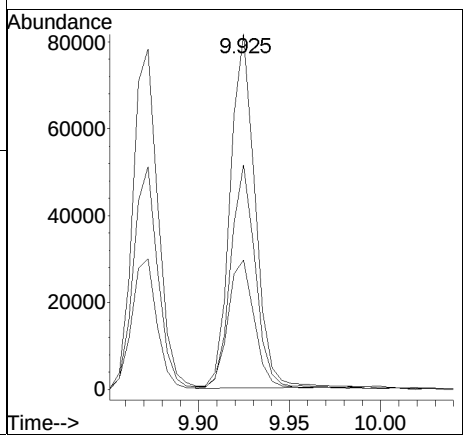


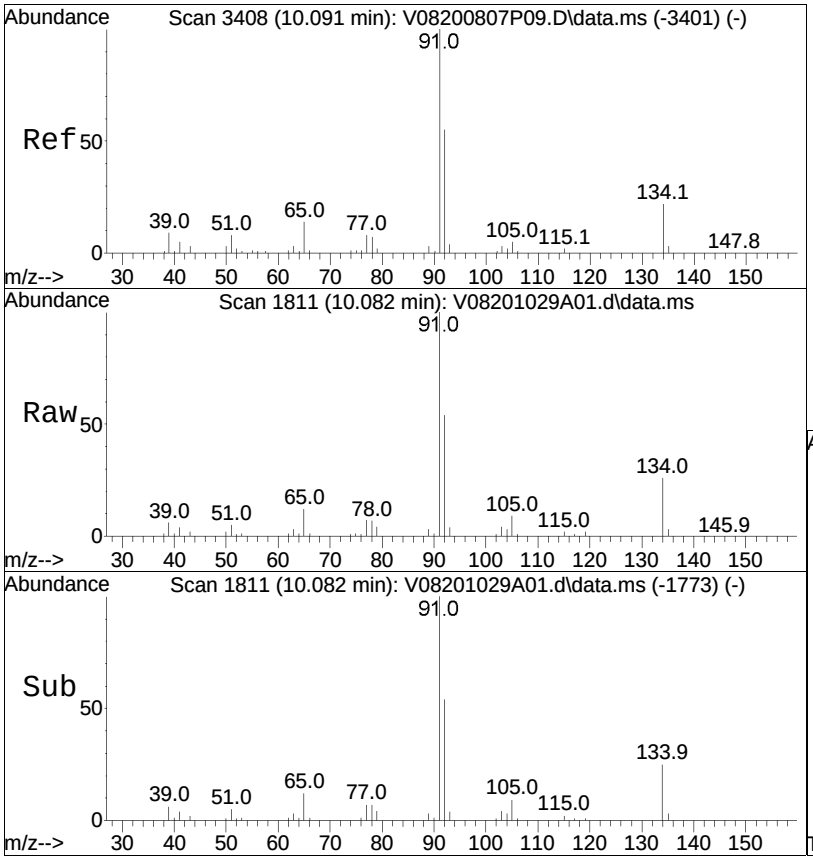


#101
1,4-Dichlorobenzene
Concen: 10.63 ug/L
RT: 9.925 min Scan# 1781
Delta R.T. -0.000 min
Lab File: V08201029A01.d
Acq: 29 Oct 2020 8:10 am

Tgt Ion:146 Resp: 77800

Ion	Ratio	Lower	Upper
146	100		
111	38.2	32.3	48.5
148	62.4	49.9	74.9

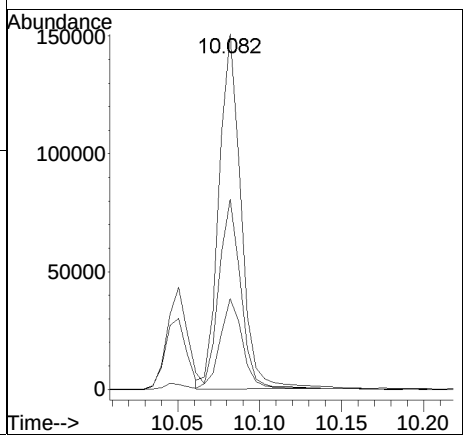


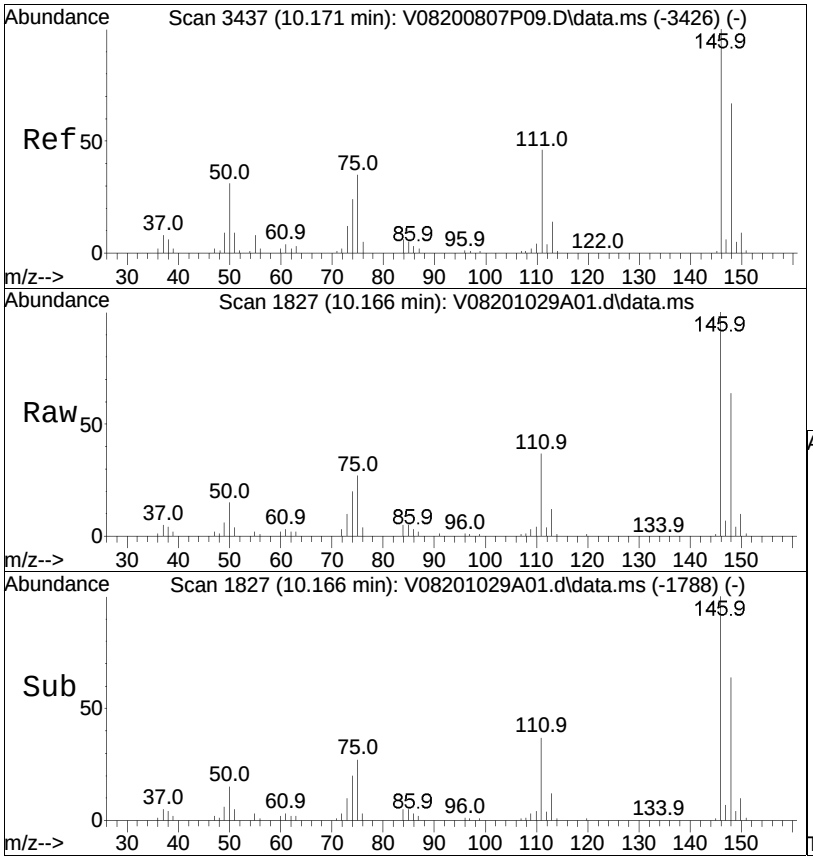


#103
n-Butylbenzene
Concen: 11.30 ug/L
RT: 10.082 min Scan# 1811
Delta R.T. -0.000 min
Lab File: V08201029A01.d
Acq: 29 Oct 2020 8:10 am

Tgt Ion: 91 Resp: 142058

Ion	Ratio	Lower	Upper
91	100		
92	53.3	43.0	64.4
134	26.6	19.6	29.4

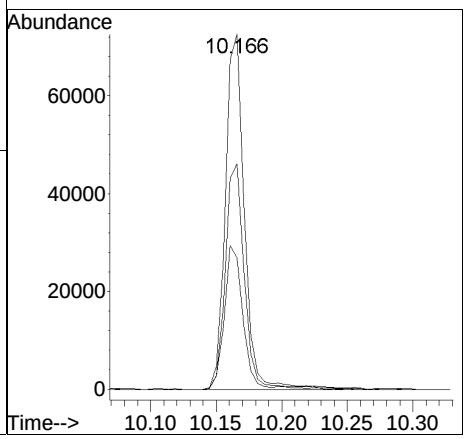




#104
1,2-Dichlorobenzene
Concen: 10.74 ug/L
RT: 10.166 min Scan# 1827
Delta R.T. 0.005 min
Lab File: V08201029A01.d
Acq: 29 Oct 2020 8:10 am

Tgt Ion:146 Resp: 73532

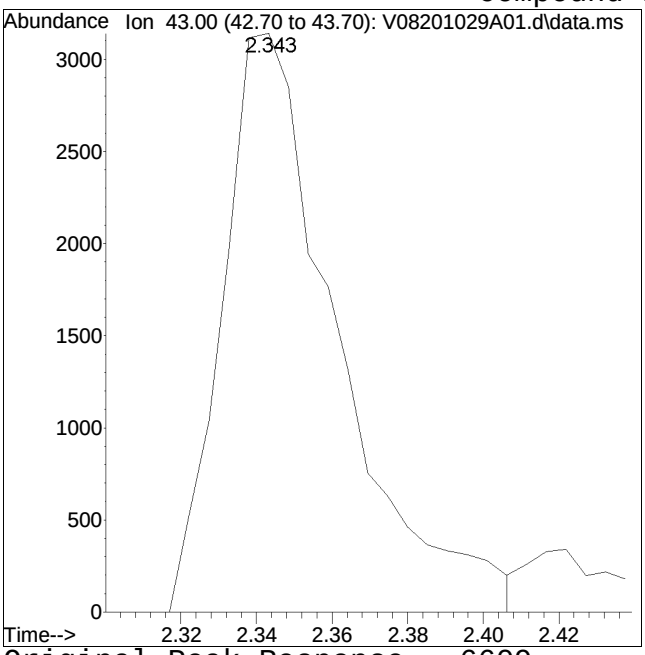
Ion	Ratio	Lower	Upper
146	100		
111	38.8	28.3	58.7
148	64.0	42.3	87.8



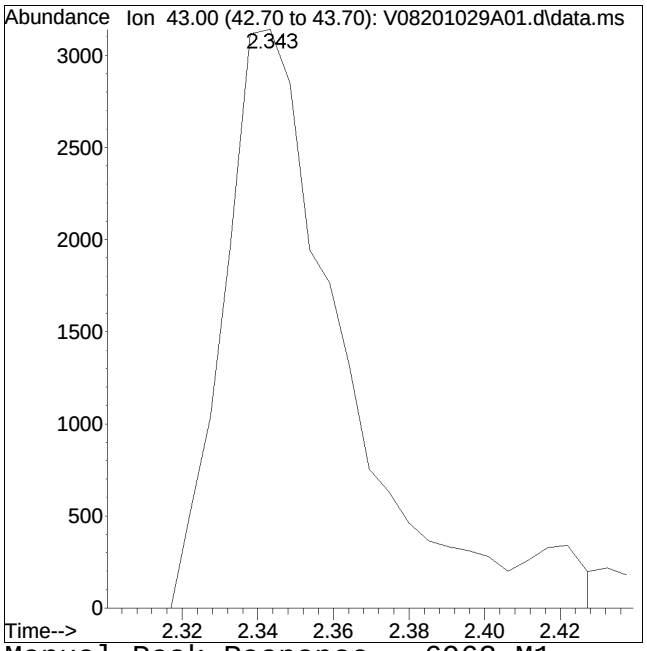
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201029A01.d Operator : VOA108:PD
Date Inj'd : 10/29/2020 8:10 am Instrument : VOA 108
Sample : WG1428085-3,31,10,10 Quant Date : 10/29/2020 8:25 am

Compound #17: Acetone



Original Peak Response = 6609



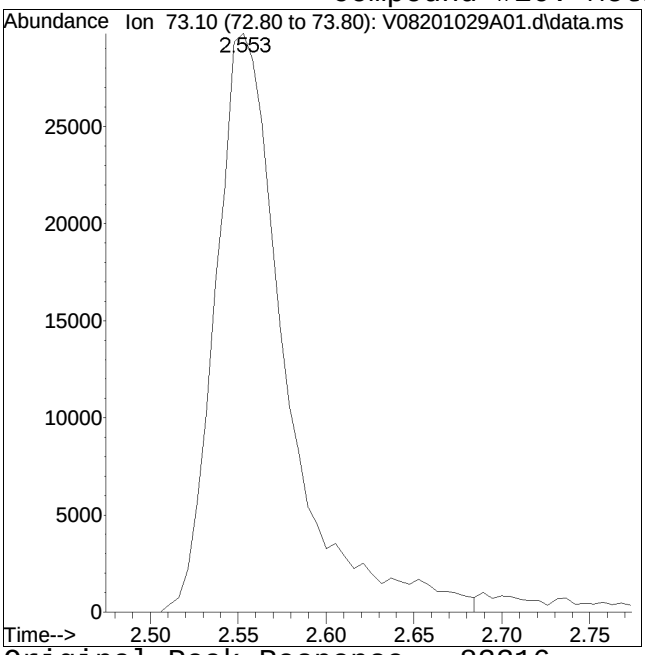
Manual Peak Response = 6963 M1

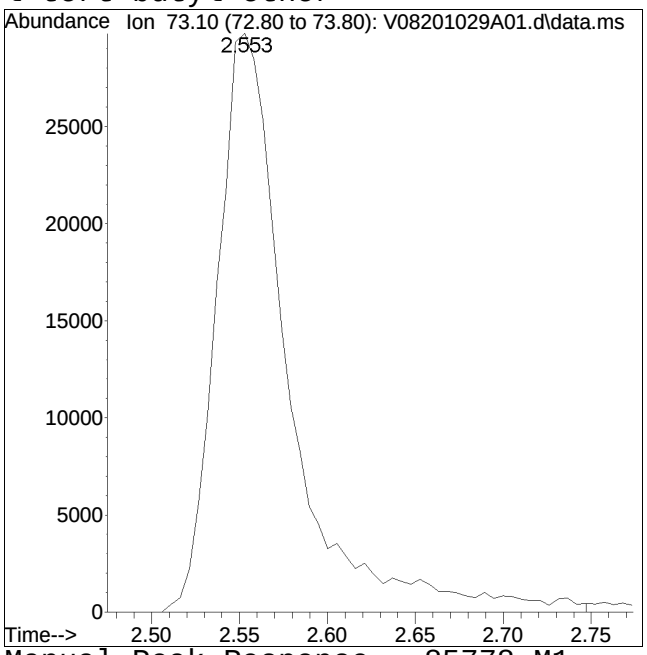
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201029A01.d Operator : VOA108:PD
Date Inj'd : 10/29/2020 8:10 am Instrument : VOA 108
Sample : WG1428085-3,31,10,10 Quant Date : 10/29/2020 8:25 am

Compound #20: Methyl tert-butyl ether



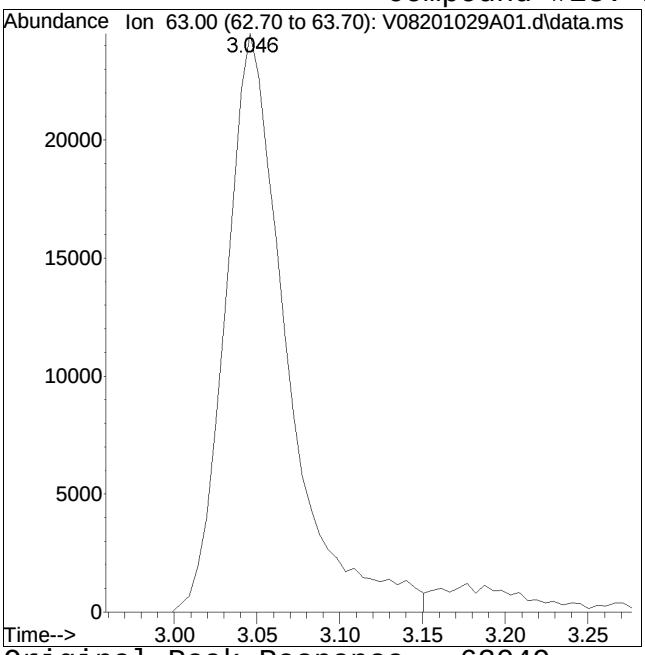


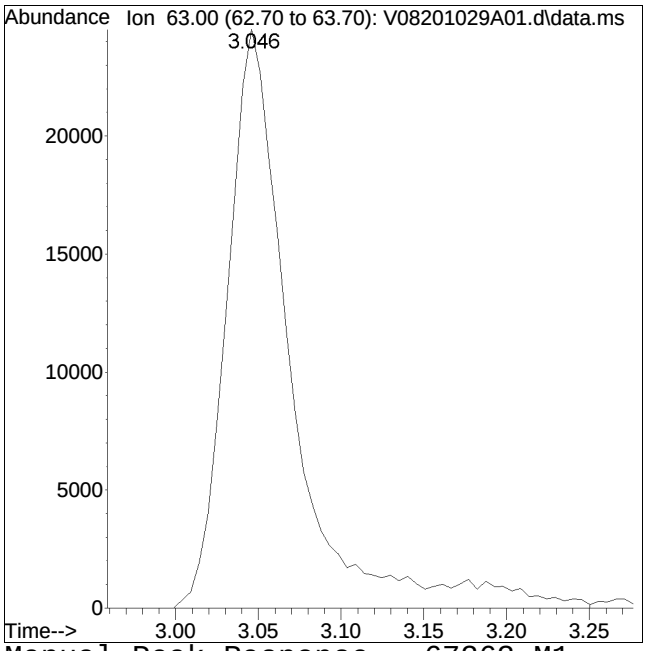
Original Peak Response = 83316 Manual Peak Response = 85778 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201029A01.d Operator : VOA108:PD
Date Inj'd : 10/29/2020 8:10 am Instrument : VOA 108
Sample : WG1428085-3,31,10,10 Quant Date : 10/29/2020 8:25 am

Compound #23: 1,1-Dichloroethane



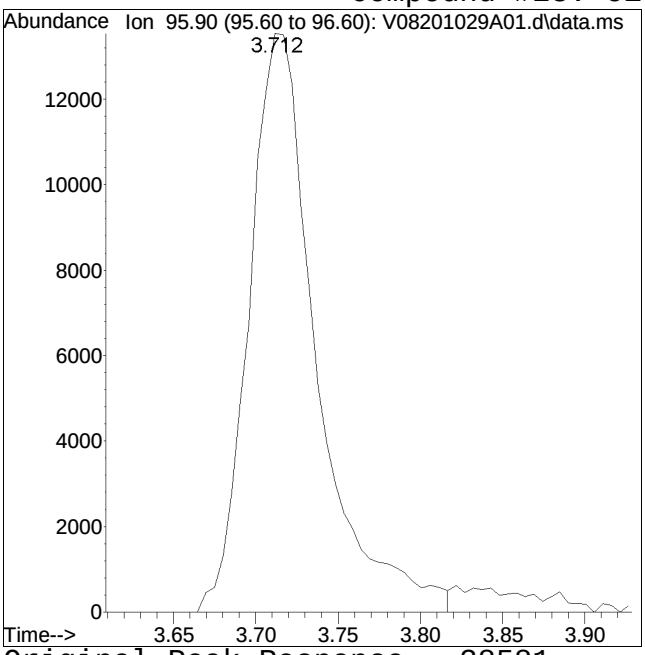


Original Peak Response = 63049 Manual Peak Response = 67263 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

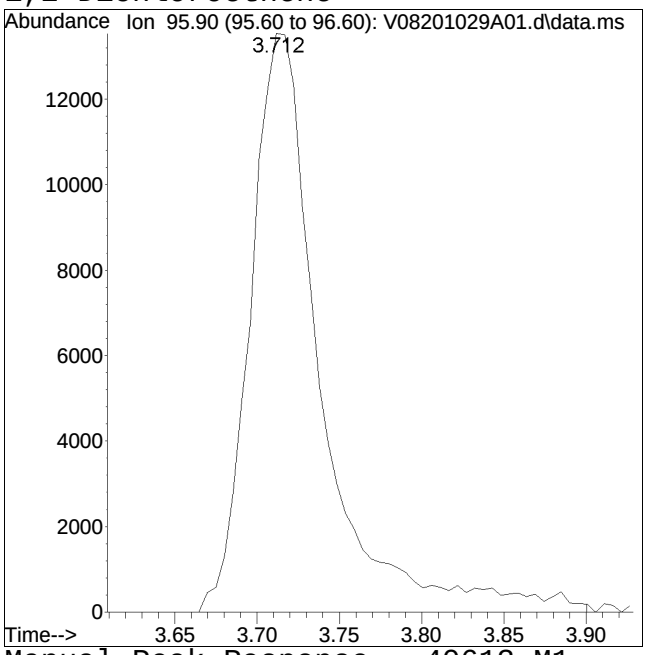
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201029A01.d Operator : VOA108:PD
Date Inj'd : 10/29/2020 8:10 am Instrument : VOA 108
Sample : WG1428085-3,31,10,10 Quant Date : 10/29/2020 8:25 am

Compound #28: cis-1,2-Dichloroethene



Original Peak Response = 38581



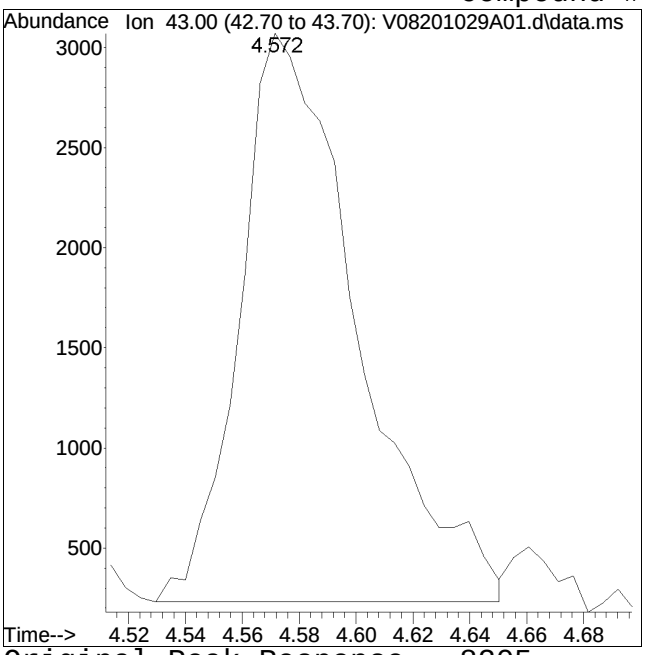
Manual Peak Response = 40613 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

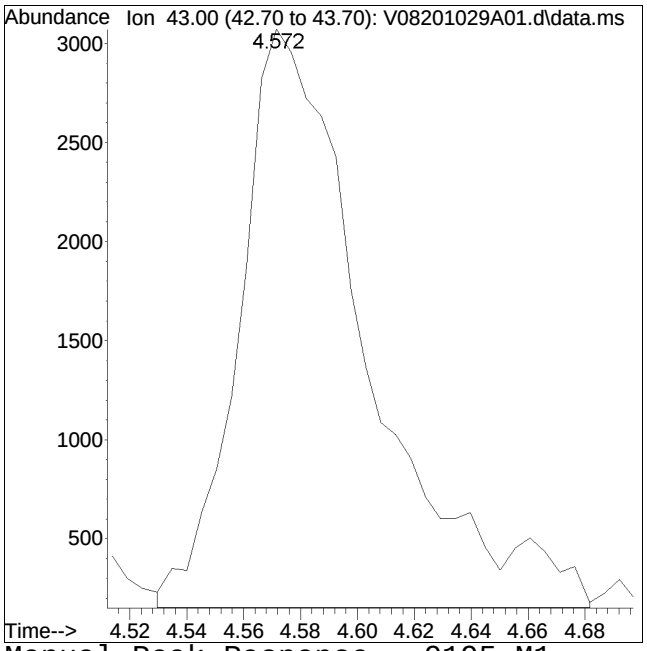
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201029A01.d Operator : VOA108:PD
Date Inj'd : 10/29/2020 8:10 am Instrument : VOA 108
Sample : WG1428085-3,31,10,10 Quant Date : 10/29/2020 8:25 am

Compound #39: 2-Butanone



Original Peak Response = 8205



Manual Peak Response = 9195 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\201029N\
Data File : V05201029N01.d
Acq On : 29 Oct 2020 5:16 pm
Operator : VOA105:LAC
Sample : WG1428497-3,31,10,10
Misc : WG1428497,ICAL17185
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 29 19:45:12 2020
Quant Method : I:\VOLATILES\VOA105\2020\201029N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\201029N\V05201029N01.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.948	96	327904	10.000	ug/L	0.00
Standard Area 1 = 327904			Recovery = 100.00%			
59) Chlorobenzene-d5	9.461	117	254770	10.000	ug/L	-0.01
Standard Area 1 = 254770			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	12.174	152	130144	10.000	ug/L	-0.02
Standard Area 1 = 130144			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.146	113	85944	9.665	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.65%			
43) 1,2-Dichloroethane-d4	5.665	65	107627	9.875	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.75%			
60) Toluene-d8	7.621	98	320175	10.149	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.49%			
83) 4-Bromofluorobenzene	10.960	95	118457	10.166	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.66%			
Target Compounds						Qvalue
4) Vinyl chloride	1.889	62	93210	11.728	ug/L	97
10) 1,1-Dichloroethene	2.926	96	63196	8.193	ug/L	88
15) Methylene chloride	3.474	84	71501	9.878	ug/L #	66
17) Acetone	3.523	43	13412	8.210	ug/L	97
18) trans-1,2-Dichloroethene	3.620	96	65641	9.699	ug/L	89
20) Methyl tert-butyl ether	3.708	73	133057	8.293	ug/L #	84
23) 1,1-Dichloroethane	4.198	63	145242	10.105	ug/L	95
28) cis-1,2-Dichloroethene	4.706	96	83036	10.007	ug/L	92
32) Chloroform	4.970	83	126210	9.307	ug/L #	93
34) Carbon tetrachloride	5.097	117	92900	8.947	ug/L	98
37) 1,1,1-Trichloroethane	5.166	97	112807	8.971	ug/L	93
39) 2-Butanone	5.264	43	20853	8.180	ug/L #	67
41) Benzene	5.528	78	279533	9.998	ug/L #	92
44) 1,2-Dichloroethane	5.743	62	98799	9.430	ug/L	98
48) Trichloroethene	6.115	95	75721	9.250	ug/L	97
57) 1,4-Dioxane	6.946	88	17842	353.827	ug/L #	79
61) Toluene	7.679	92	180090	9.785	ug/L	100
63) Tetrachloroethene	8.120	166	86904	9.953	ug/L	91
73) Chlorobenzene	9.480	112	193107	9.322	ug/L	94
74) Ethylbenzene	9.510	91	345077	9.414	ug/L	94

Data Path : I:\VOLATILES\VOA105\2020\201029N\
Data File : V05201029N01.d
Acq On : 29 Oct 2020 5:16 pm
Operator : VOA105:LAC
Sample : WG1428497-3,31,10,10
Misc : WG1428497,ICAL17185
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 29 19:45:12 2020
Quant Method : I:\VOLATILES\VOA105\2020\201029N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\201029N\V05201029N01.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) p/m Xylene	9.696	106	270974	18.859	ug/L	86
77) o Xylene	10.244	106	244988	18.814	ug/L	87
85) n-Propylbenzene	11.107	91	404364	9.897	ug/L	96
90) 1,3,5-Trimethylbenzene	11.342	105	283421	9.971	ug/L	95
94) tert-Butylbenzene	11.675	119	237185	9.417	ug/L	94
97) 1,2,4-Trimethylbenzene	11.763	105	272546	10.037	ug/L	93
98) sec-Butylbenzene	11.871	105	330846	9.727	ug/L	98
100) 1,3-Dichlorobenzene	12.096	146	151427	9.865	ug/L	95
101) 1,4-Dichlorobenzene	12.194	146	154347	9.989	ug/L	96
103) n-Butylbenzene	12.458	91	247939	9.192	ug/L	97
104) 1,2-Dichlorobenzene	12.615	146	135480	9.943	ug/L	95

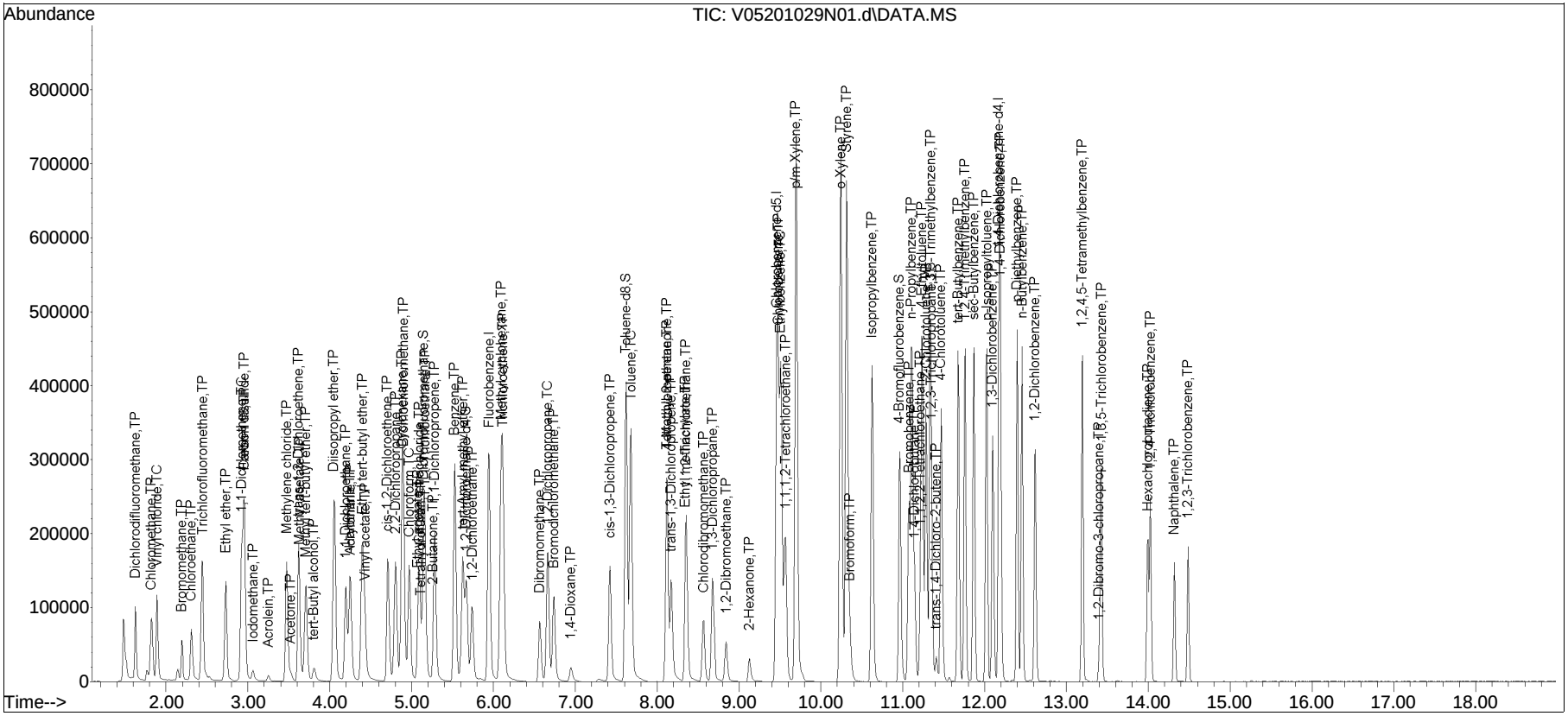
(#) = qualifier out of range (m) = manual integration (+) = signals summed

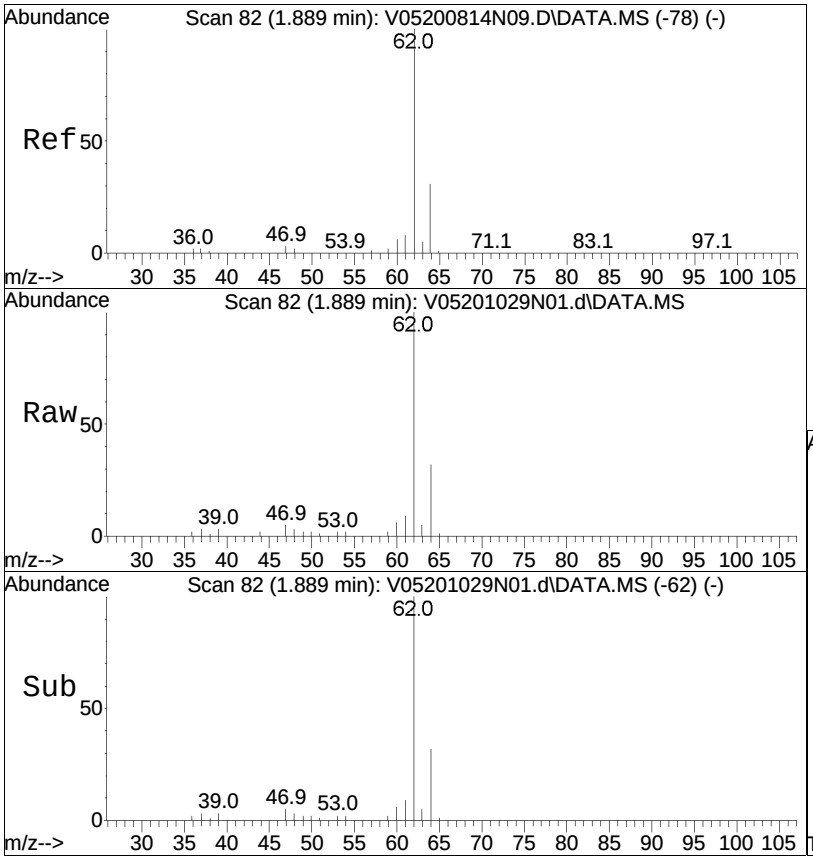
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\201029N\
Data File : V05201029N01.d
Acq On : 29 Oct 2020 5:16 pm
Operator : VOA105:LAC
Sample : WG1428497-3,31,10,10
Misc : WG1428497,ICAL17185
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 29 19:45:12 2020
Quant Method : I:\VOLATILES\VOA105\2020\201029N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVEV05201029N01.d•

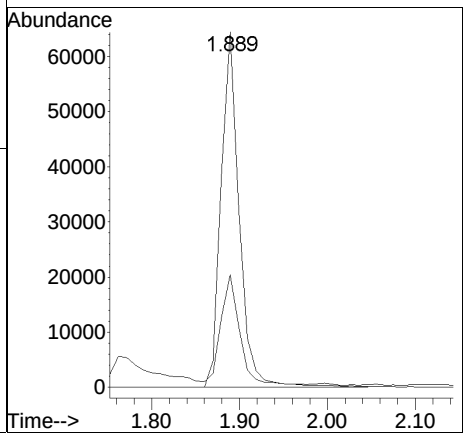


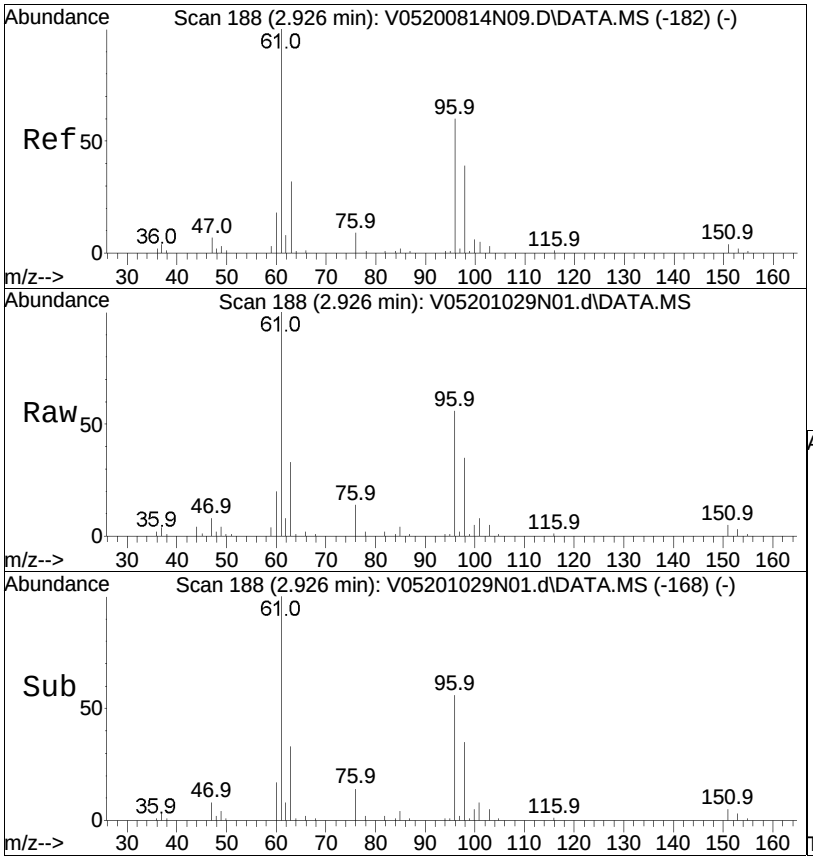


#4
Vinyl chloride
Concen: 11.73 ug/L
RT: 1.889 min Scan# 82
Delta R.T. 0.000 min
Lab File: V05201029N01.d
Acq: 29 Oct 2020 5:16 pm

Tgt Ion: 62 Resp: 93210

Ion	Ratio	Lower	Upper
62	100		
64	31.9	13.5	53.5

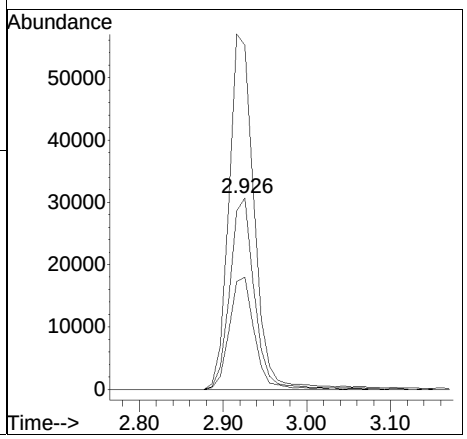


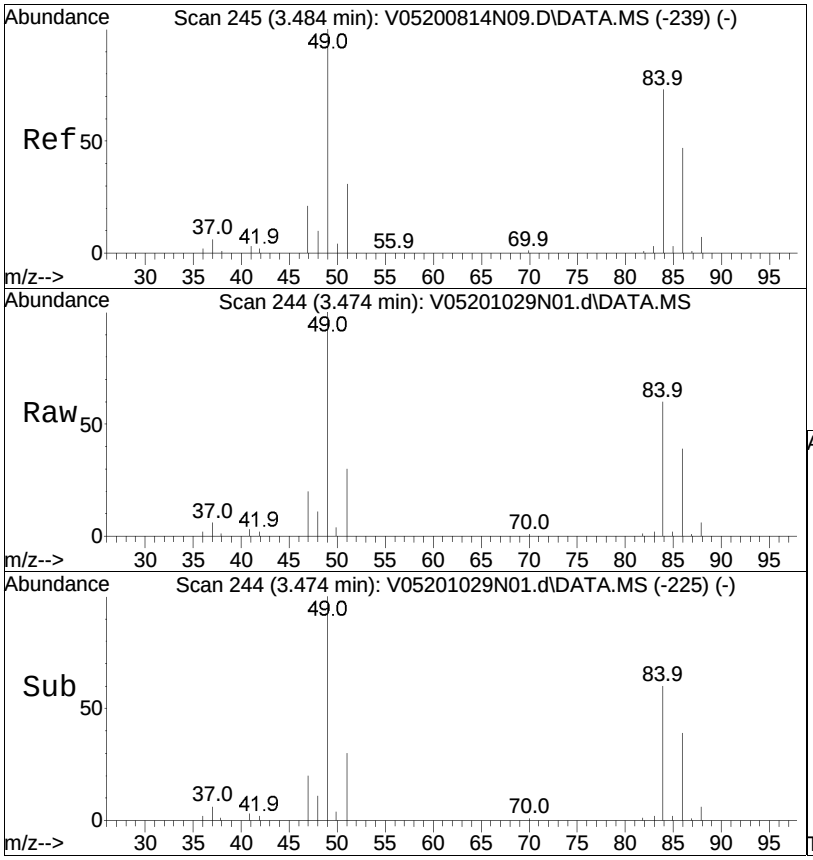


#10
1,1-Dichloroethene
Concen: 8.19 ug/L
RT: 2.926 min Scan# 188
Delta R.T. 0.000 min
Lab File: V05201029N01.d
Acq: 29 Oct 2020 5:16 pm

Tgt Ion: 96 Resp: 63196

Ion	Ratio	Lower	Upper
96	100		
61	190.0	136.7	205.1
63	59.7	45.0	67.6

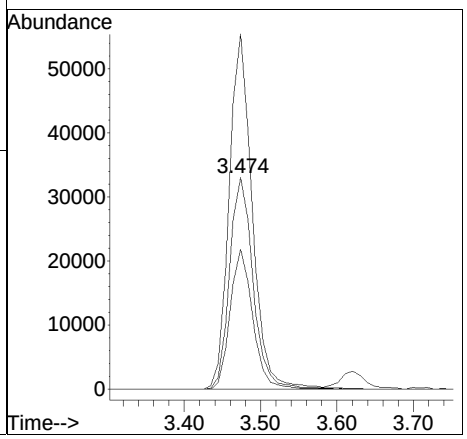


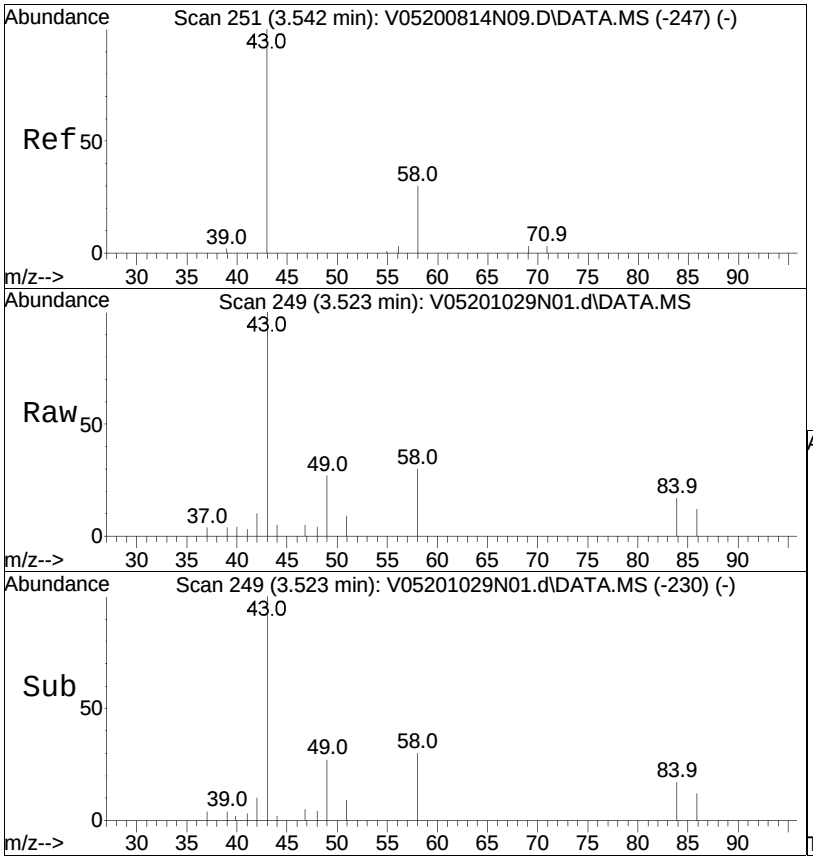


#15
Methylene chloride
Concen: 9.88 ug/L
RT: 3.474 min Scan# 244
Delta R.T. -0.010 min
Lab File: V05201029N01.d
Acq: 29 Oct 2020 5:16 pm

Tgt Ion: 84 Resp: 71501

Ion	Ratio	Lower	Upper
84	100		
86	63.6	42.1	87.5
49	163.0	69.3	143.9#

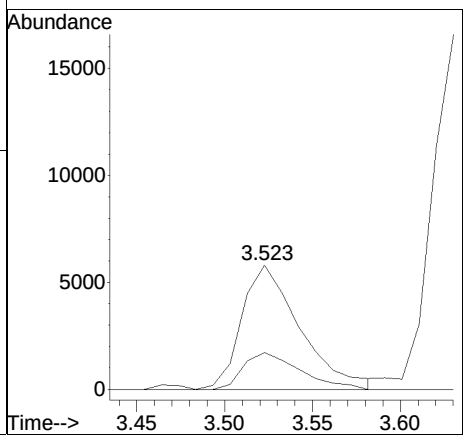


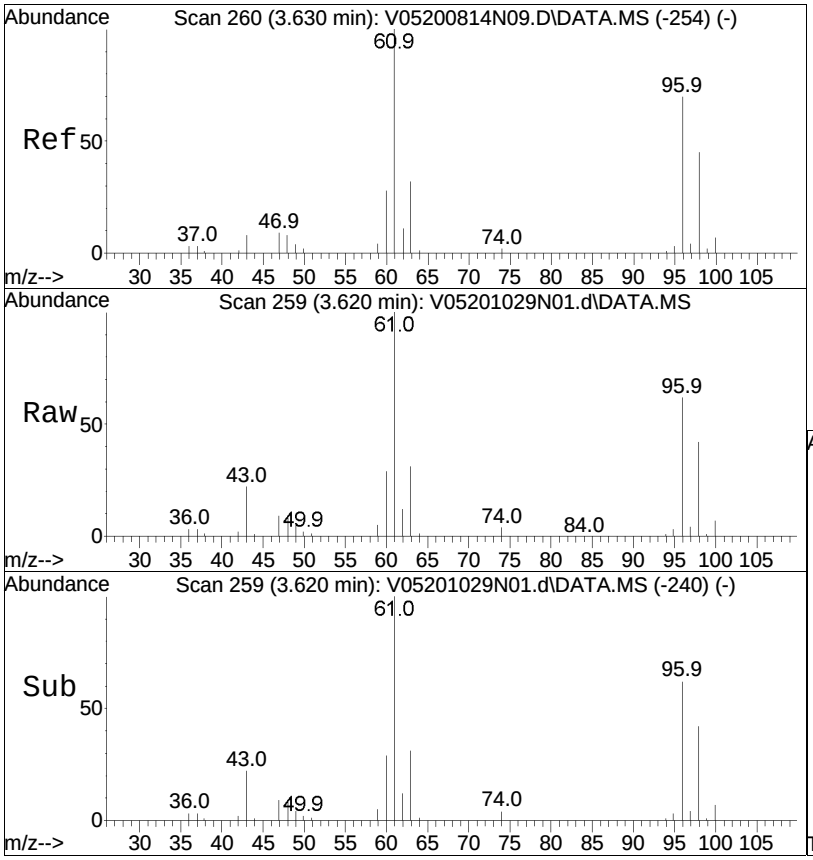


#17
Acetone
Concen: 8.21 ug/L
RT: 3.523 min Scan# 249
Delta R.T. -0.010 min
Lab File: V05201029N01.d
Acq: 29 Oct 2020 5:16 pm

Tgt Ion: 43 Resp: 13412

Ion	Ratio	Lower	Upper
43	100		
58	29.0	22.0	33.0

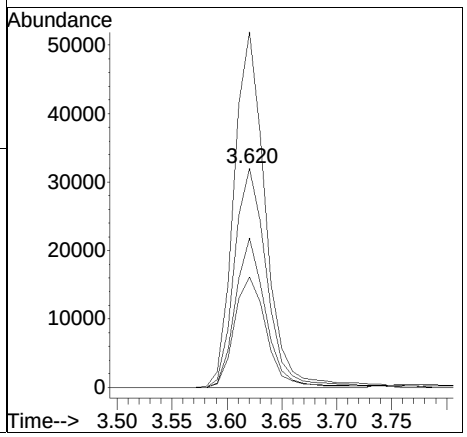


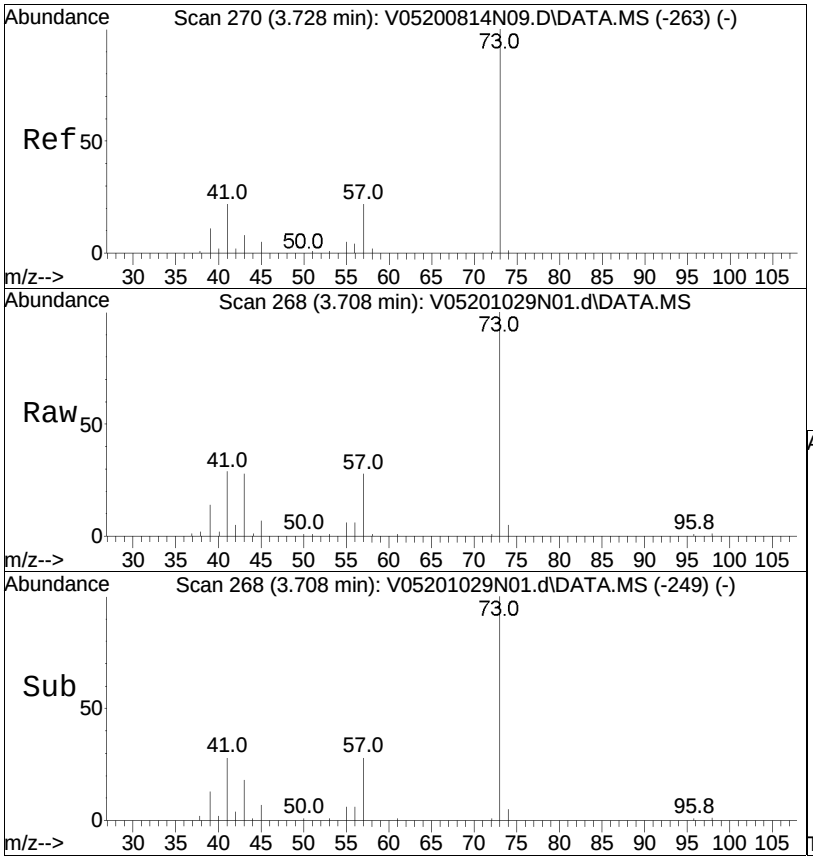


#18
trans-1,2-Dichloroethene
Concen: 9.70 ug/L
RT: 3.620 min Scan# 259
Delta R.T. -0.010 min
Lab File: V05201029N01.d
Acq: 29 Oct 2020 5:16 pm

Tgt Ion: 96 Resp: 65641

Ion	Ratio	Lower	Upper
96	100		
61	159.7	91.7	190.5
98	65.0	41.1	85.5
63	50.8	29.4	61.0

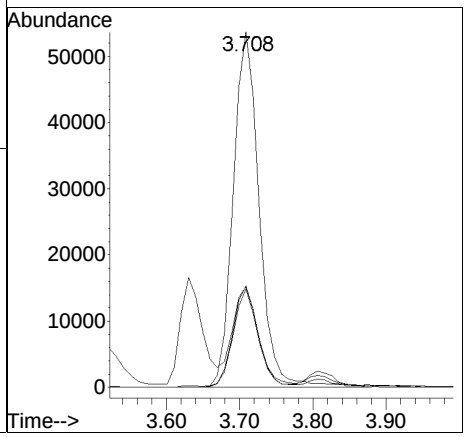


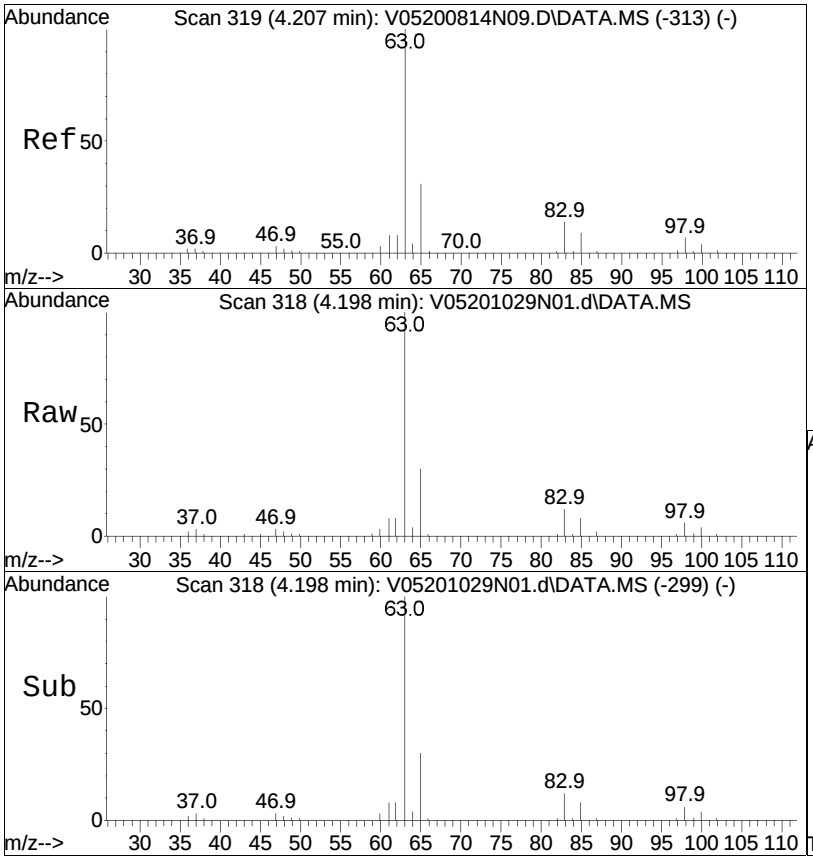


#20
Methyl tert-butyl ether
Concen: 8.29 ug/L
RT: 3.708 min Scan# 268
Delta R.T. -0.010 min
Lab File: V05201029N01.d
Acq: 29 Oct 2020 5:16 pm

Tgt Ion: 73 Resp: 133057

Ion	Ratio	Lower	Upper
73	100		
57	26.6	11.8	24.6#
43	27.1	13.5	27.9
41	27.1	13.3	27.5

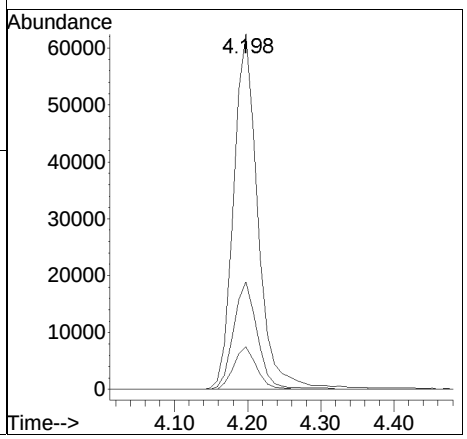


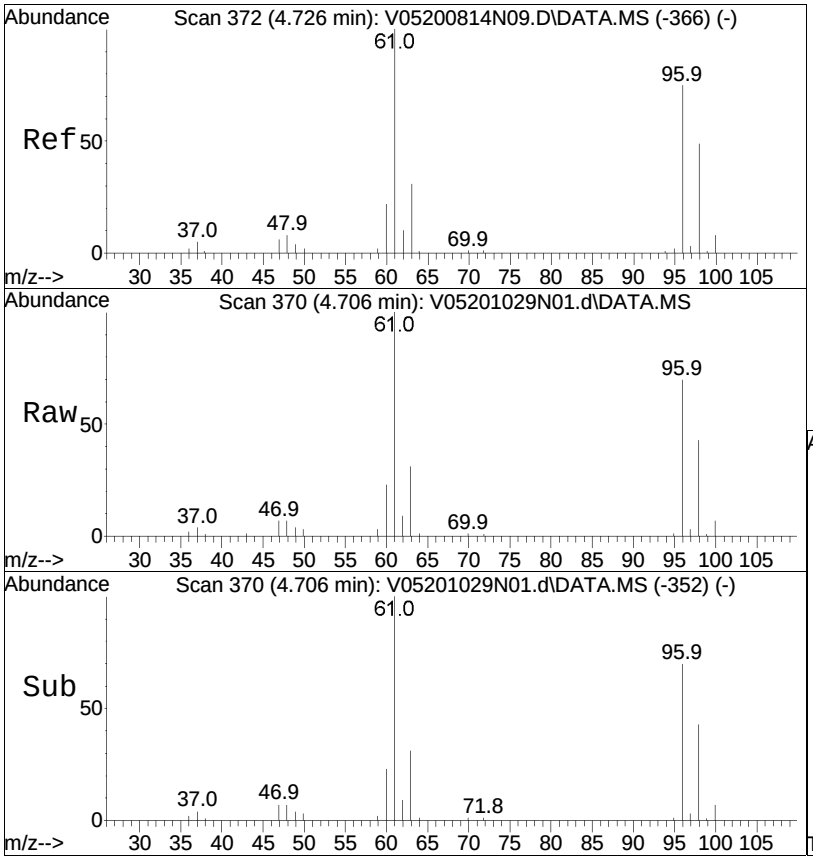


#23
1,1-Dichloroethane
Concen: 10.11 ug/L
RT: 4.198 min Scan# 318
Delta R.T. -0.009 min
Lab File: V05201029N01.d
Acq: 29 Oct 2020 5:16 pm

Tgt Ion: 63 Resp: 145242

Ion	Ratio	Lower	Upper
63	100		
65	29.8	11.9	51.9
83	11.2	0.0	34.2

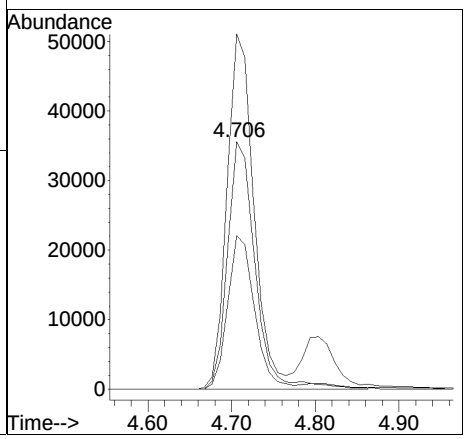


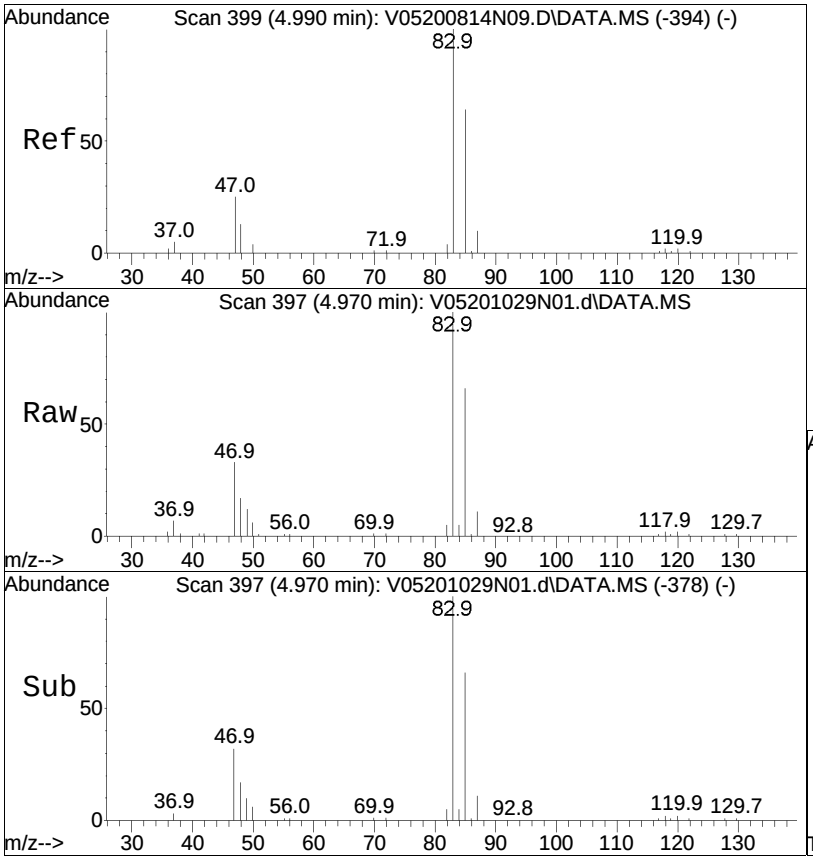


#28
cis-1,2-Dichloroethene
Concen: 10.01 ug/L
RT: 4.706 min Scan# 370
Delta R.T. -0.020 min
Lab File: V05201029N01.d
Acq: 29 Oct 2020 5:16 pm

Tgt Ion: 96 Resp: 83036

Ion	Ratio	Lower	Upper
96	100		
61	137.3	100.5	150.7
98	59.9	49.8	74.8

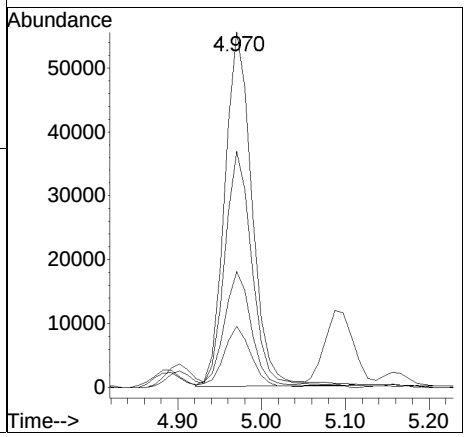


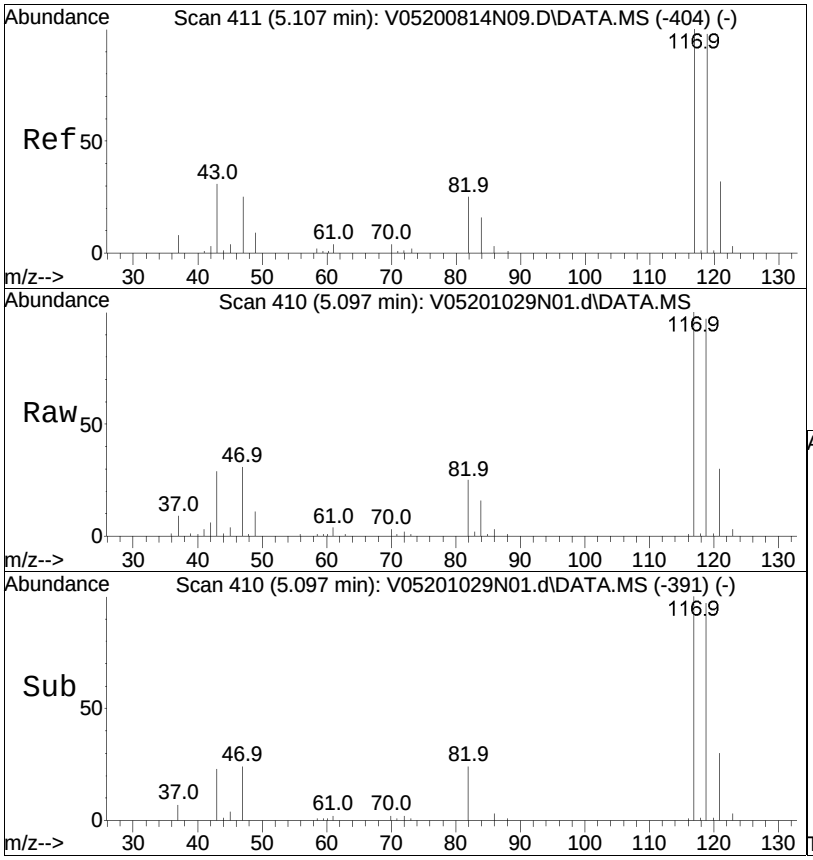


#32
Chloroform
Concen: 9.31 ug/L
RT: 4.970 min Scan# 397
Delta R.T. -0.010 min
Lab File: V05201029N01.d
Acq: 29 Oct 2020 5:16 pm

Tgt Ion: 83 Resp: 126210

Ion	Ratio	Lower	Upper
83	100		
85	66.6	42.8	89.0
47	30.7	13.7	28.4#
48	17.2	6.9	14.3#

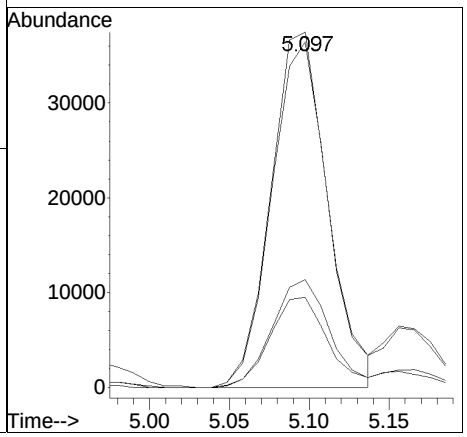


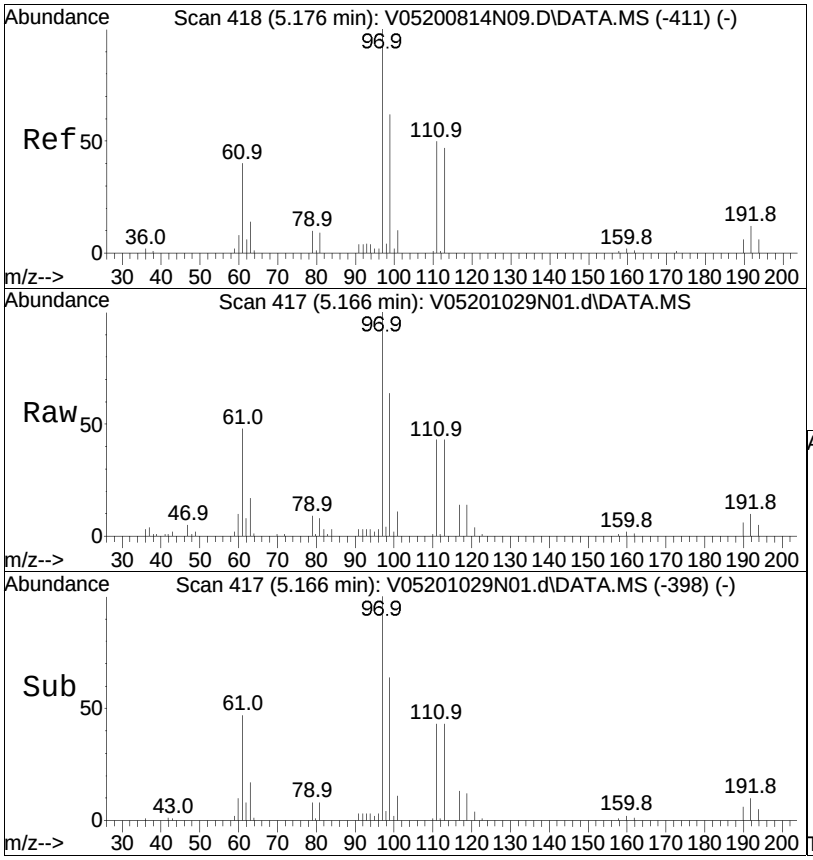


#34
Carbon tetrachloride
Concen: 8.95 ug/L
RT: 5.097 min Scan# 410
Delta R.T. -0.010 min
Lab File: V05201029N01.d
Acq: 29 Oct 2020 5:16 pm

Tgt Ion:117 Resp: 92900

Ion	Ratio	Lower	Upper
117	100		
119	96.3	63.6	132.2
121	30.5	19.8	41.0
82	25.9	15.9	32.9

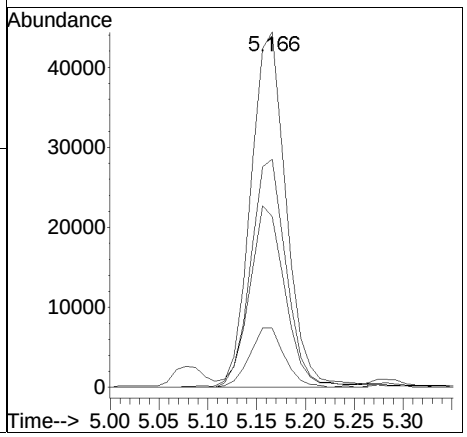


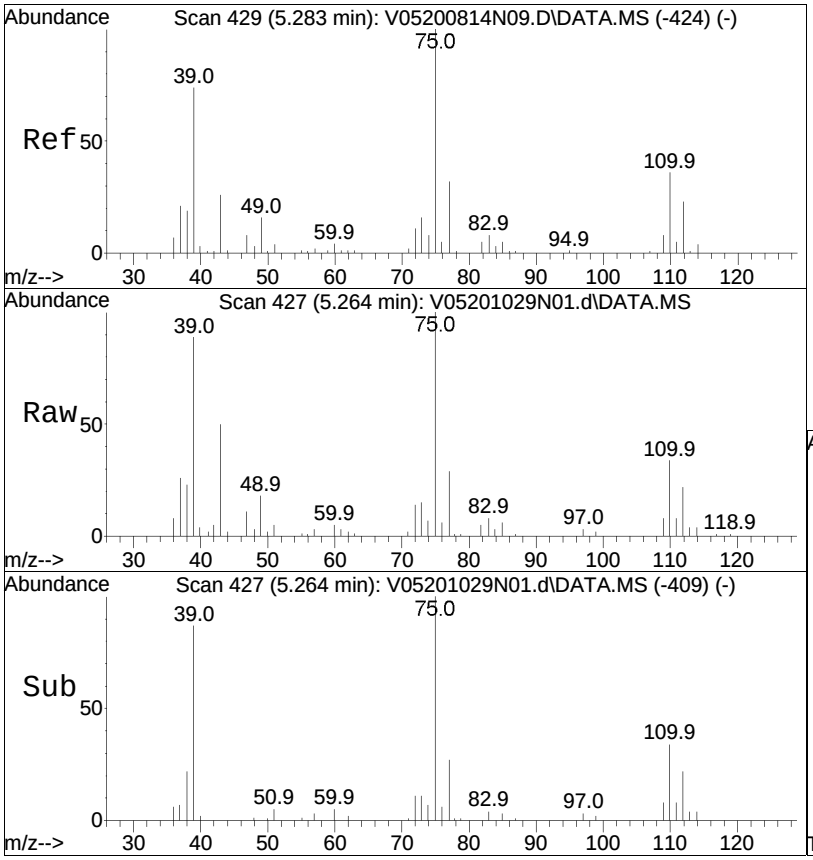


#37
1,1,1-Trichloroethane
Concen: 8.97 ug/L
RT: 5.166 min Scan# 417
Delta R.T. -0.010 min
Lab File: V05201029N01.d
Acq: 29 Oct 2020 5:16 pm

Tgt Ion: 97 Resp: 112807

Ion	Ratio	Lower	Upper
97	100		
99	64.5	41.7	86.5
61	50.8	26.1	54.3
63	16.4	8.5	17.6

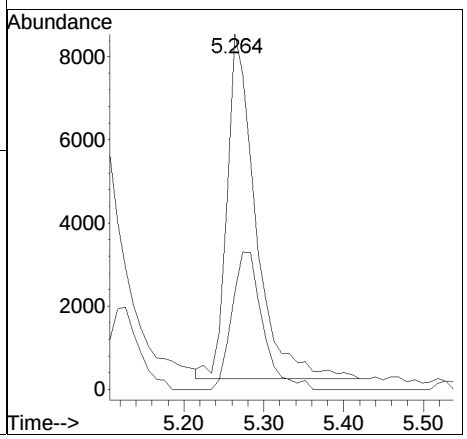


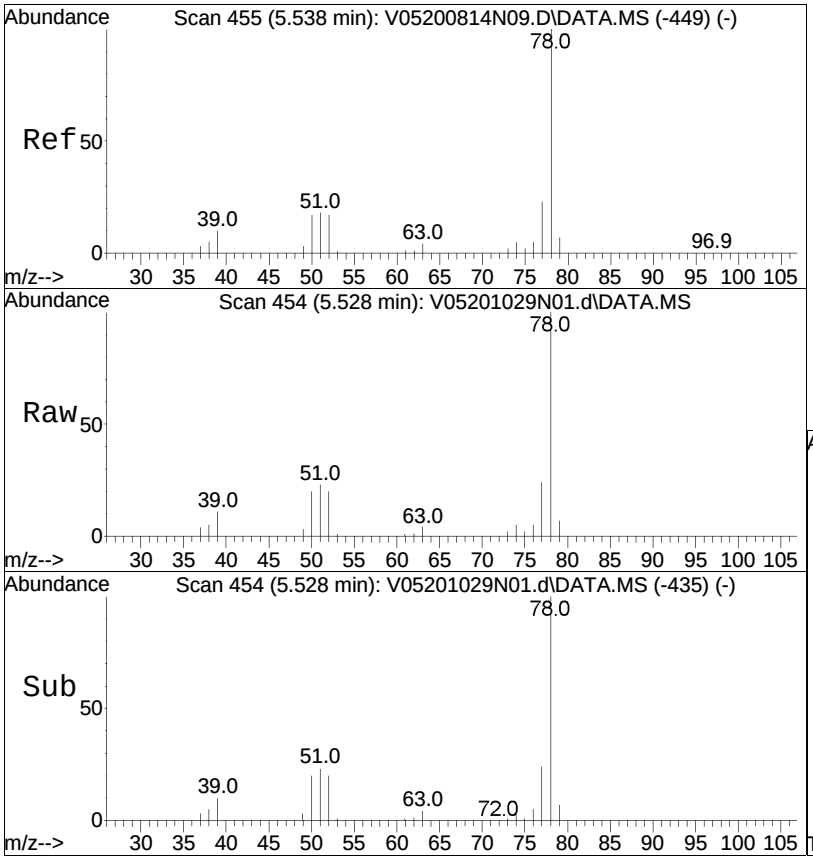


#39
2-Butanone
Concen: 8.18 ug/L
RT: 5.264 min Scan# 427
Delta R.T. -0.019 min
Lab File: V05201029N01.d
Acq: 29 Oct 2020 5:16 pm

Tgt Ion: 43 Resp: 20853

Ion	Ratio	Lower	Upper
43	100		
72	42.4	55.6	83.4#

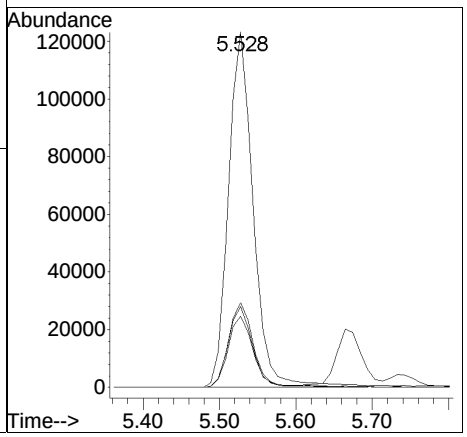


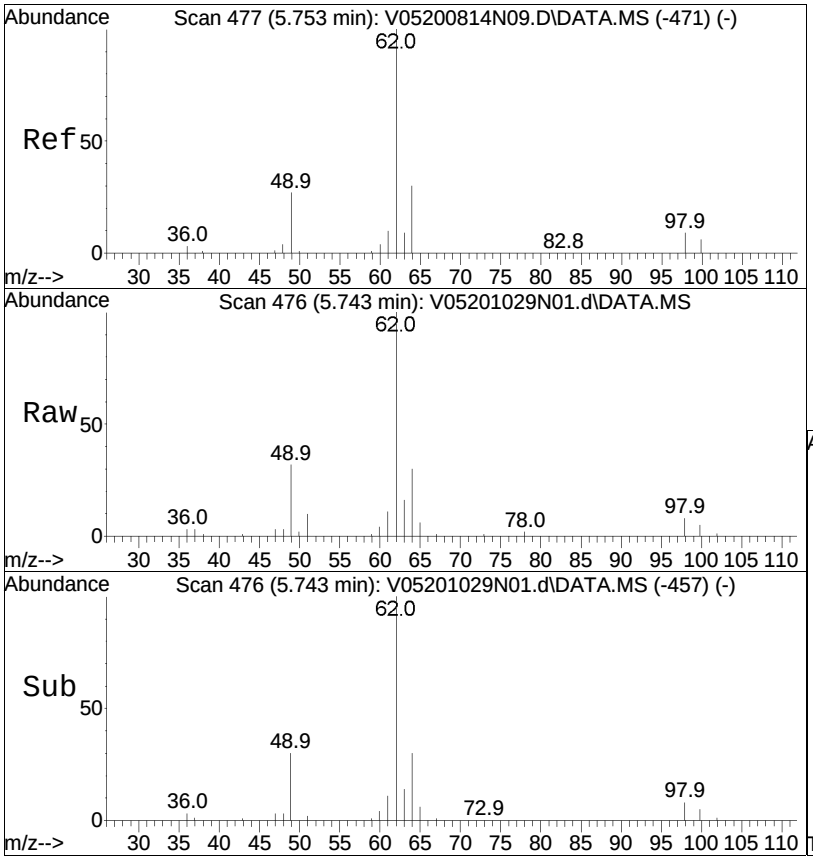


#41
Benzene
Concen: 10.00 ug/L
RT: 5.528 min Scan# 454
Delta R.T. -0.010 min
Lab File: V05201029N01.d
Acq: 29 Oct 2020 5:16 pm

Tgt Ion: 78 Resp: 279533

Ion	Ratio	Lower	Upper
78	100		
77	24.1	15.2	31.6
51	21.9	10.5	21.7#
52	20.0	9.5	19.7#

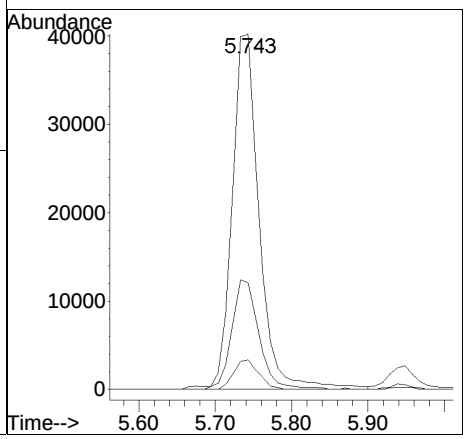


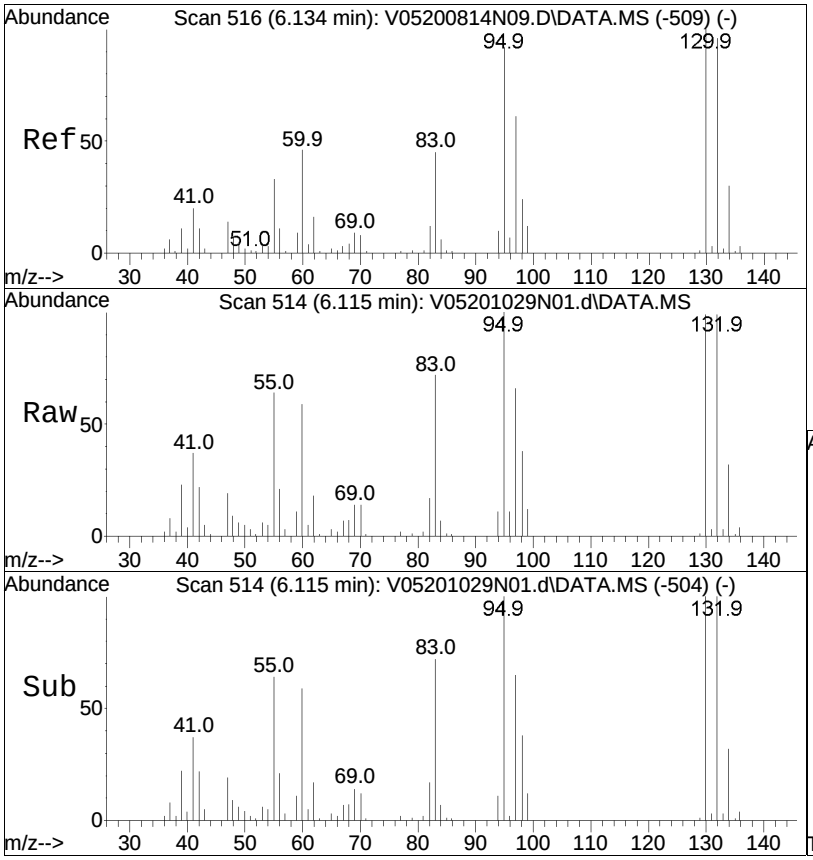


#44
1,2-Dichloroethane
Concen: 9.43 ug/L
RT: 5.743 min Scan# 476
Delta R.T. -0.010 min
Lab File: V05201029N01.d
Acq: 29 Oct 2020 5:16 pm

Tgt Ion: 62 Resp: 98799

Ion	Ratio	Lower	Upper
62	100		
64	31.7	13.2	53.2
98	7.7	0.0	27.8

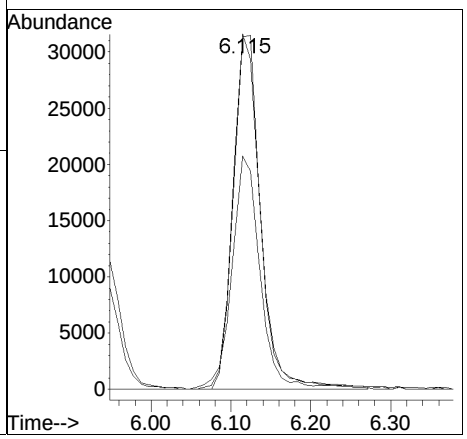


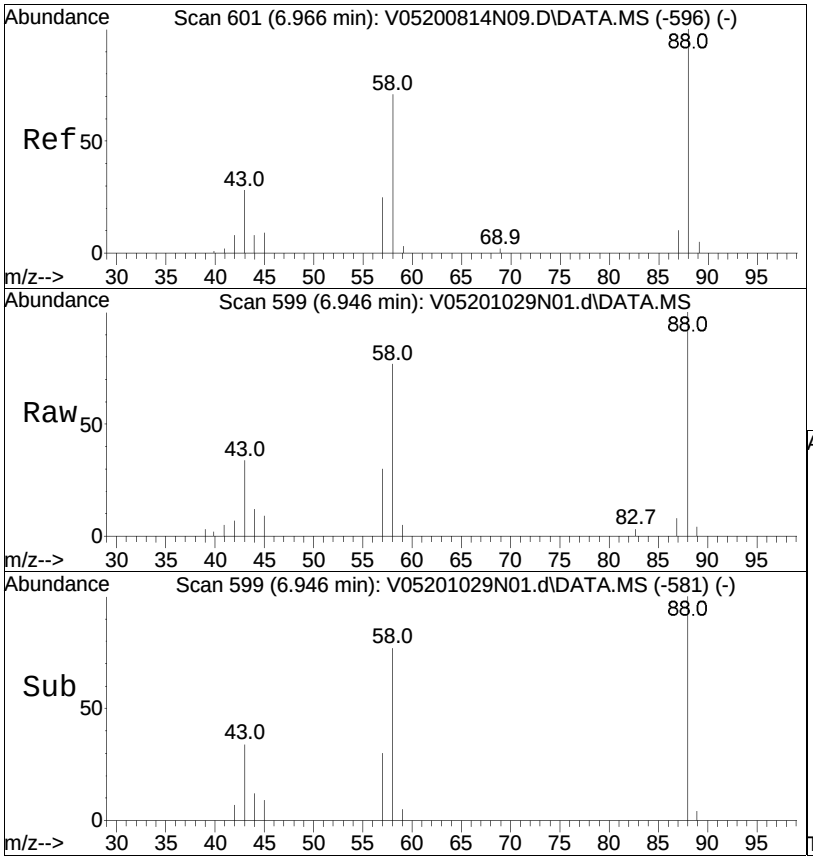


#48
Trichloroethene
Concen: 9.25 ug/L
RT: 6.115 min Scan# 514
Delta R.T. -0.019 min
Lab File: V05201029N01.d
Acq: 29 Oct 2020 5:16 pm

Tgt Ion: 95 Resp: 75721

Ion	Ratio	Lower	Upper
95	100		
97	67.9	56.1	84.1
130	100.5	77.7	116.5

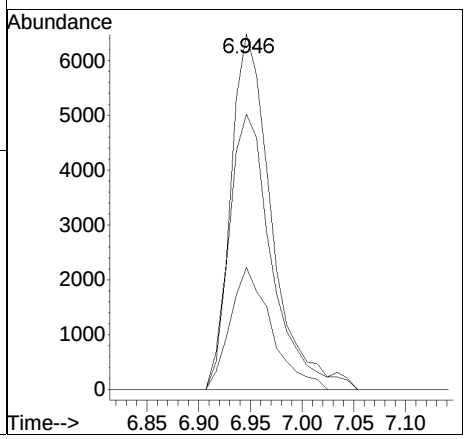


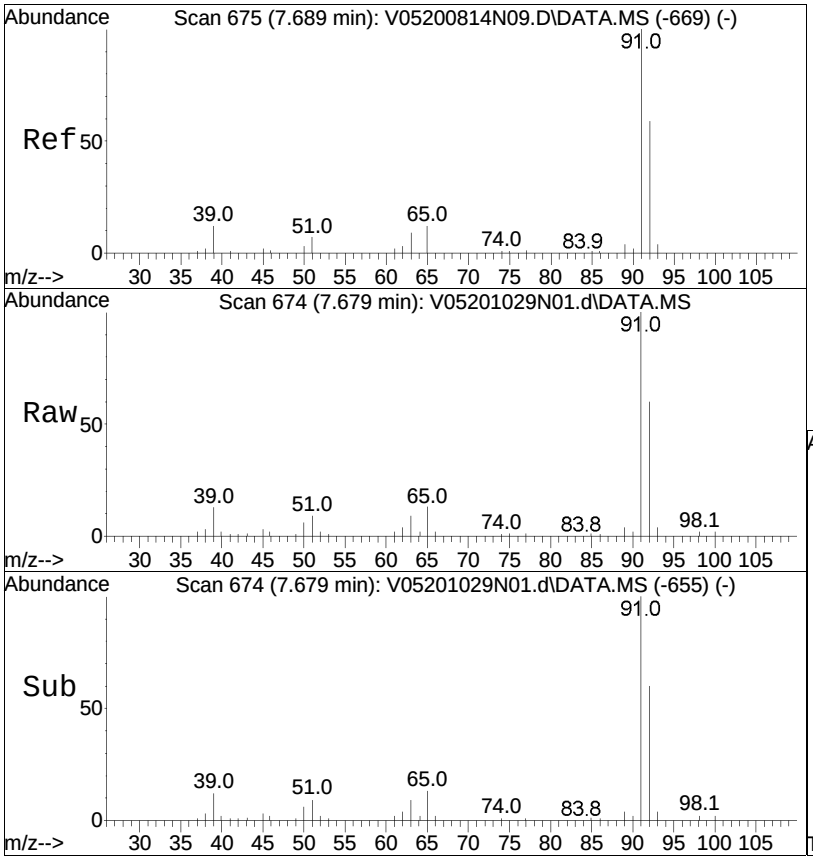


#57
1,4-Dioxane
Concen: 353.83 ug/L
RT: 6.946 min Scan# 599
Delta R.T. -0.020 min
Lab File: V05201029N01.d
Acq: 29 Oct 2020 5:16 pm

Tgt Ion: 88 Resp: 17842

Ion	Ratio	Lower	Upper
88	100		
58	80.5	50.6	75.8#
43	34.5	20.5	30.7#

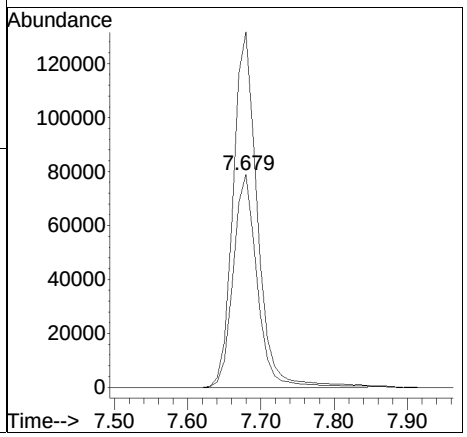


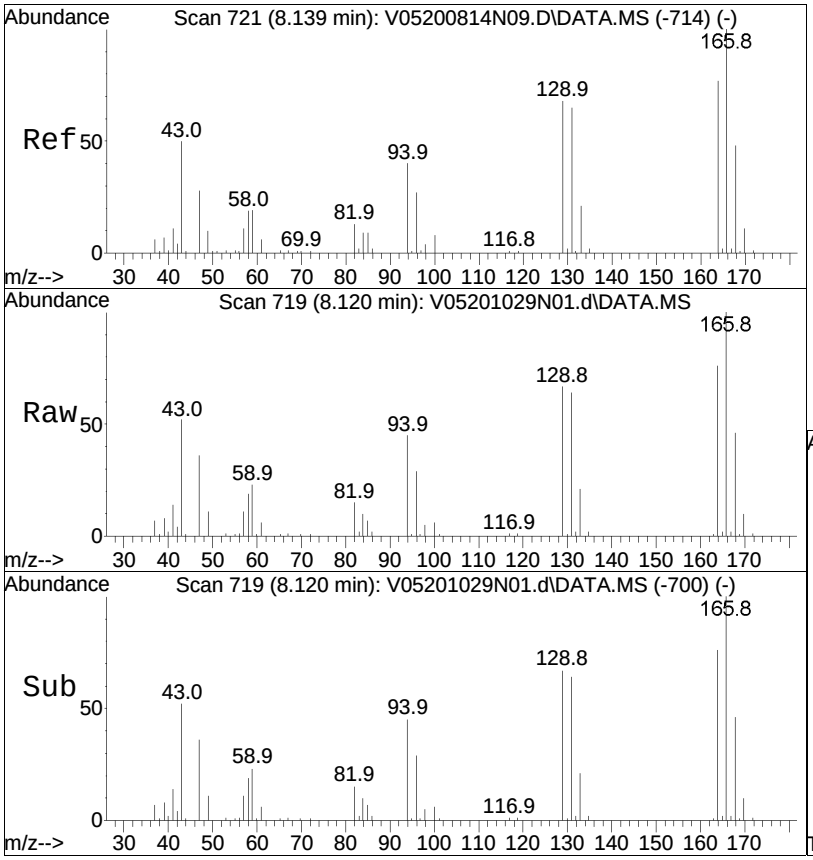


#61
Toluene
Concen: 9.79 ug/L
RT: 7.679 min Scan# 674
Delta R.T. -0.010 min
Lab File: V05201029N01.d
Acq: 29 Oct 2020 5:16 pm

Tgt Ion: 92 Resp: 180090

Ion	Ratio	Lower	Upper
92	100		
91	168.5	135.2	202.8

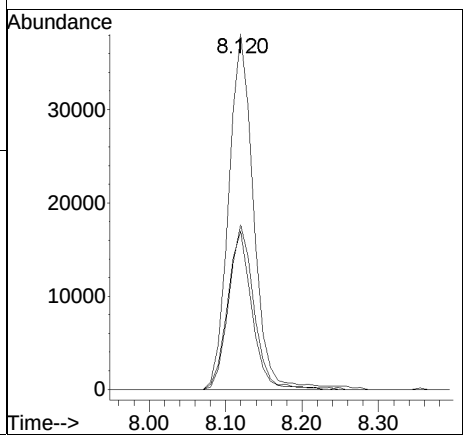


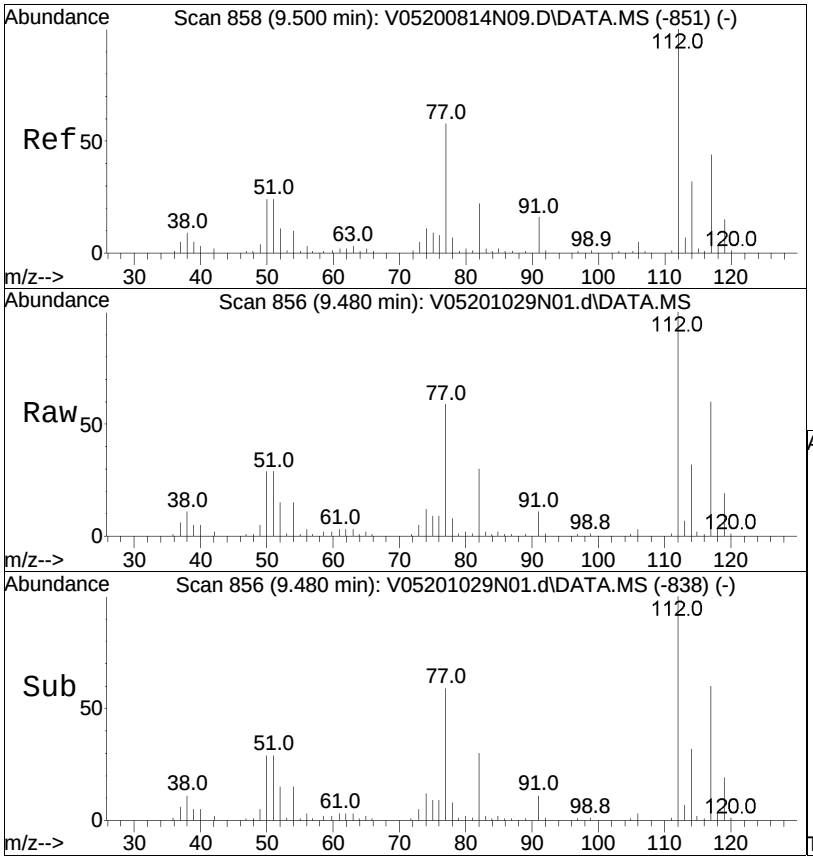


#63
Tetrachloroethene
Concen: 9.95 ug/L
RT: 8.120 min Scan# 719
Delta R.T. -0.010 min
Lab File: V05201029N01.d
Acq: 29 Oct 2020 5:16 pm

Tgt Ion:166 Resp: 86904

Ion	Ratio	Lower	Upper
166	100		
168	46.3	30.2	70.2
94	43.6	32.5	72.5

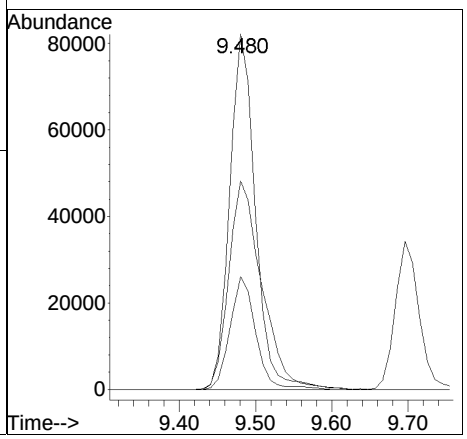


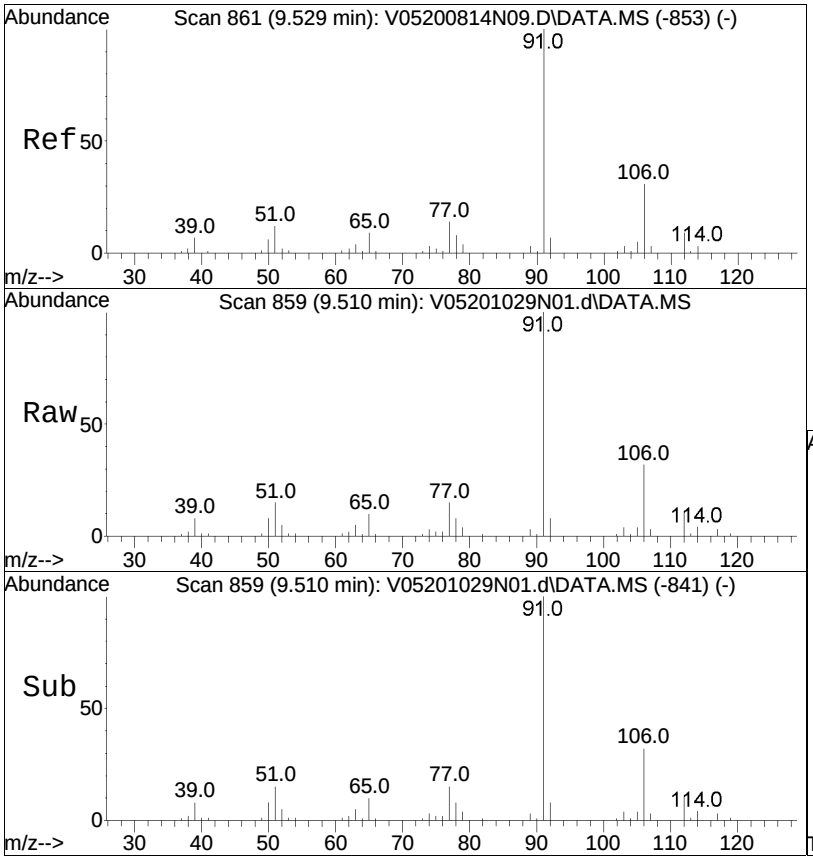


#73
Chlorobenzene
Concen: 9.32 ug/L
RT: 9.480 min Scan# 856
Delta R.T. -0.020 min
Lab File: V05201029N01.d
Acq: 29 Oct 2020 5:16 pm

Tgt Ion:112 Resp: 193107

Ion	Ratio	Lower	Upper
112	100		
77	75.0	66.1	99.1
114	31.6	25.4	38.0

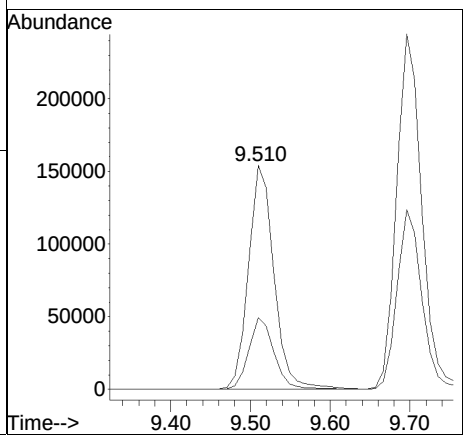


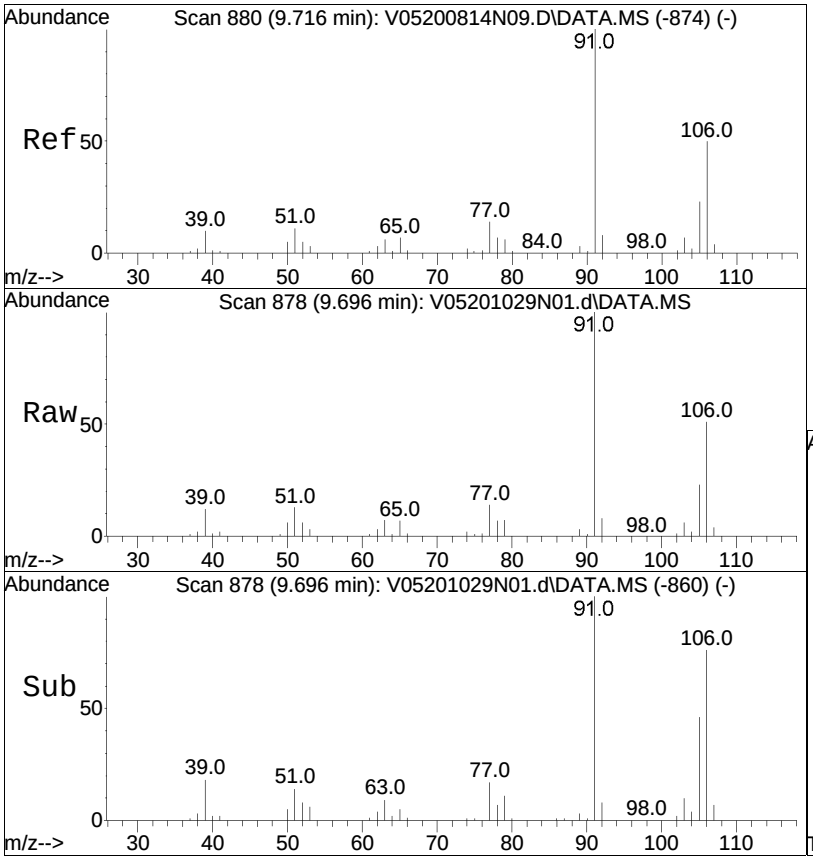


#74
Ethylbenzene
Concen: 9.41 ug/L
RT: 9.510 min Scan# 859
Delta R.T. -0.019 min
Lab File: V05201029N01.d
Acq: 29 Oct 2020 5:16 pm

Tgt Ion: 91 Resp: 345077

Ion	Ratio	Lower	Upper
91	100		
106	31.7	22.9	34.3

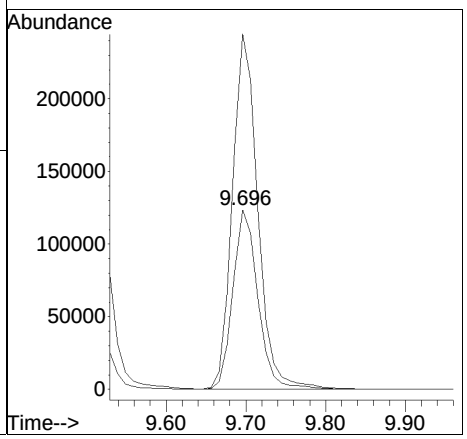


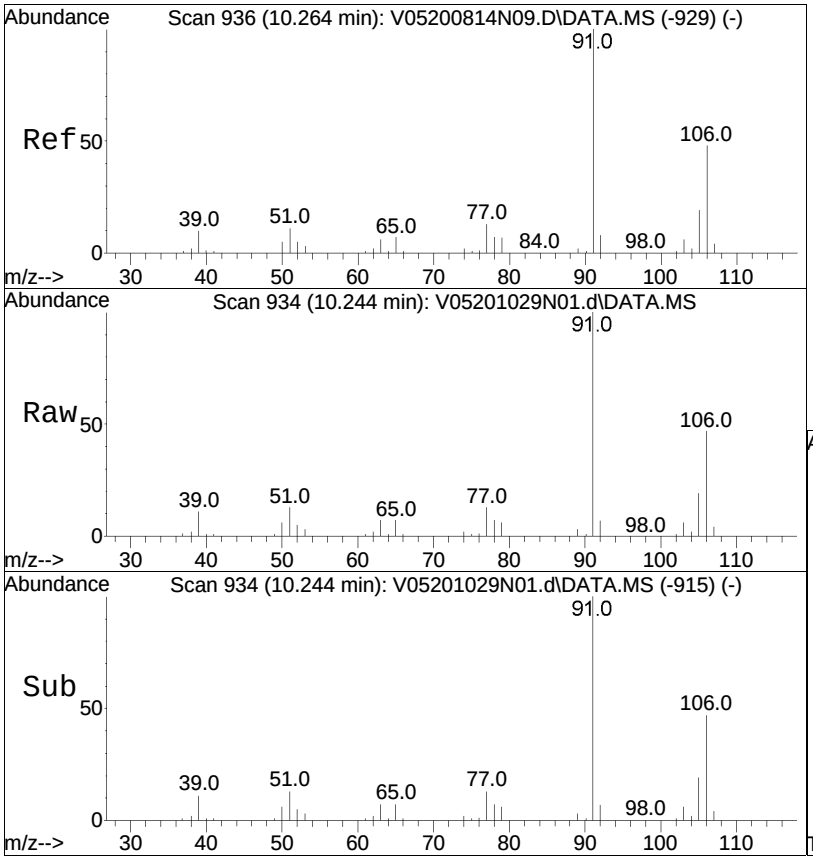


#76
p/m Xylene
Concen: 18.86 ug/L
RT: 9.696 min Scan# 878
Delta R.T. -0.020 min
Lab File: V05201029N01.d
Acq: 29 Oct 2020 5:16 pm

Tgt Ion:106 Resp: 270974

Ion	Ratio	Lower	Upper
106	100		
91	198.3	177.2	265.8

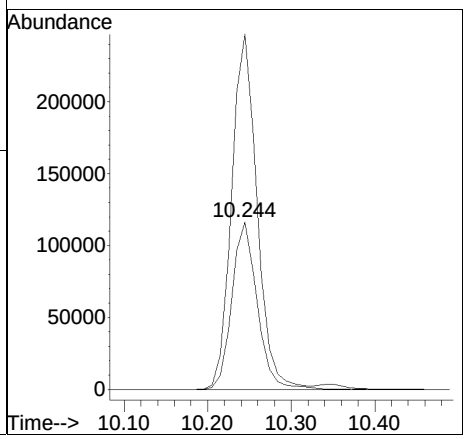


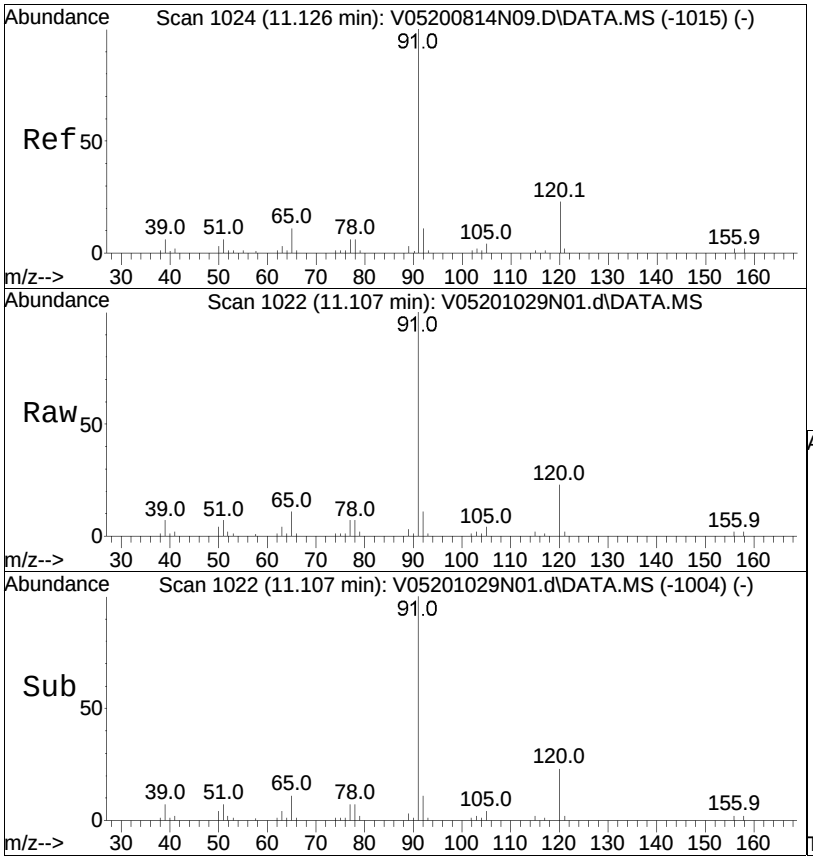


#77
o Xylene
Concen: 18.81 ug/L
RT: 10.244 min Scan# 934
Delta R.T. -0.010 min
Lab File: V05201029N01.d
Acq: 29 Oct 2020 5:16 pm

Tgt Ion:106 Resp: 244988

Ion	Ratio	Lower	Upper
106	100		
91	212.8	187.0	280.6

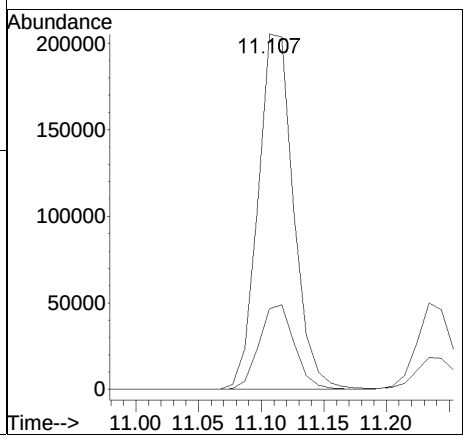


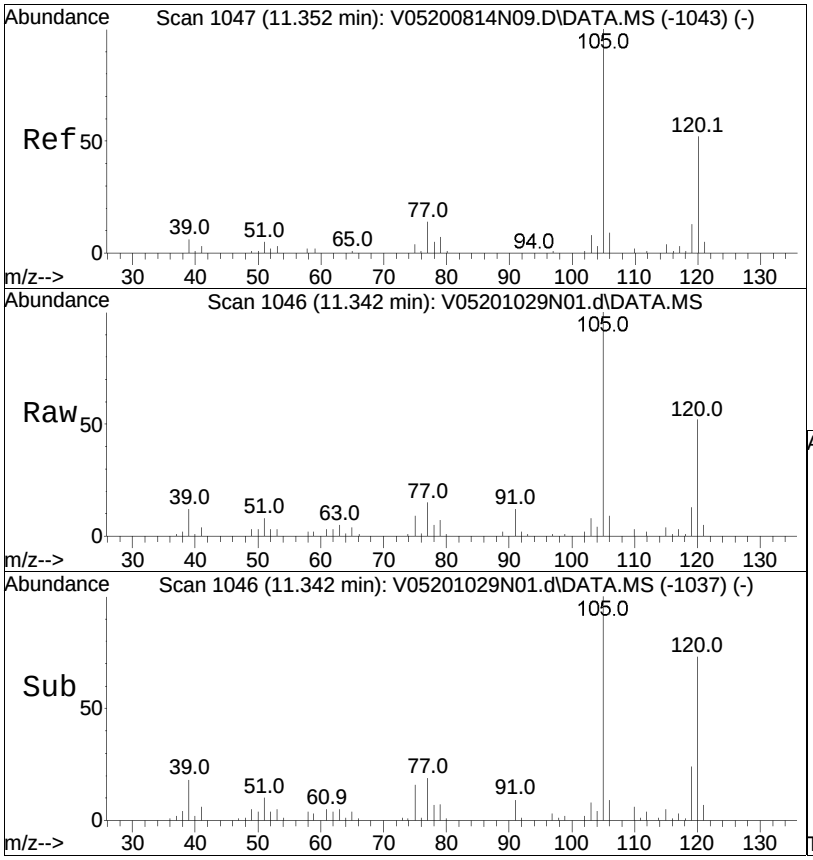


#85
n-Propylbenzene
Concen: 9.90 ug/L
RT: 11.107 min Scan# 1022
Delta R.T. -0.019 min
Lab File: V05201029N01.d
Acq: 29 Oct 2020 5:16 pm

Tgt Ion: 91 Resp: 404364

Ion	Ratio	Lower	Upper
91	100		
120	23.7	17.3	25.9

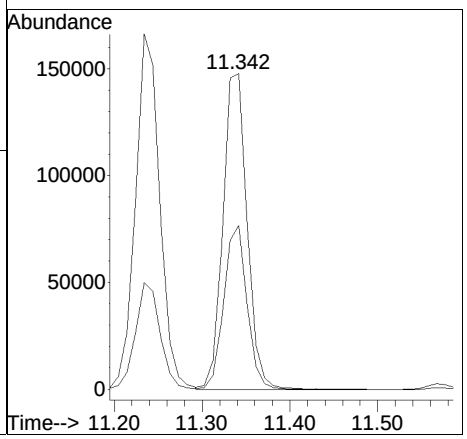


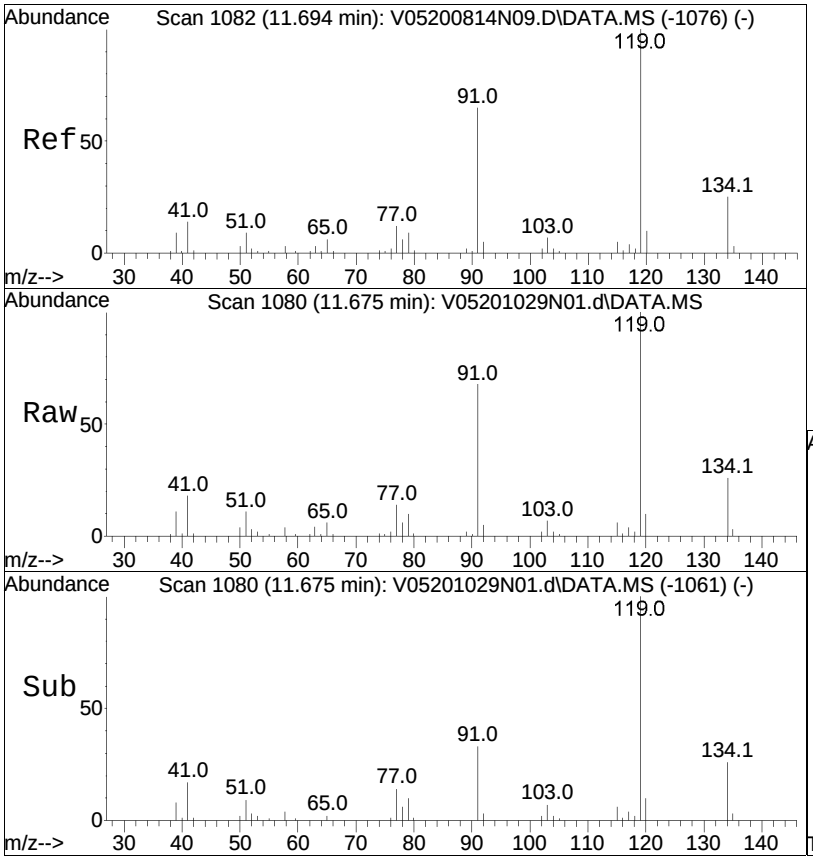


#90
1,3,5-Trimethylbenzene
Concen: 9.97 ug/L
RT: 11.342 min Scan# 1046
Delta R.T. -0.010 min
Lab File: V05201029N01.d
Acq: 29 Oct 2020 5:16 pm

Tgt Ion:105 Resp: 283421

Ion	Ratio	Lower	Upper
105	100		
120	49.8	37.0	55.6

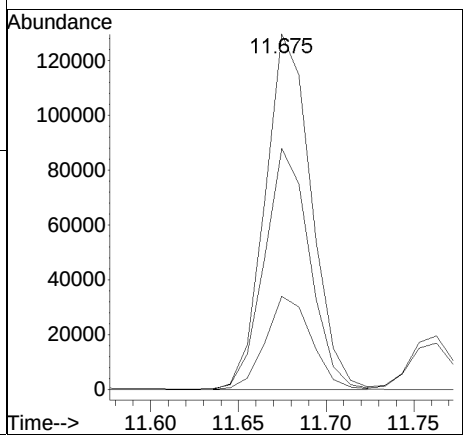


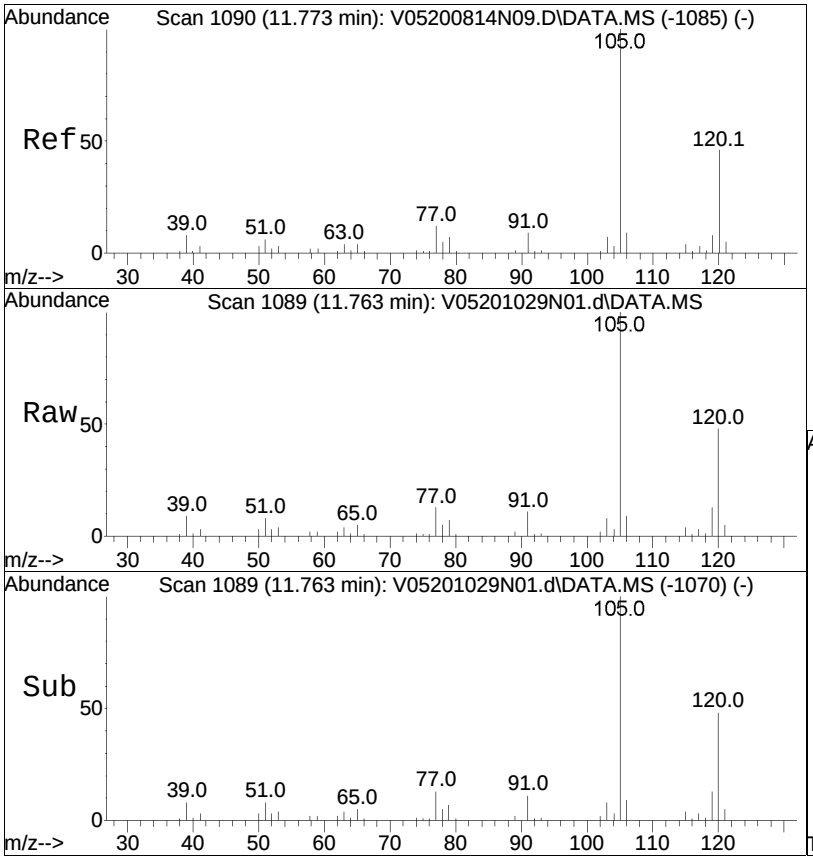


#94
tert-Butylbenzene
Concen: 9.42 ug/L
RT: 11.675 min Scan# 1080
Delta R.T. -0.010 min
Lab File: V05201029N01.d
Acq: 29 Oct 2020 5:16 pm

Tgt Ion:119 Resp: 237185

Ion	Ratio	Lower	Upper
119	100		
91	66.3	49.2	73.8
134	26.0	18.3	27.5

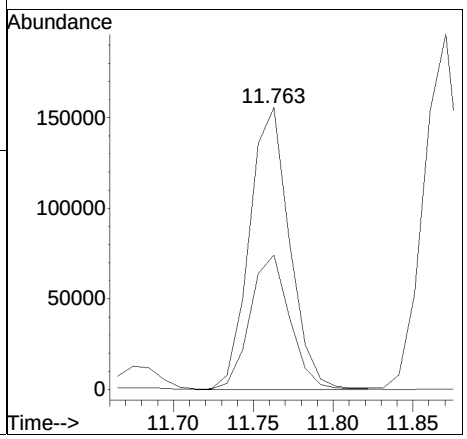


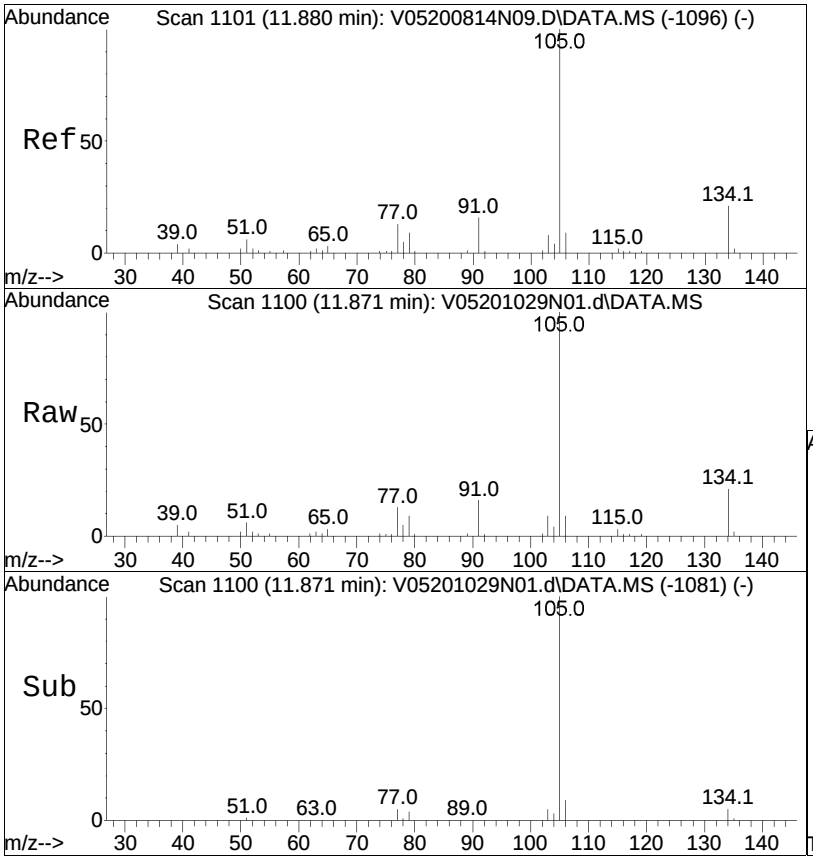


#97
1,2,4-Trimethylbenzene
Concen: 10.04 ug/L
RT: 11.763 min Scan# 1089
Delta R.T. -0.010 min
Lab File: V05201029N01.d
Acq: 29 Oct 2020 5:16 pm

Tgt Ion:105 Resp: 272546

Ion	Ratio	Lower	Upper
105	100		
120	47.2	34.4	51.6

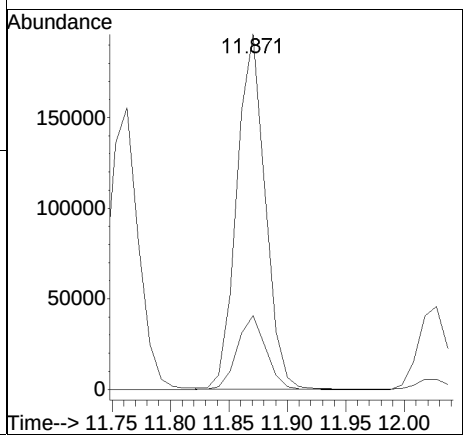


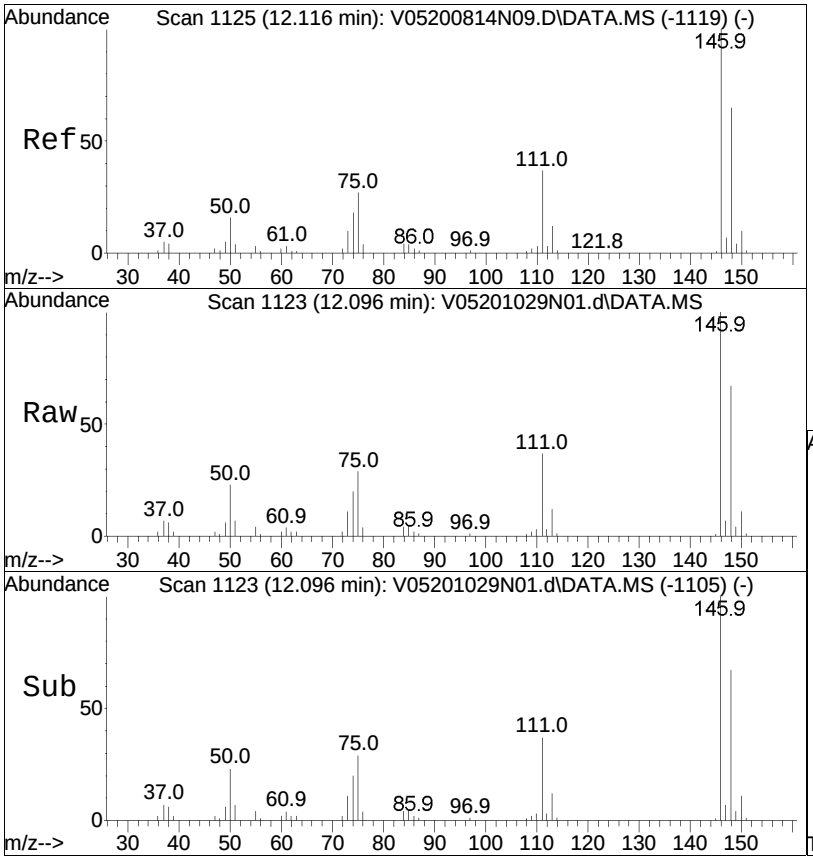


#98
sec-Butylbenzene
Concen: 9.73 ug/L
RT: 11.871 min Scan# 1100
Delta R.T. -0.010 min
Lab File: V05201029N01.d
Acq: 29 Oct 2020 5:16 pm

Tgt Ion:105 Resp: 330846

Ion	Ratio	Lower	Upper
105	100		
134	20.9	12.9	26.9

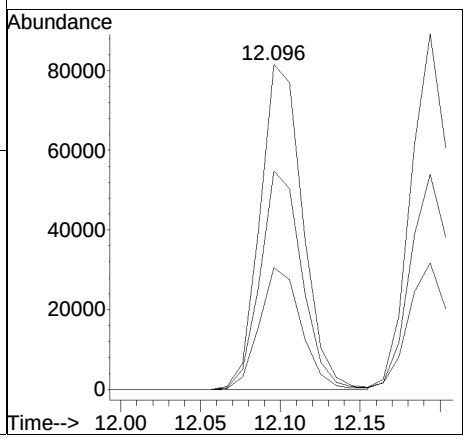


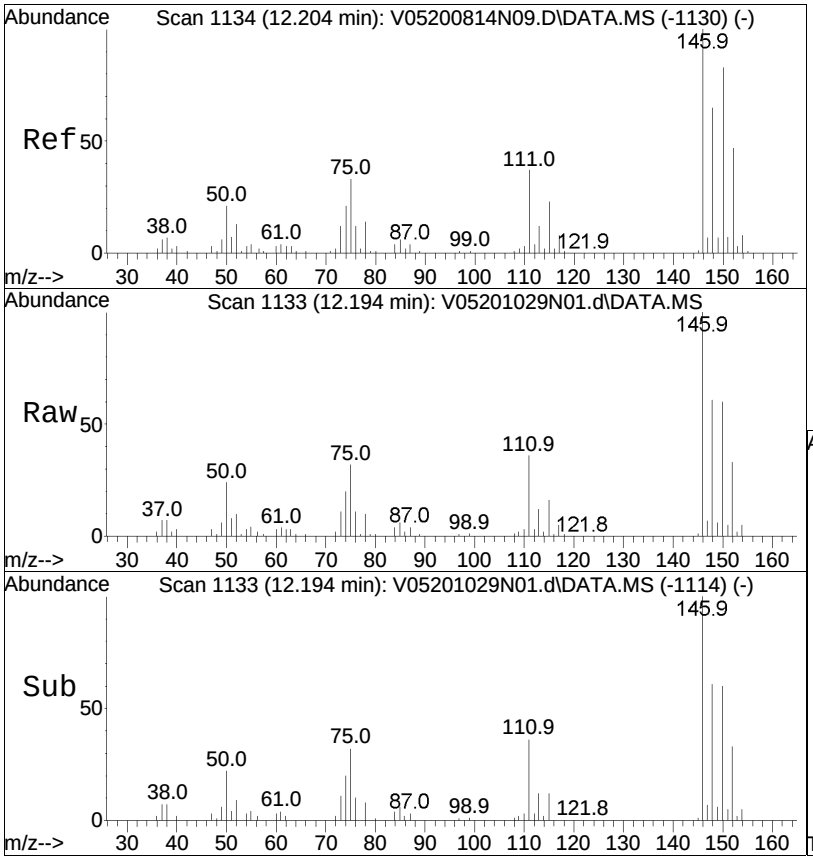


#100
1,3-Dichlorobenzene
Concen: 9.86 ug/L
RT: 12.096 min Scan# 1123
Delta R.T. -0.020 min
Lab File: V05201029N01.d
Acq: 29 Oct 2020 5:16 pm

Tgt Ion:146 Resp: 151427

Ion	Ratio	Lower	Upper
146	100		
111	36.7	28.0	58.1
148	65.8	41.6	86.4

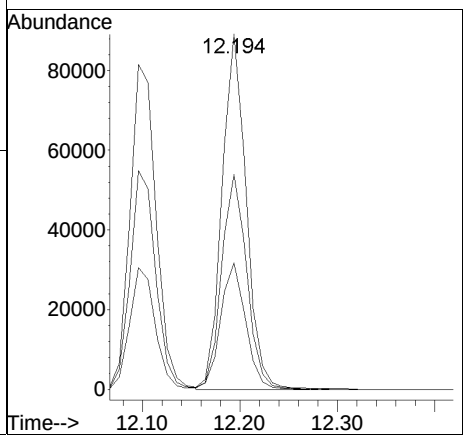


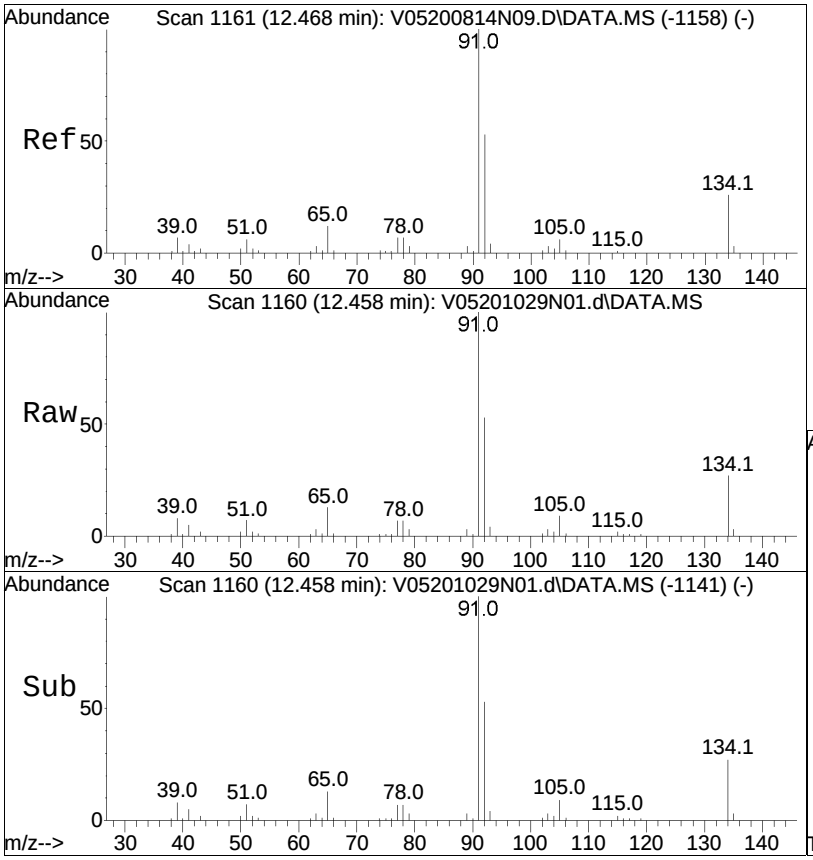


#101
1,4-Dichlorobenzene
Concen: 9.99 ug/L
RT: 12.194 min Scan# 1133
Delta R.T. -0.010 min
Lab File: V05201029N01.d
Acq: 29 Oct 2020 5:16 pm

Tgt Ion:146 Resp: 154347

Ion	Ratio	Lower	Upper
146	100		
111	36.9	33.8	50.6
148	62.5	51.0	76.6

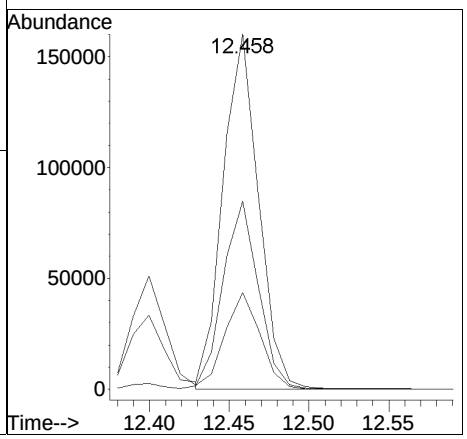


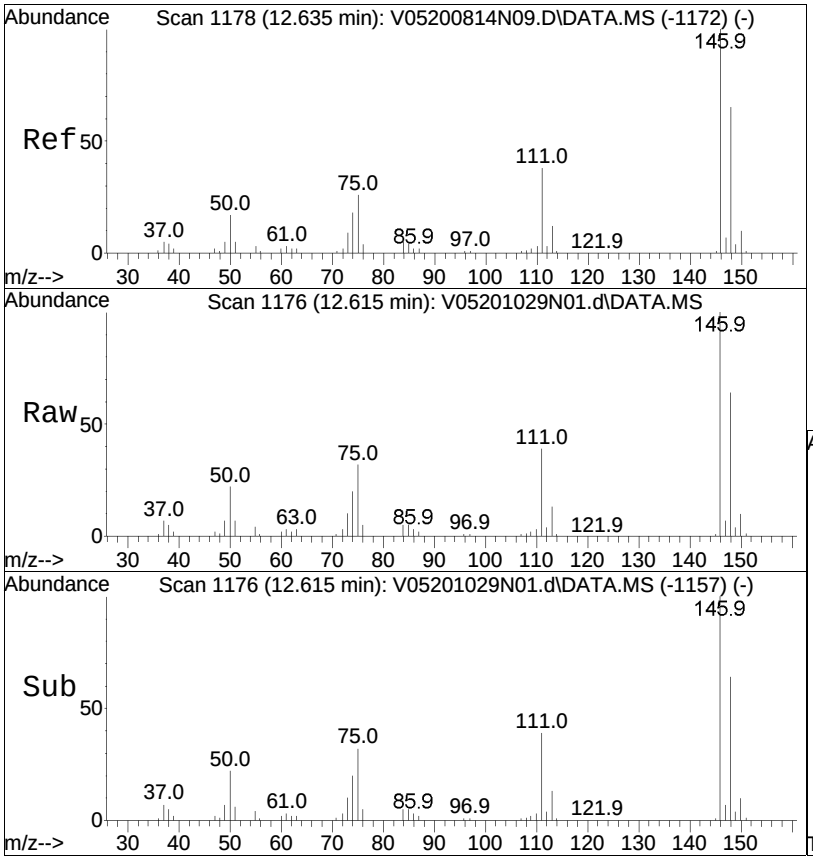


#103
n-Butylbenzene
Concen: 9.19 ug/L
RT: 12.458 min Scan# 1160
Delta R.T. -0.010 min
Lab File: V05201029N01.d
Acq: 29 Oct 2020 5:16 pm

Tgt Ion: 91 Resp: 247939

Ion	Ratio	Lower	Upper
91	100		
92	53.4	44.2	66.2
134	27.3	20.2	30.2

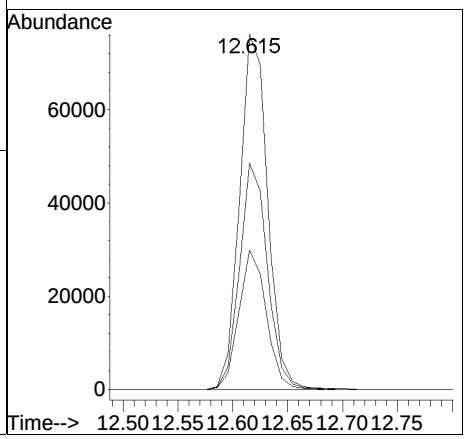




#104
1,2-Dichlorobenzene
Concen: 9.94 ug/L
RT: 12.615 min Scan# 1176
Delta R.T. -0.010 min
Lab File: V05201029N01.d
Acq: 29 Oct 2020 5:16 pm

Tgt Ion:146 Resp: 135480

Ion	Ratio	Lower	Upper
146	100		
111	38.4	29.1	60.5
148	63.2	41.7	86.7



Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\201028N\
Data File : V05201028N02.d
Acq On : 28 Oct 2020 6:21 pm
Operator : VOA105:TMS
Sample : WG1428076-4,31,10,10
Misc : WG1428076,ICAL17185
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 28 19:36:24 2020
Quant Method : I:\VOLATILES\VOA105\2020\201028N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\201028N\V05201028N01.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.948	96	332791	10.000	ug/L	0.00
Standard Area 1 = 321491			Recovery = 103.51%			
59) Chlorobenzene-d5	9.461	117	255912	10.000	ug/L	-0.01
Standard Area 1 = 246441			Recovery = 103.84%			
79) 1,4-Dichlorobenzene-d4	12.174	152	130156	10.000	ug/L	-0.02
Standard Area 1 = 126798			Recovery = 102.65%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.146	113	88510	9.807	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.07%			
43) 1,2-Dichloroethane-d4	5.674	65	107574	9.726	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.26%			
60) Toluene-d8	7.621	98	323515	10.209	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.09%			
83) 4-Bromofluorobenzene	10.969	95	118643	10.181	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.81%			
Target Compounds						Qvalue
4) Vinyl chloride	1.889	62	95327	11.818	ug/L	98
10) 1,1-Dichloroethene	2.926	96	62466	7.979	ug/L	88
15) Methylene chloride	3.474	84	65673	8.940	ug/L #	63
17) Acetone	3.523	43	13030	7.859	ug/L	96
18) trans-1,2-Dichloroethene	3.620	96	64508	9.392	ug/L	91
20) Methyl tert-butyl ether	3.708	73	137380	8.437	ug/L #	85
23) 1,1-Dichloroethane	4.198	63	138585	9.500	ug/L	96
28) cis-1,2-Dichloroethene	4.716	96	75666	8.985	ug/L	89
32) Chloroform	4.970	83	122131	8.874	ug/L #	94
34) Carbon tetrachloride	5.097	117	94292	8.947	ug/L	97
37) 1,1,1-Trichloroethane	5.166	97	111482	8.736	ug/L	93
39) 2-Butanone	5.273	43	18924	7.314	ug/L #	69
41) Benzene	5.528	78	268402	9.459	ug/L #	91
44) 1,2-Dichloroethane	5.743	62	94575	8.894	ug/L	98
48) Trichloroethene	6.124	95	73349	8.829	ug/L	96
57) 1,4-Dioxane	6.946	88	21169	413.640	ug/L #	82
61) Toluene	7.680	92	174921	9.462	ug/L	99
63) Tetrachloroethene	8.120	166	85387	9.735	ug/L	91
73) Chlorobenzene	9.480	112	185597	8.919	ug/L	94
74) Ethylbenzene	9.510	91	330631	8.979	ug/L	94

Data Path : I:\VOLATILES\VOA105\2020\201028N\
Data File : V05201028N02.d
Acq On : 28 Oct 2020 6:21 pm
Operator : VOA105:TMS
Sample : WG1428076-4,31,10,10
Misc : WG1428076,ICAL17185
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 28 19:36:24 2020
Quant Method : I:\VOLATILES\VOA105\2020\201028N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\201028N\V05201028N01.d
Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	p/m Xylene	9.696	106	258705	17.924	ug/L	87
77)	o Xylene	10.244	106	234679	17.942	ug/L	86
85)	n-Propylbenzene	11.116	91	390231	9.550	ug/L	96
90)	1,3,5-Trimethylbenzene	11.342	105	270320	9.509	ug/L	95
94)	tert-Butylbenzene	11.675	119	233894	9.285	ug/L	95
97)	1,2,4-Trimethylbenzene	11.763	105	256521	9.446	ug/L	94
98)	sec-Butylbenzene	11.871	105	320923	9.435	ug/L	98
100)	1,3-Dichlorobenzene	12.096	146	145438	9.474	ug/L	96
101)	1,4-Dichlorobenzene	12.194	146	145415	9.410	ug/L	97
103)	n-Butylbenzene	12.458	91	238799	8.852	ug/L	98
104)	1,2-Dichlorobenzene	12.615	146	132162	9.699	ug/L	95

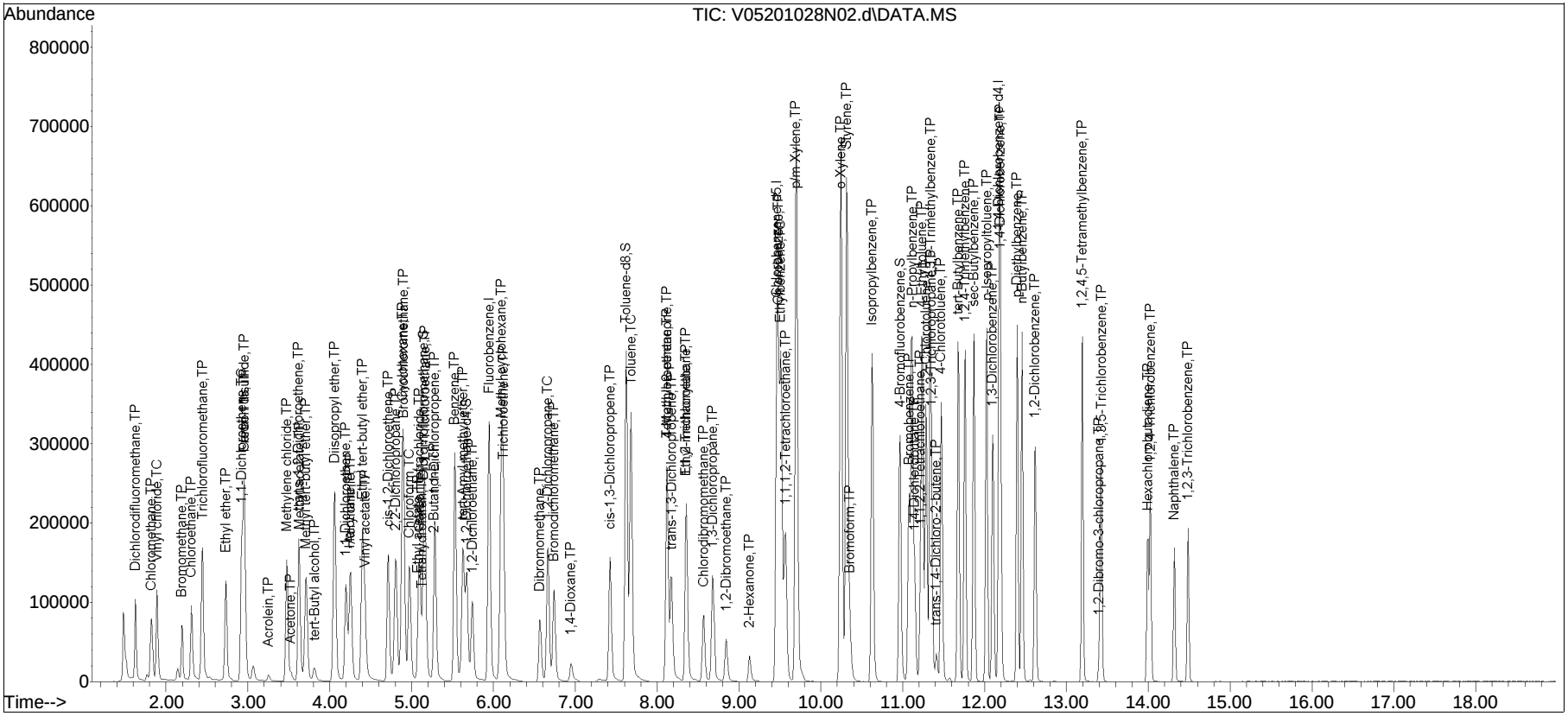
(#) = qualifier out of range (m) = manual integration (+) = signals summed

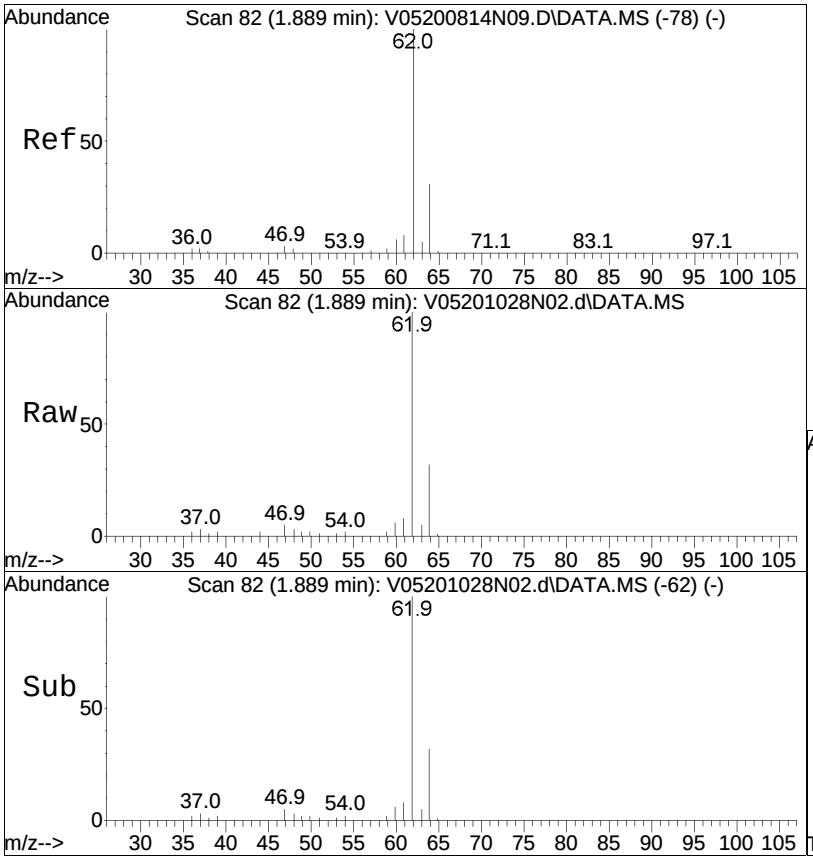
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\201028N\
Data File : V05201028N02.d
Acq On : 28 Oct 2020 6:21 pm
Operator : VOA105:TMS
Sample : WG1428076-4,31,10,10
Misc : WG1428076,ICAL17185
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 28 19:36:24 2020
Quant Method : I:\VOLATILES\VOA105\2020\201028N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

Sub List : 8260-Curve-IM-2CEVE - Megamix plus Diox-Iodomethane•

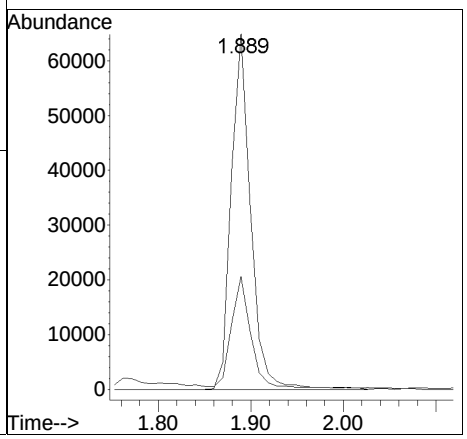


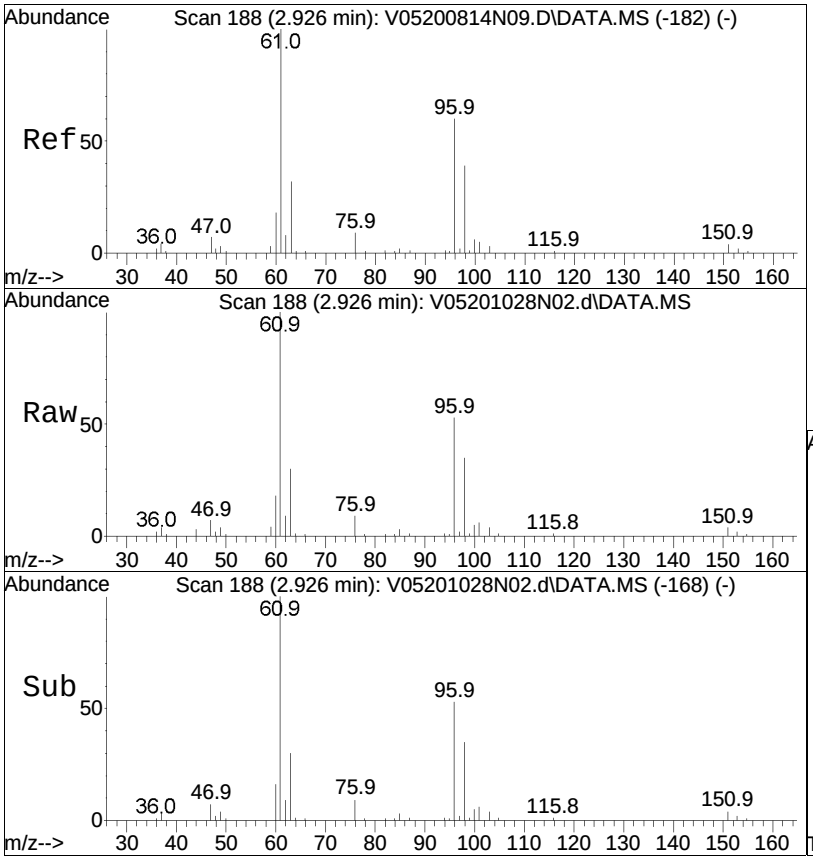


#4
Vinyl chloride
Concen: 11.82 ug/L
RT: 1.889 min Scan# 82
Delta R.T. 0.000 min
Lab File: V05201028N02.d
Acq: 28 Oct 2020 6:21 pm

Tgt Ion: 62 Resp: 95327

Ion	Ratio	Lower	Upper
62	100		
64	32.1	13.5	53.5

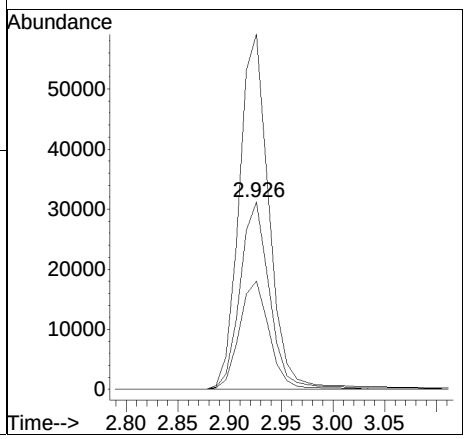


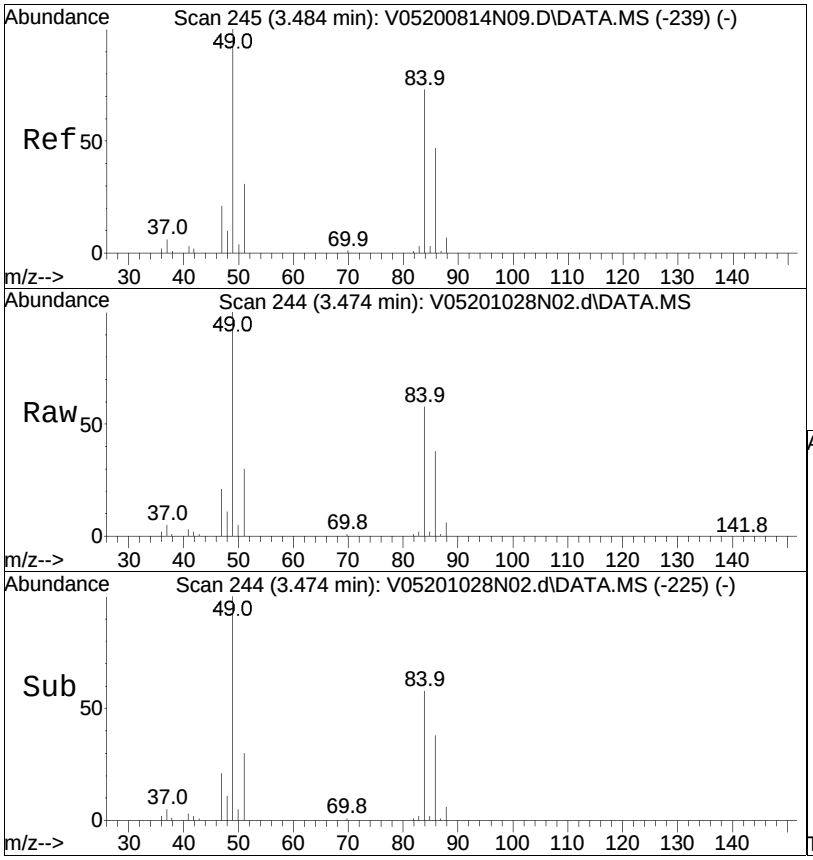


#10
1,1-Dichloroethene
Concen: 7.98 ug/L
RT: 2.926 min Scan# 188
Delta R.T. 0.000 min
Lab File: V05201028N02.d
Acq: 28 Oct 2020 6:21 pm

Tgt Ion: 96 Resp: 62466

Ion	Ratio	Lower	Upper
96	100		
61	191.8	136.7	205.1
63	58.8	45.0	67.6

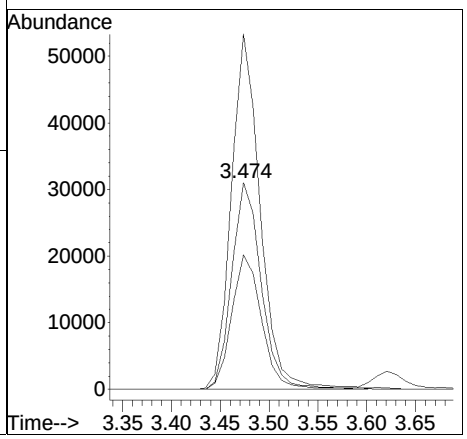


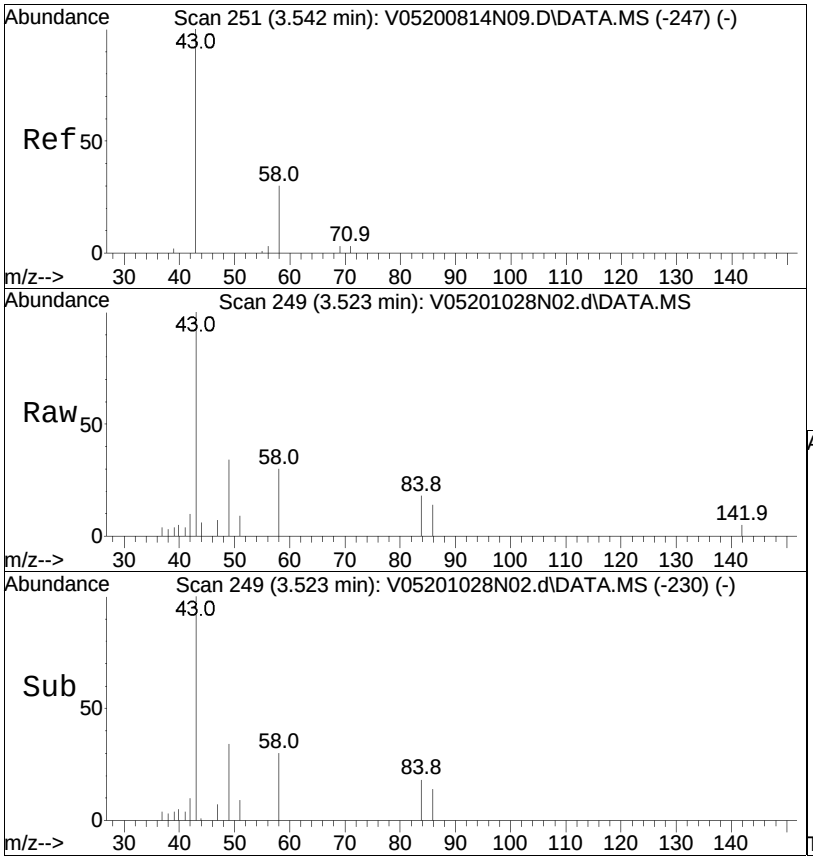


#15
Methylene chloride
Concen: 8.94 ug/L
RT: 3.474 min Scan# 244
Delta R.T. -0.010 min
Lab File: V05201028N02.d
Acq: 28 Oct 2020 6:21 pm

Tgt Ion: 84 Resp: 65673

Ion	Ratio	Lower	Upper
84	100		
86	65.9	42.1	87.5
49	166.9	69.3	143.9#

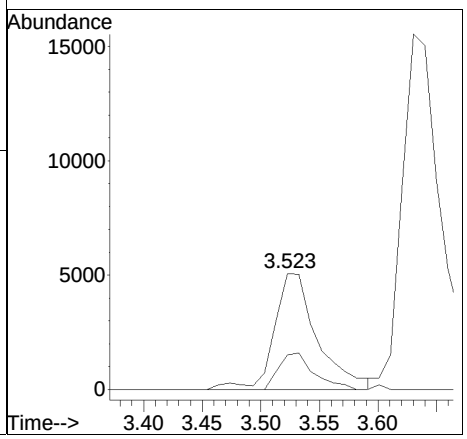


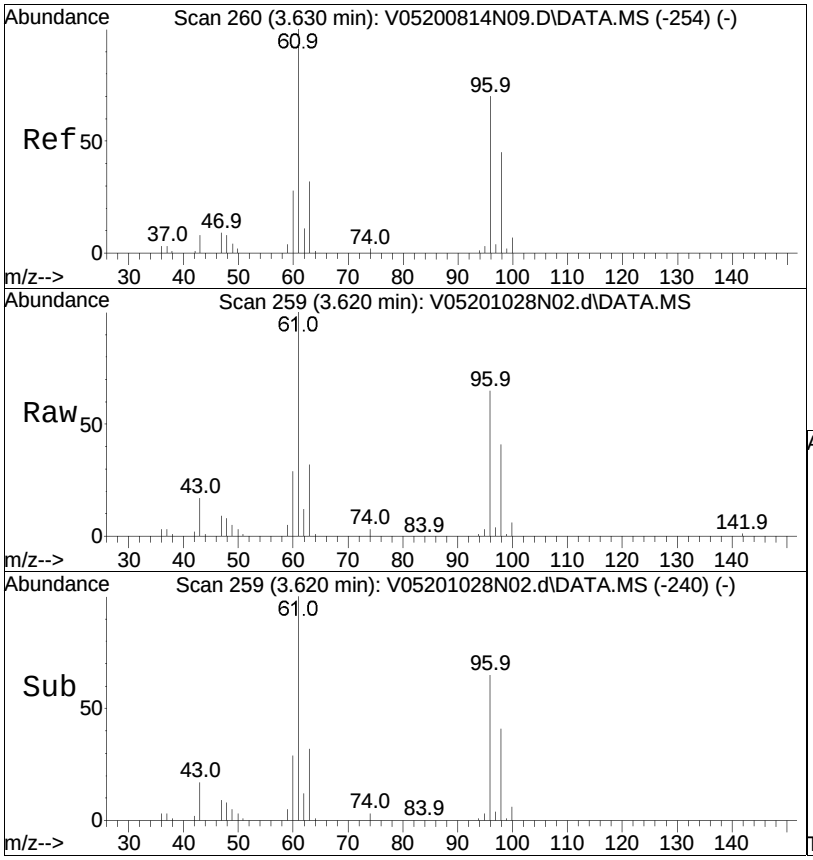


#17
Acetone
Concen: 7.86 ug/L
RT: 3.523 min Scan# 249
Delta R.T. -0.010 min
Lab File: V05201028N02.d
Acq: 28 Oct 2020 6:21 pm

Tgt Ion: 43 Resp: 13030

Ion	Ratio	Lower	Upper
43	100		
58	25.5	22.0	33.0

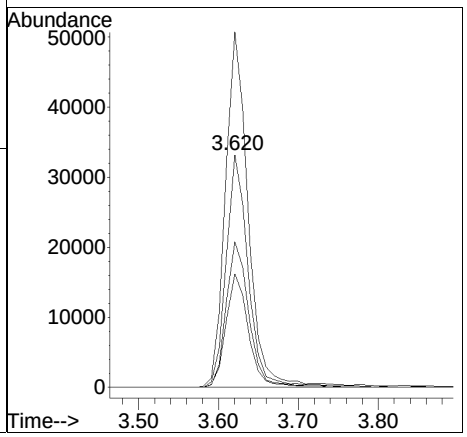


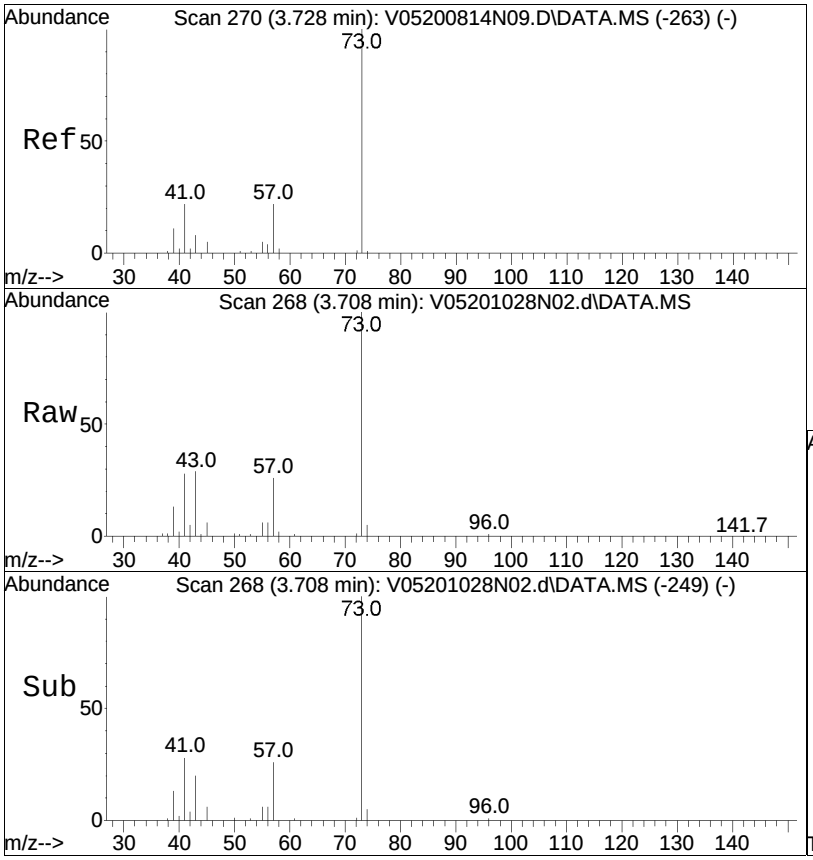


#18
trans-1,2-Dichloroethene
Concen: 9.39 ug/L
RT: 3.620 min Scan# 259
Delta R.T. -0.010 min
Lab File: V05201028N02.d
Acq: 28 Oct 2020 6:21 pm

Tgt Ion: 96 Resp: 64508

Ion	Ratio	Lower	Upper
96	100		
61	157.3	91.7	190.5
98	64.2	41.1	85.5
63	50.1	29.4	61.0

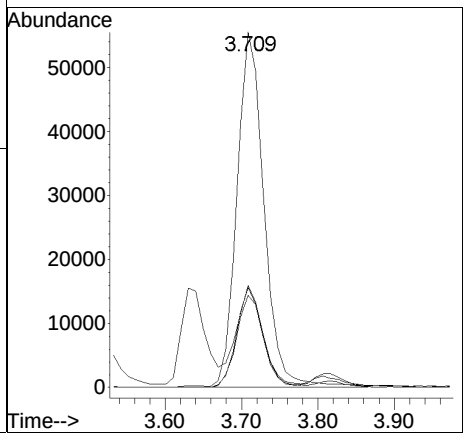


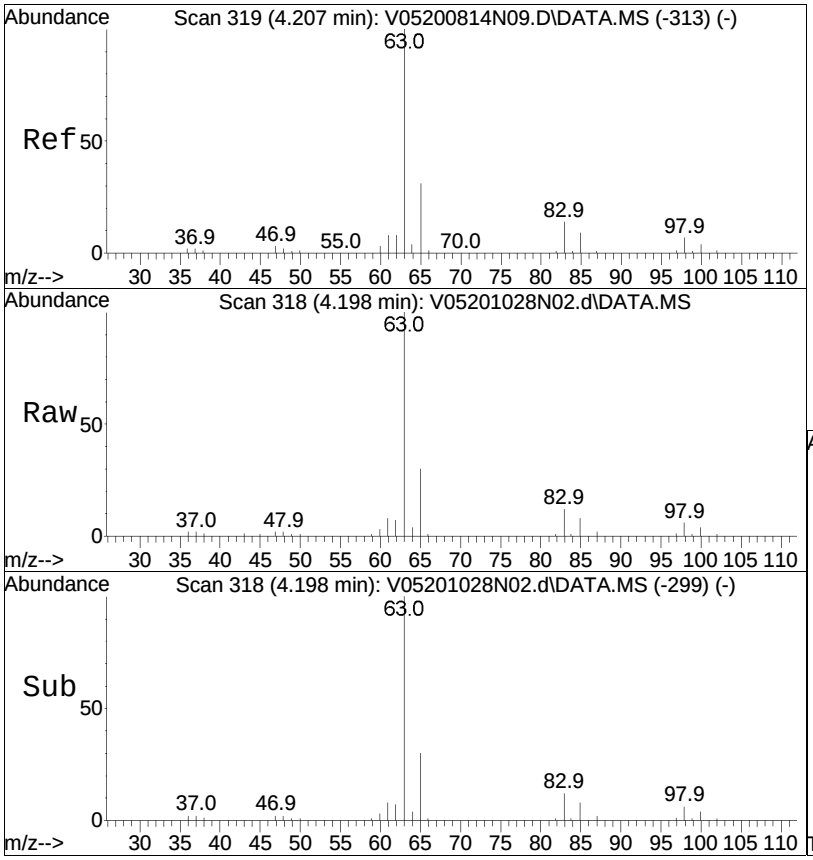


#20
Methyl tert-butyl ether
Concen: 8.44 ug/L
RT: 3.708 min Scan# 268
Delta R.T. -0.010 min
Lab File: V05201028N02.d
Acq: 28 Oct 2020 6:21 pm

Tgt Ion: 73 Resp: 137380

Ion	Ratio	Lower	Upper
73	100		
57	25.8	11.8	24.6#
43	27.1	13.5	27.9
41	27.1	13.3	27.5

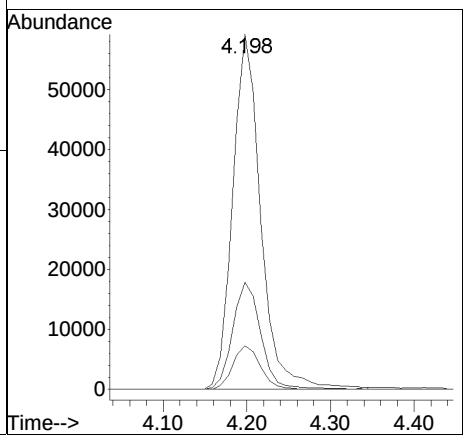


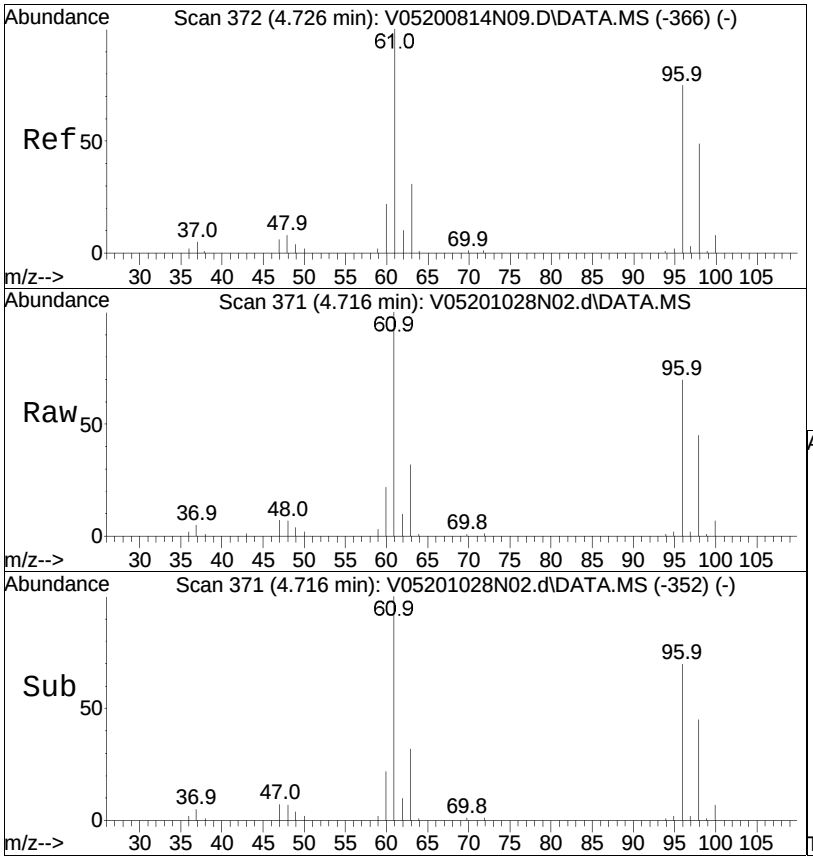


#23
1,1-Dichloroethane
Concen: 9.50 ug/L
RT: 4.198 min Scan# 318
Delta R.T. -0.009 min
Lab File: V05201028N02.d
Acq: 28 Oct 2020 6:21 pm

Tgt Ion: 63 Resp: 138585

Ion	Ratio	Lower	Upper
63	100		
65	30.4	11.9	51.9
83	12.0	0.0	34.2

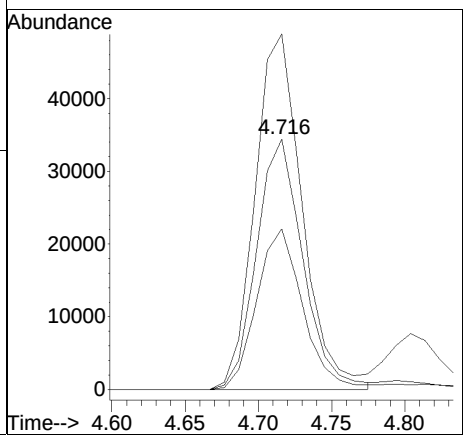


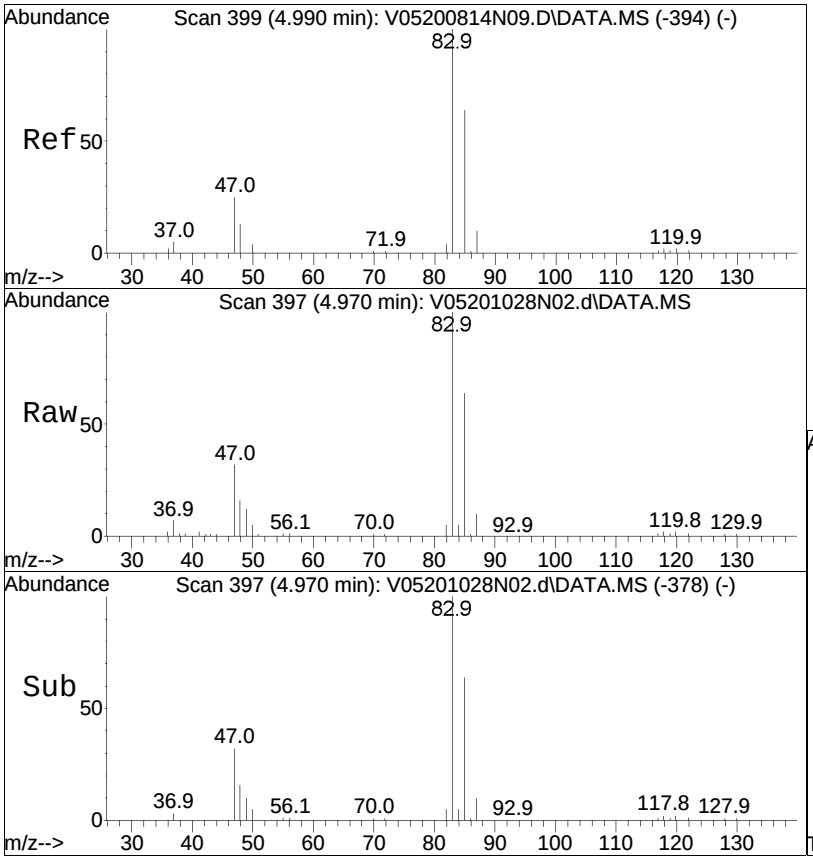


#28
cis-1,2-Dichloroethene
Concen: 8.98 ug/L
RT: 4.716 min Scan# 371
Delta R.T. -0.010 min
Lab File: V05201028N02.d
Acq: 28 Oct 2020 6:21 pm

Tgt Ion: 96 Resp: 75666

Ion	Ratio	Lower	Upper
96	100		
61	143.4	100.5	150.7
98	63.7	49.8	74.8

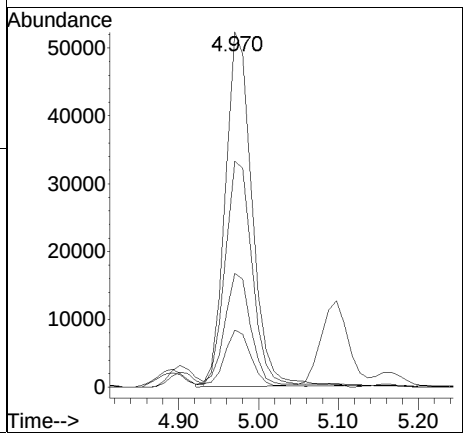


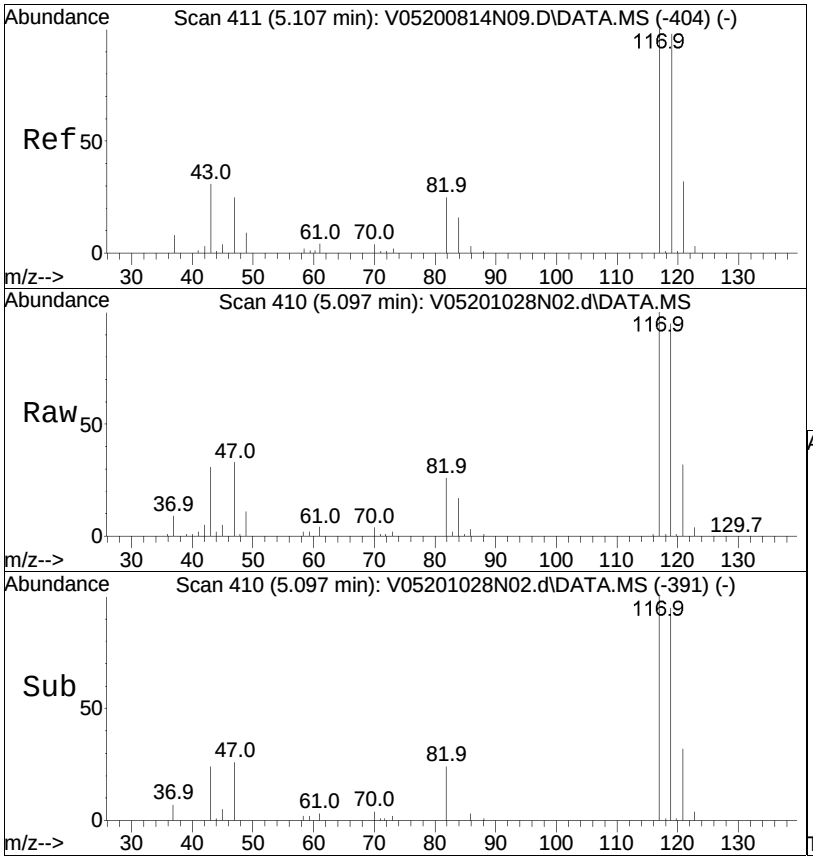


#32
Chloroform
Concen: 8.87 ug/L
RT: 4.970 min Scan# 397
Delta R.T. -0.010 min
Lab File: V05201028N02.d
Acq: 28 Oct 2020 6:21 pm

Tgt Ion: 83 Resp: 122131

Ion	Ratio	Lower	Upper
83	100		
85	64.9	42.8	89.0
47	29.9	13.7	28.4#
48	15.6	6.9	14.3#

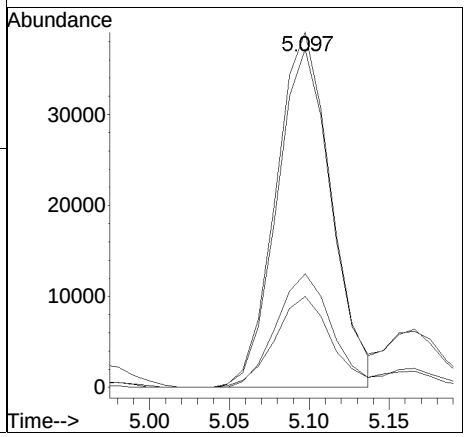


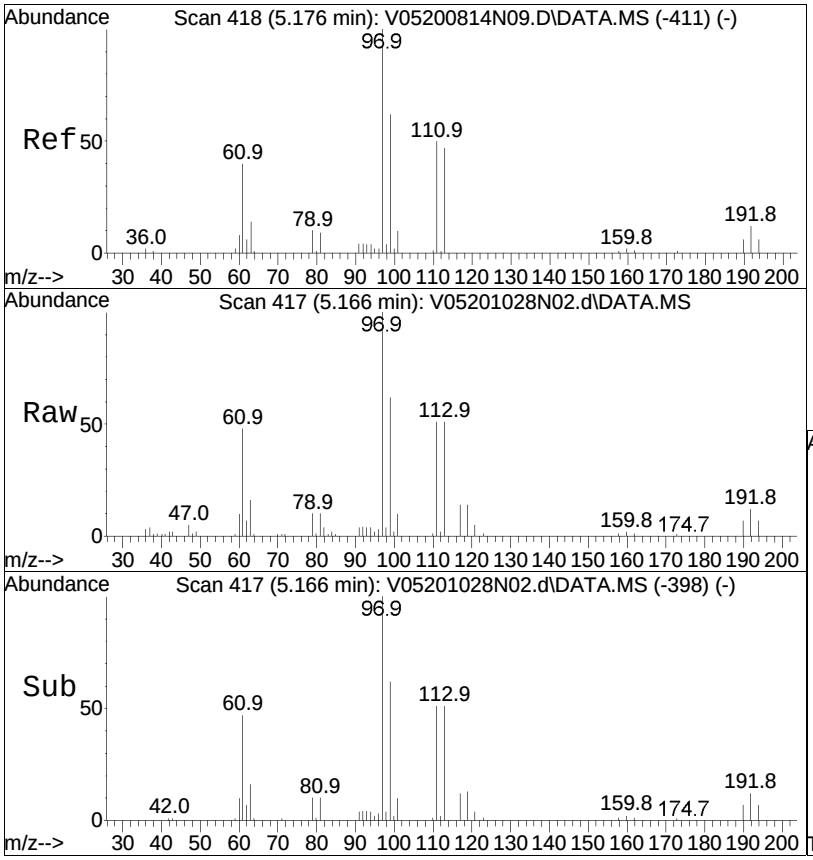


#34
Carbon tetrachloride
Concen: 8.95 ug/L
RT: 5.097 min Scan# 410
Delta R.T. -0.010 min
Lab File: V05201028N02.d
Acq: 28 Oct 2020 6:21 pm

Tgt Ion:117 Resp: 94292

Ion	Ratio	Lower	Upper
117	100		
119	94.7	63.6	132.2
121	31.9	19.8	41.0
82	26.1	15.9	32.9

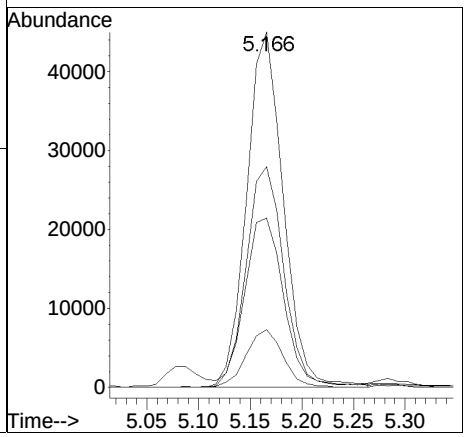


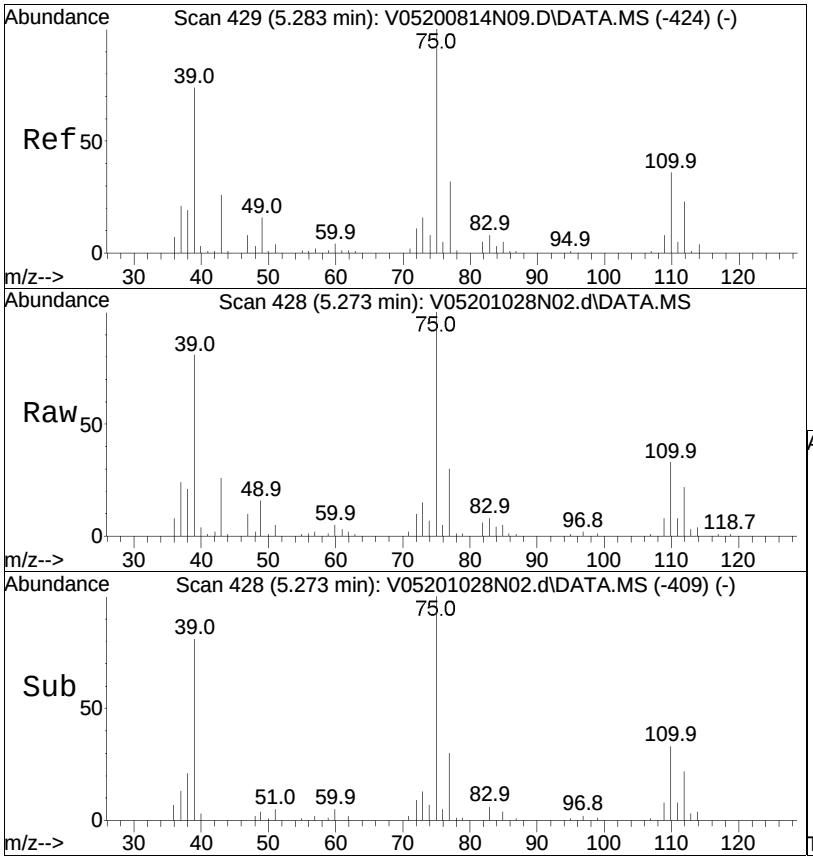


#37
1,1,1-Trichloroethane
Concen: 8.74 ug/L
RT: 5.166 min Scan# 417
Delta R.T. -0.010 min
Lab File: V05201028N02.d
Acq: 28 Oct 2020 6:21 pm

Tgt Ion: 97 Resp: 111482

Ion	Ratio	Lower	Upper
97	100		
99	64.7	41.7	86.5
61	50.4	26.1	54.3
63	16.6	8.5	17.6

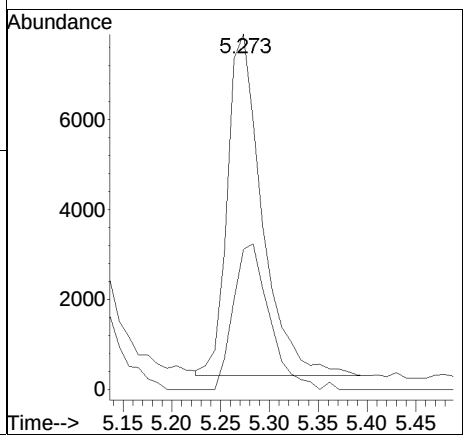


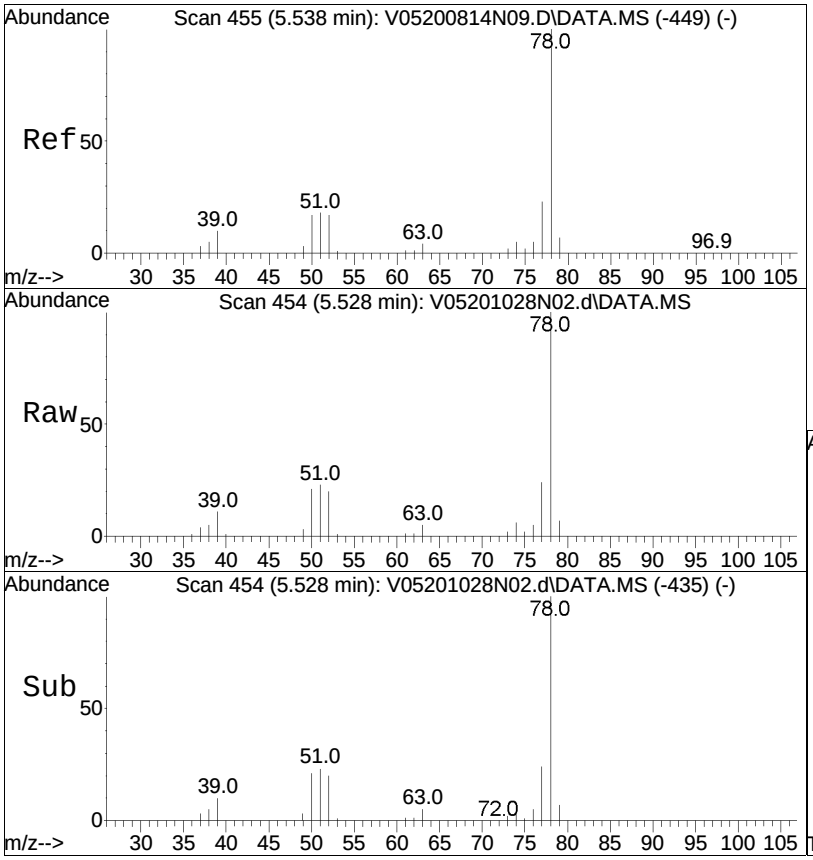


#39
2-Butanone
Concen: 7.31 ug/L
RT: 5.273 min Scan# 428
Delta R.T. -0.010 min
Lab File: V05201028N02.d
Acq: 28 Oct 2020 6:21 pm

Tgt Ion: 43 Resp: 18924

Ion	Ratio	Lower	Upper
43	100		
72	44.2	55.6	83.4#

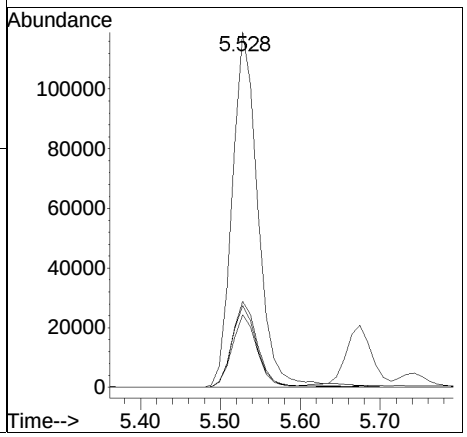


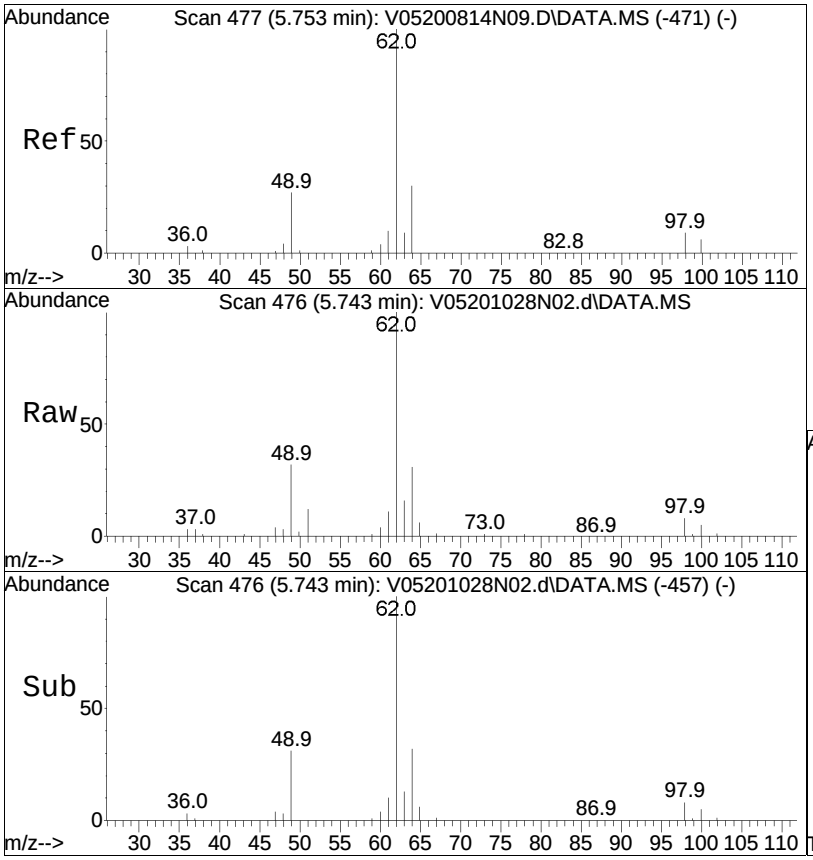


#41
Benzene
Concen: 9.46 ug/L
RT: 5.528 min Scan# 454
Delta R.T. -0.010 min
Lab File: V05201028N02.d
Acq: 28 Oct 2020 6:21 pm

Tgt Ion: 78 Resp: 268402

Ion	Ratio	Lower	Upper
78	100		
77	24.2	15.2	31.6
51	22.2	10.5	21.7#
52	20.4	9.5	19.7#

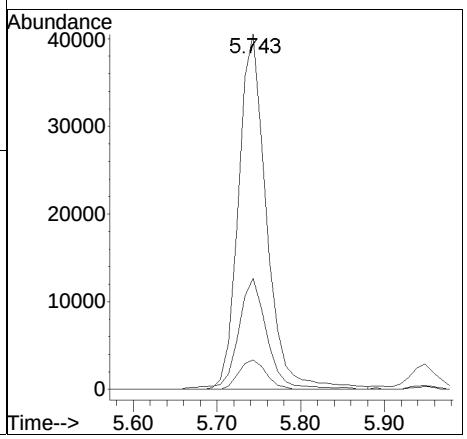


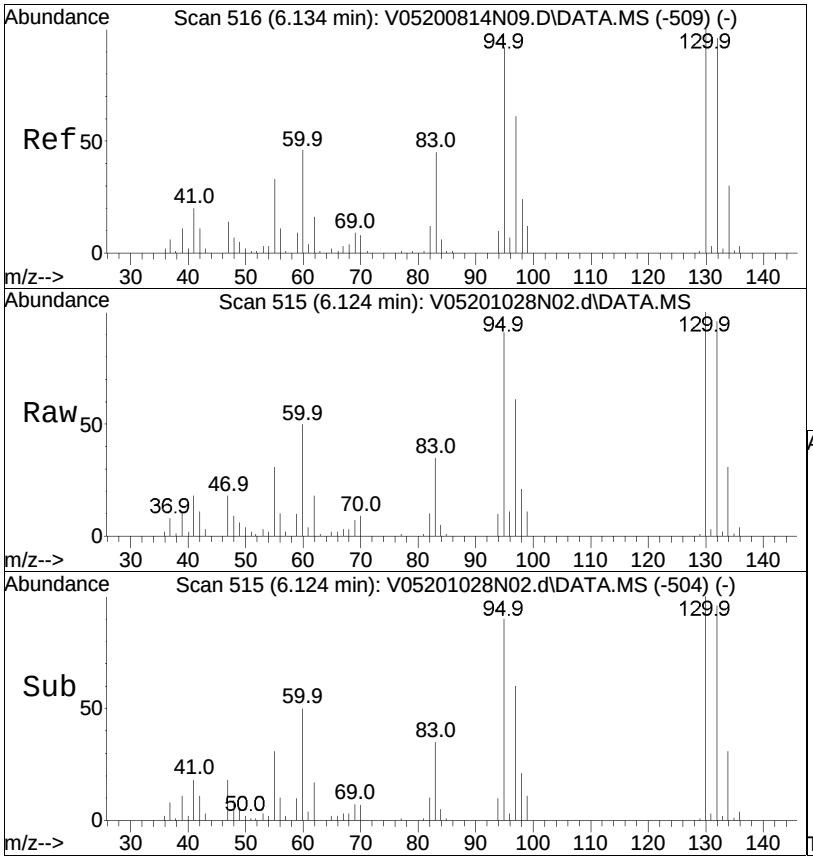


#44
1,2-Dichloroethane
Concen: 8.89 ug/L
RT: 5.743 min Scan# 476
Delta R.T. -0.010 min
Lab File: V05201028N02.d
Acq: 28 Oct 2020 6:21 pm

Tgt Ion: 62 Resp: 94575

Ion	Ratio	Lower	Upper
62	100		
64	32.2	13.2	53.2
98	8.1	0.0	27.8

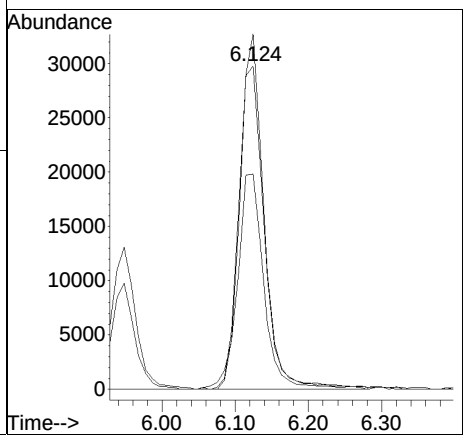


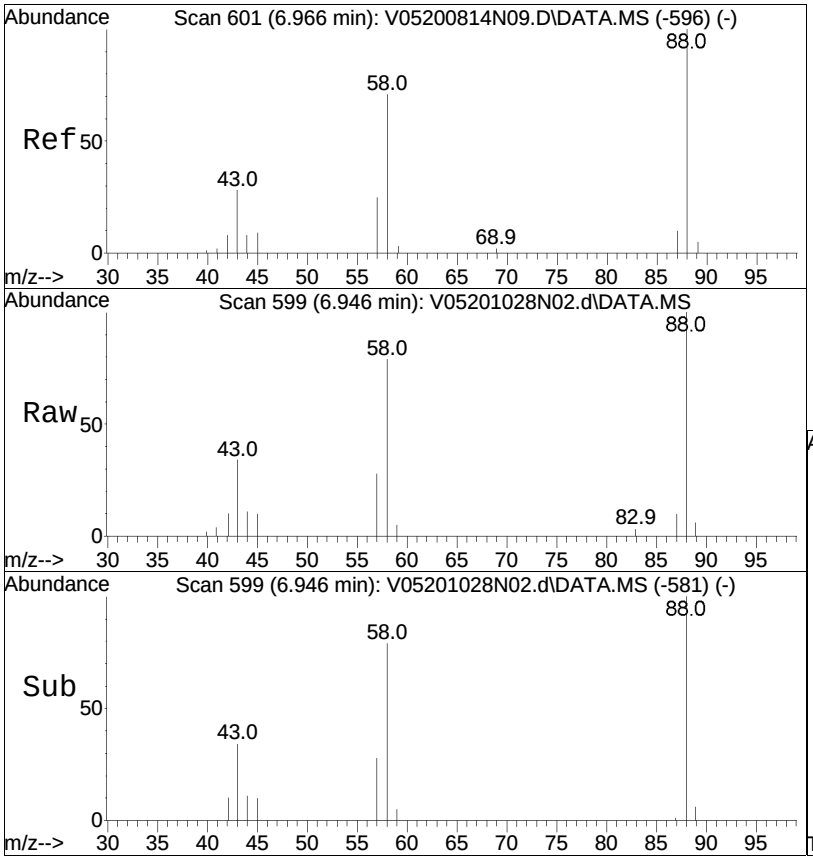


#48
Trichloroethene
Concen: 8.83 ug/L
RT: 6.124 min Scan# 515
Delta R.T. -0.010 min
Lab File: V05201028N02.d
Acq: 28 Oct 2020 6:21 pm

Tgt Ion: 95 Resp: 73349

Ion	Ratio	Lower	Upper
95	100		
97	67.6	56.1	84.1
130	102.0	77.7	116.5

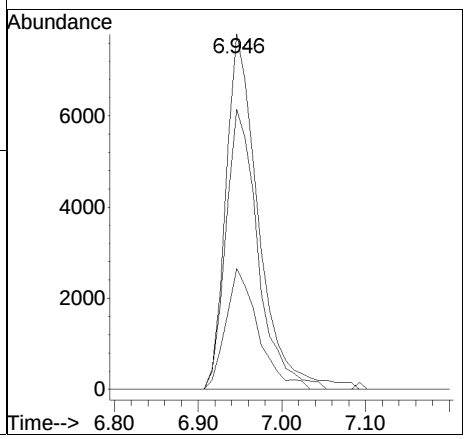


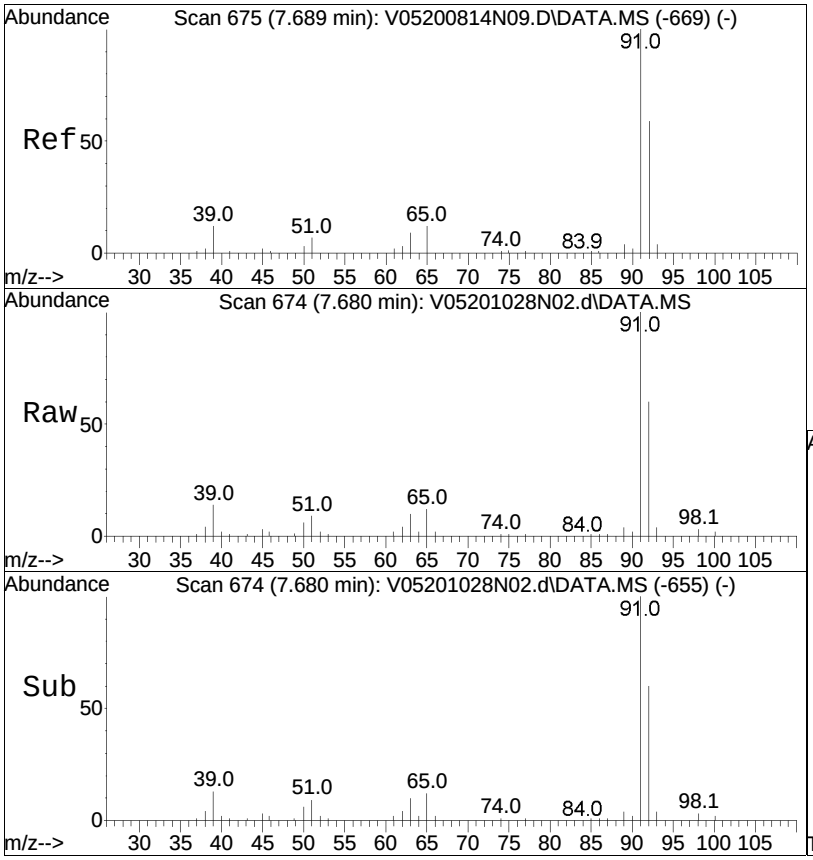


#57
1,4-Dioxane
Concen: 413.64 ug/L
RT: 6.946 min Scan# 599
Delta R.T. -0.020 min
Lab File: V05201028N02.d
Acq: 28 Oct 2020 6:21 pm

Tgt Ion: 88 Resp: 21169

Ion	Ratio	Lower	Upper
88	100		
58	77.9	50.6	75.8#
43	33.8	20.5	30.7#

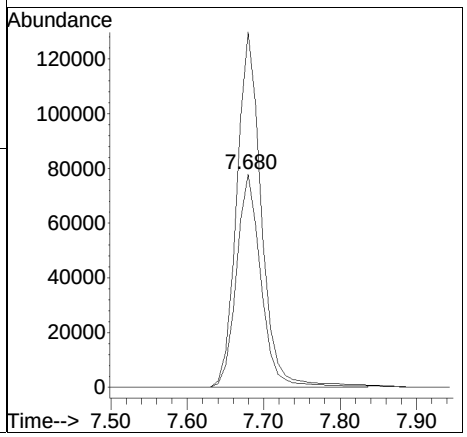


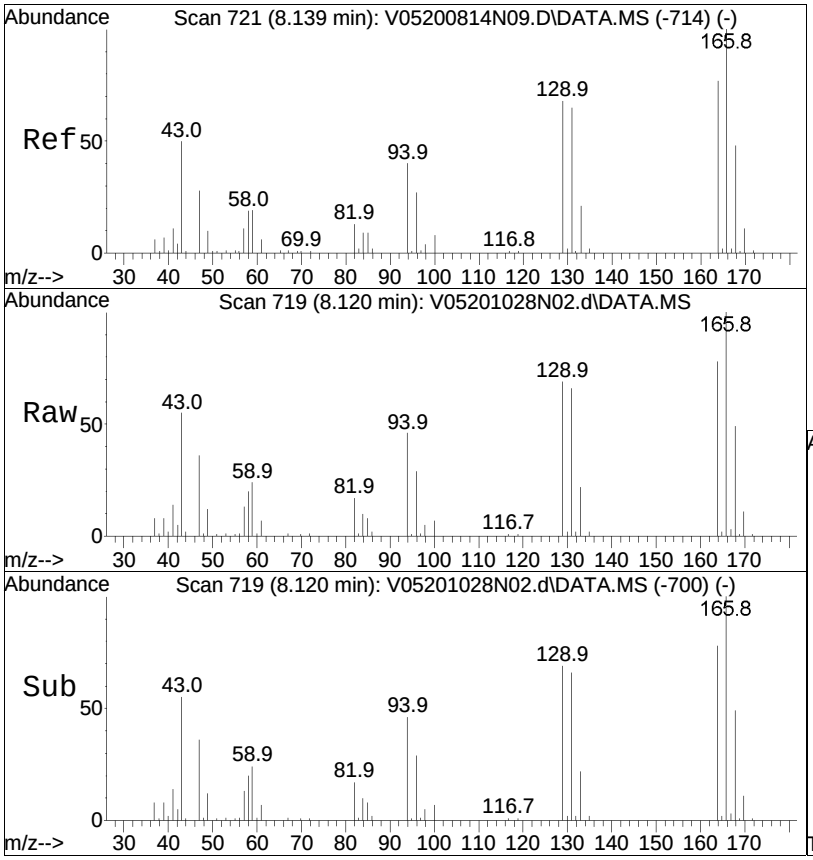


#61
Toluene
Concen: 9.46 ug/L
RT: 7.680 min Scan# 674
Delta R.T. -0.010 min
Lab File: V05201028N02.d
Acq: 28 Oct 2020 6:21 pm

Tgt Ion: 92 Resp: 174921

Ion	Ratio	Lower	Upper
92	100		
91	167.1	135.2	202.8

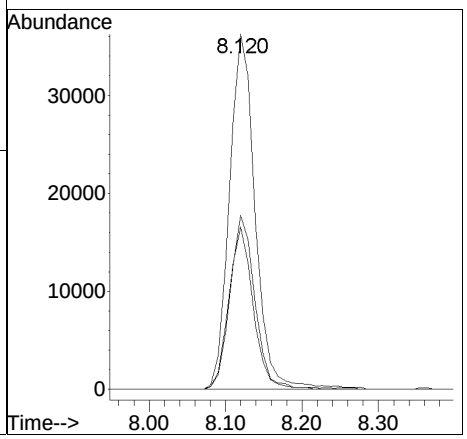


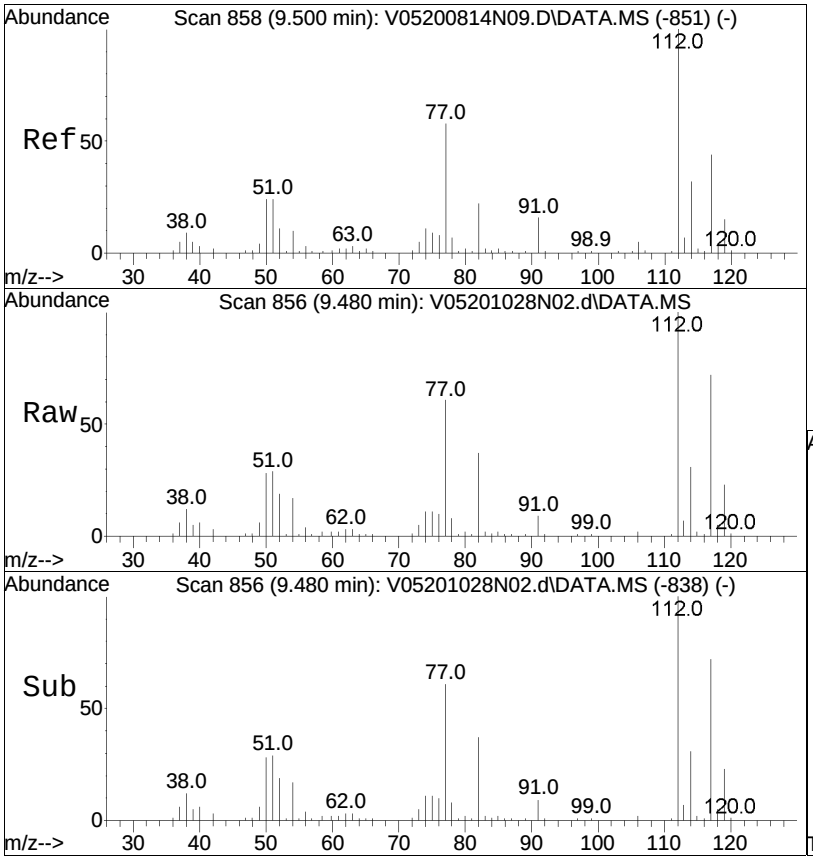


#63
Tetrachloroethene
Concen: 9.74 ug/L
RT: 8.120 min Scan# 719
Delta R.T. -0.010 min
Lab File: V05201028N02.d
Acq: 28 Oct 2020 6:21 pm

Tgt Ion:166 Resp: 85387

Ion	Ratio	Lower	Upper
166	100		
168	47.2	30.2	70.2
94	43.2	32.5	72.5

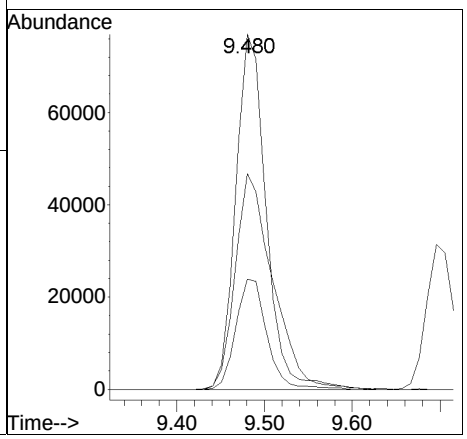


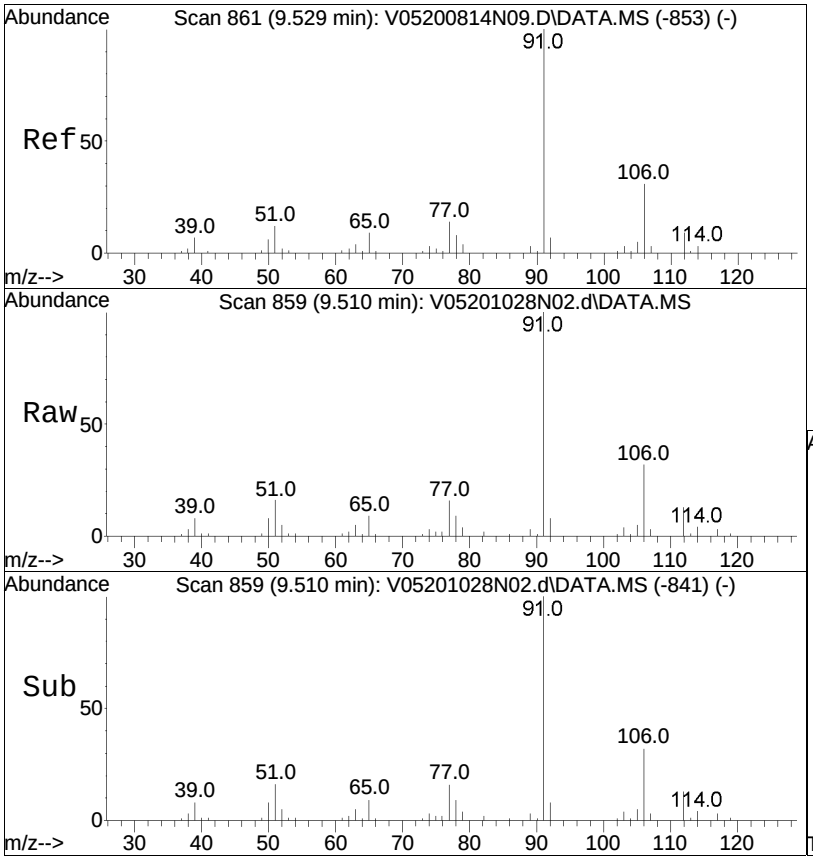


#73
Chlorobenzene
Concen: 8.92 ug/L
RT: 9.480 min Scan# 856
Delta R.T. -0.020 min
Lab File: V05201028N02.d
Acq: 28 Oct 2020 6:21 pm

Tgt Ion:112 Resp: 185597

Ion	Ratio	Lower	Upper
112	100		
77	74.8	66.1	99.1
114	31.8	25.4	38.0

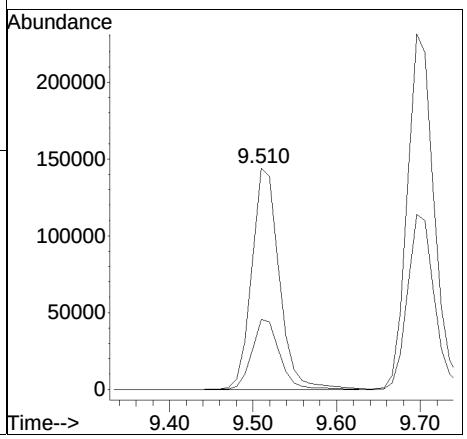


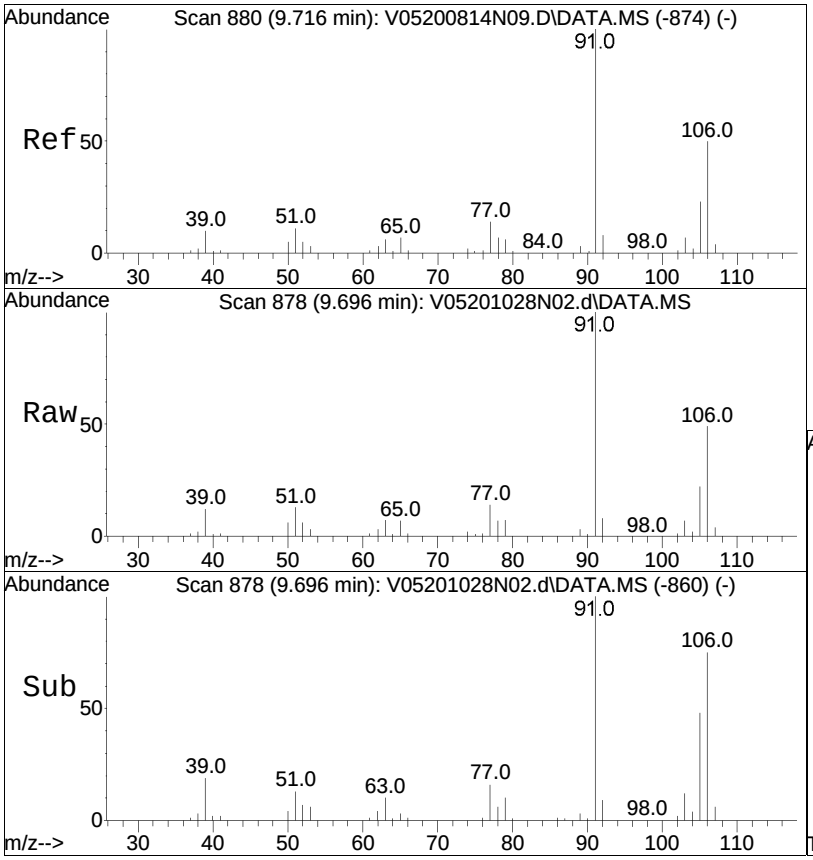


#74
Ethylbenzene
Concen: 8.98 ug/L
RT: 9.510 min Scan# 859
Delta R.T. -0.019 min
Lab File: V05201028N02.d
Acq: 28 Oct 2020 6:21 pm

Tgt Ion: 91 Resp: 330631

Ion	Ratio	Lower	Upper
91	100		
106	31.6	22.9	34.3

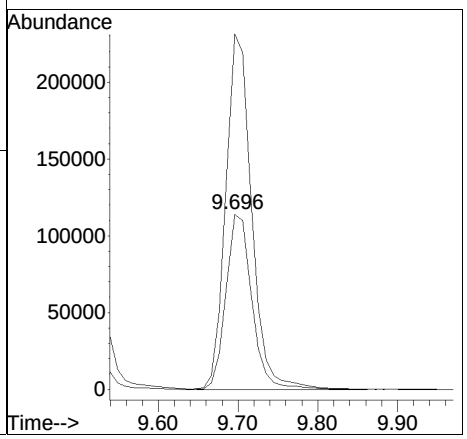


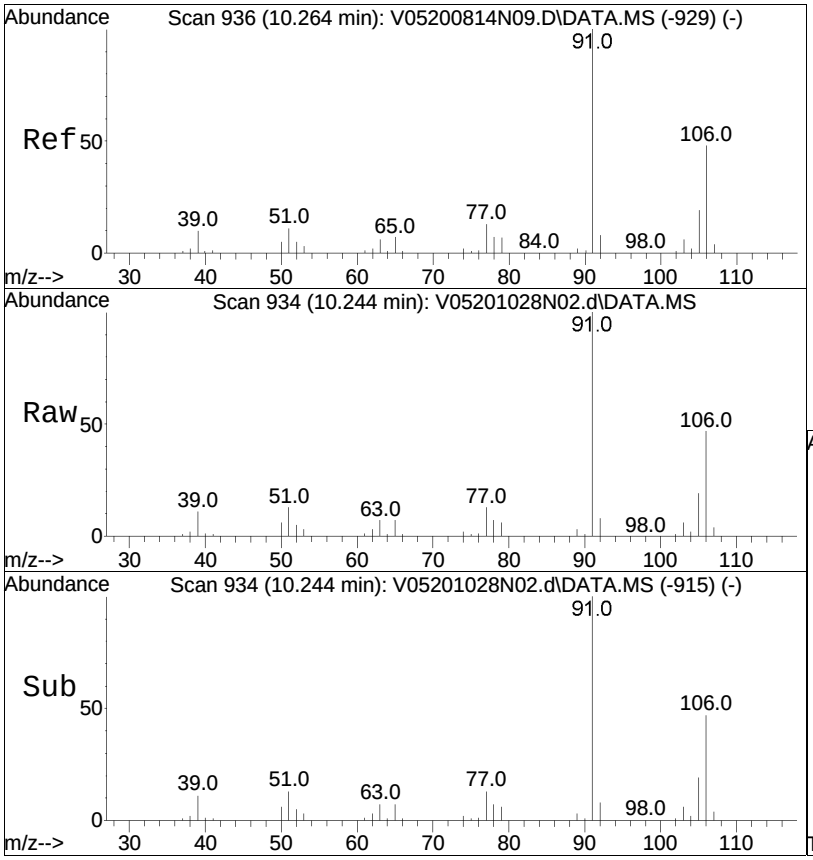


#76
p/m Xylene
Concen: 17.92 ug/L
RT: 9.696 min Scan# 878
Delta R.T. -0.020 min
Lab File: V05201028N02.d
Acq: 28 Oct 2020 6:21 pm

Tgt Ion:106 Resp: 258705

Ion	Ratio	Lower	Upper
106	100		
91	200.5	177.2	265.8

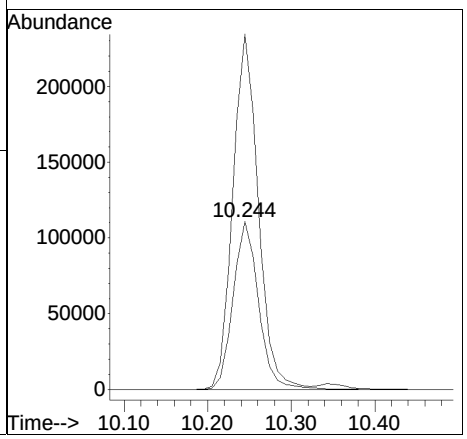


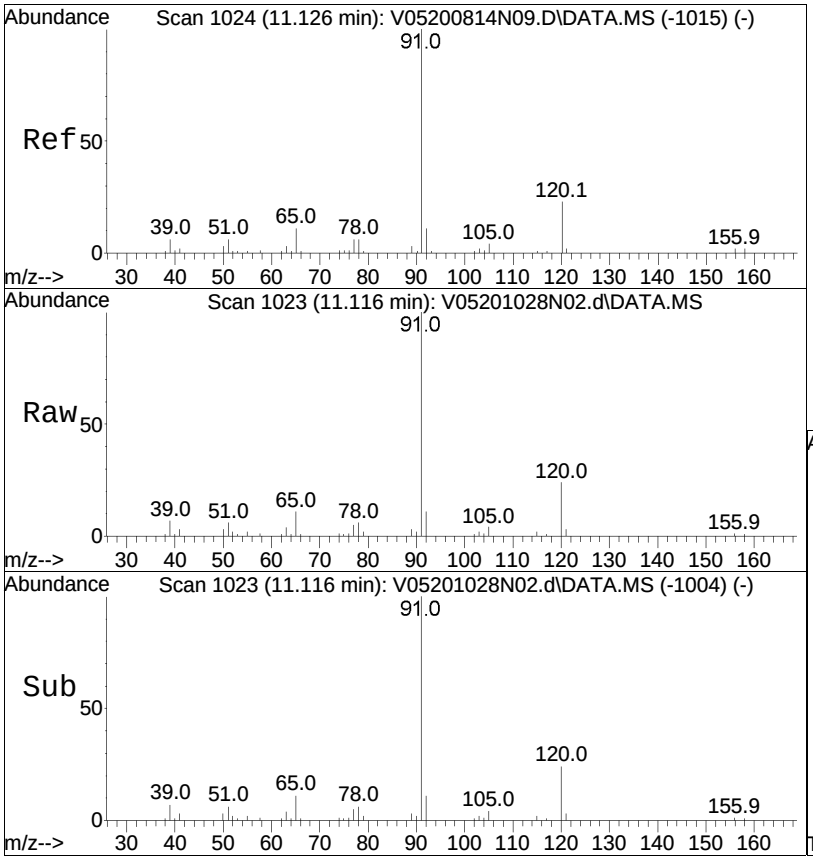


#77
o Xylene
Concen: 17.94 ug/L
RT: 10.244 min Scan# 934
Delta R.T. -0.010 min
Lab File: V05201028N02.d
Acq: 28 Oct 2020 6:21 pm

Tgt Ion:106 Resp: 234679

Ion	Ratio	Lower	Upper
106	100		
91	211.1	187.0	280.6

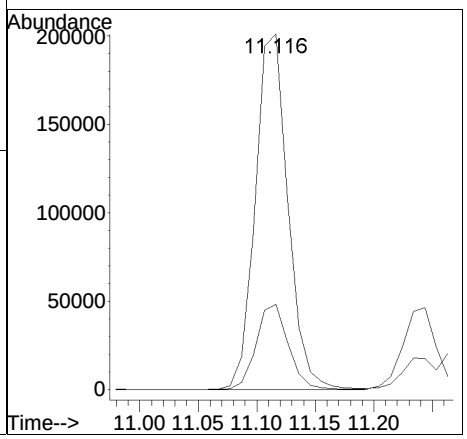


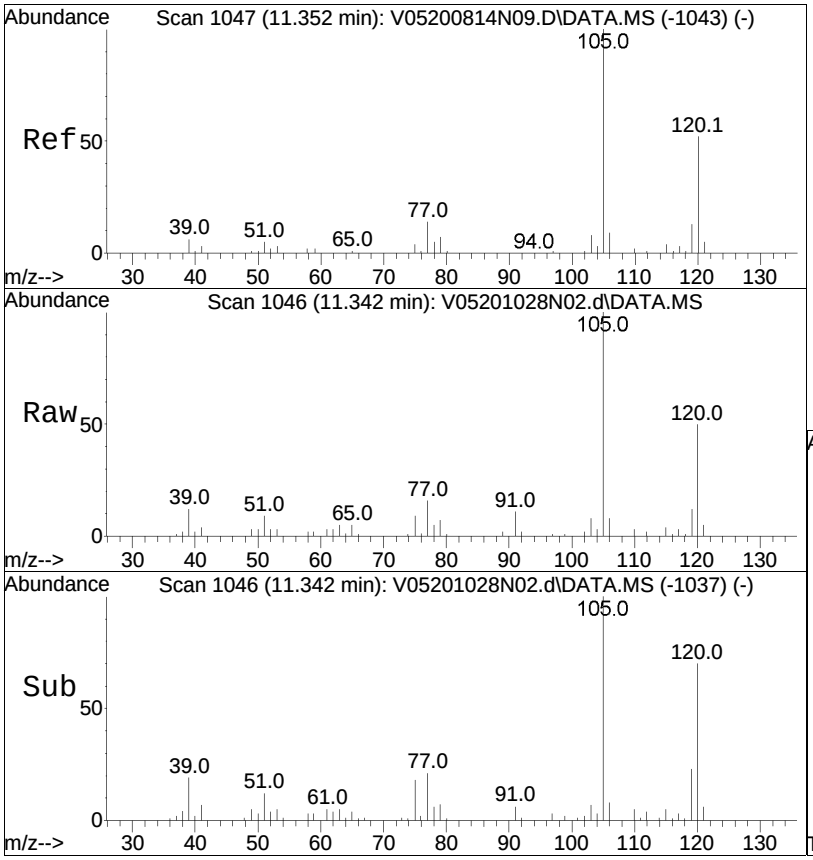


#85
n-Propylbenzene
Concen: 9.55 ug/L
RT: 11.116 min Scan# 1023
Delta R.T. -0.010 min
Lab File: V05201028N02.d
Acq: 28 Oct 2020 6:21 pm

Tgt Ion: 91 Resp: 390231

Ion	Ratio	Lower	Upper
91	100		
120	23.5	17.3	25.9

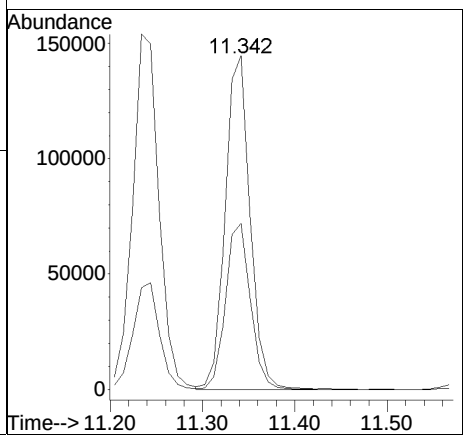


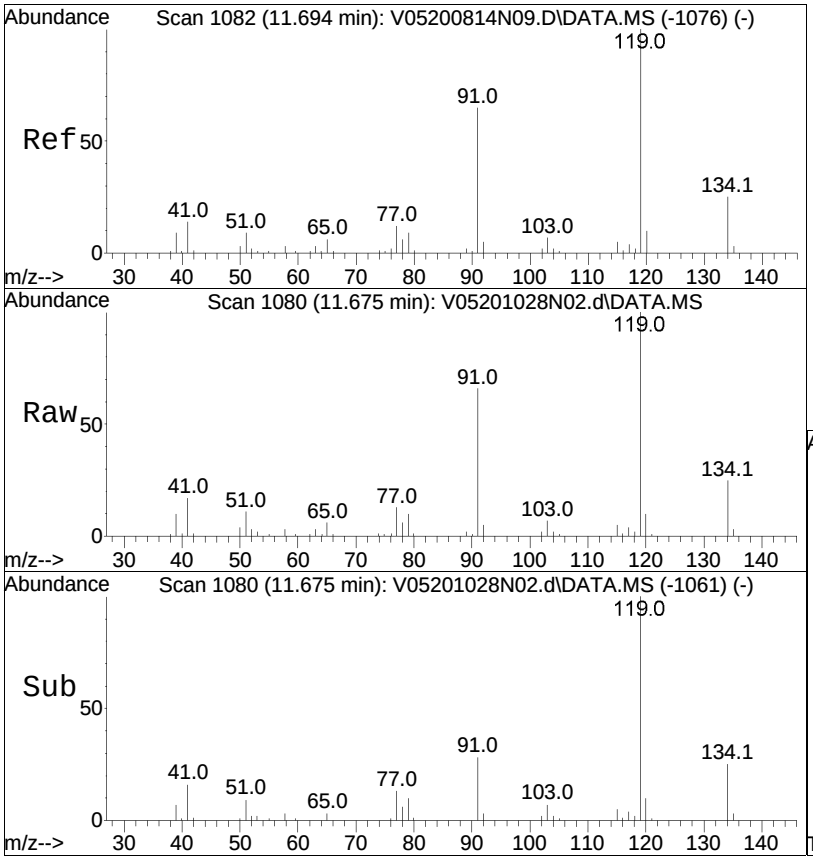


#90
1,3,5-Trimethylbenzene
Concen: 9.51 ug/L
RT: 11.342 min Scan# 1046
Delta R.T. -0.010 min
Lab File: V05201028N02.d
Acq: 28 Oct 2020 6:21 pm

Tgt Ion:105 Resp: 270320

Ion	Ratio	Lower	Upper
105	100		
120	49.8	37.0	55.6

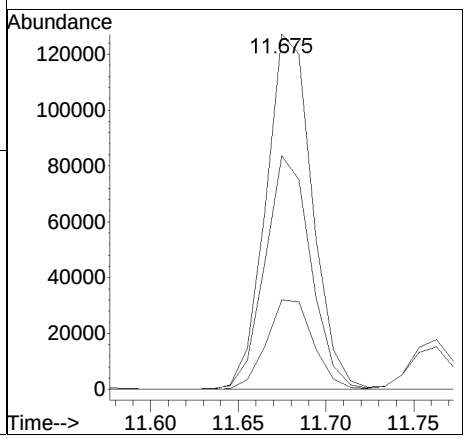


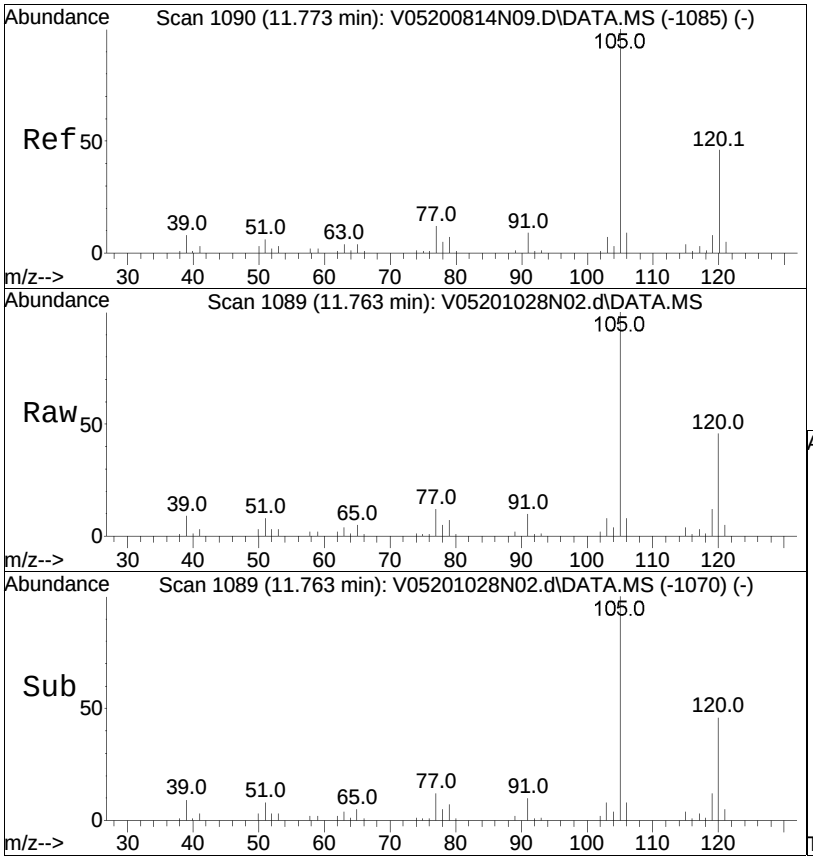


#94
tert-Butylbenzene
Concen: 9.29 ug/L
RT: 11.675 min Scan# 1080
Delta R.T. -0.010 min
Lab File: V05201028N02.d
Acq: 28 Oct 2020 6:21 pm

Tgt Ion:119 Resp: 233894

Ion	Ratio	Lower	Upper
119	100		
91	64.7	49.2	73.8
134	25.5	18.3	27.5

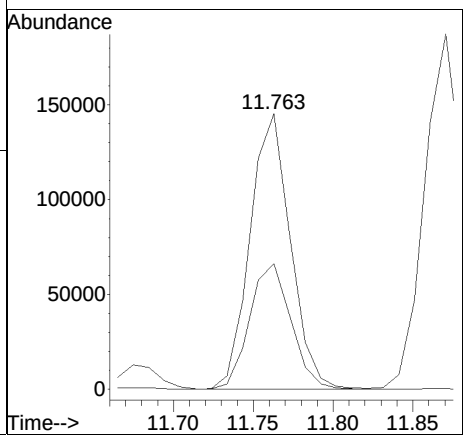


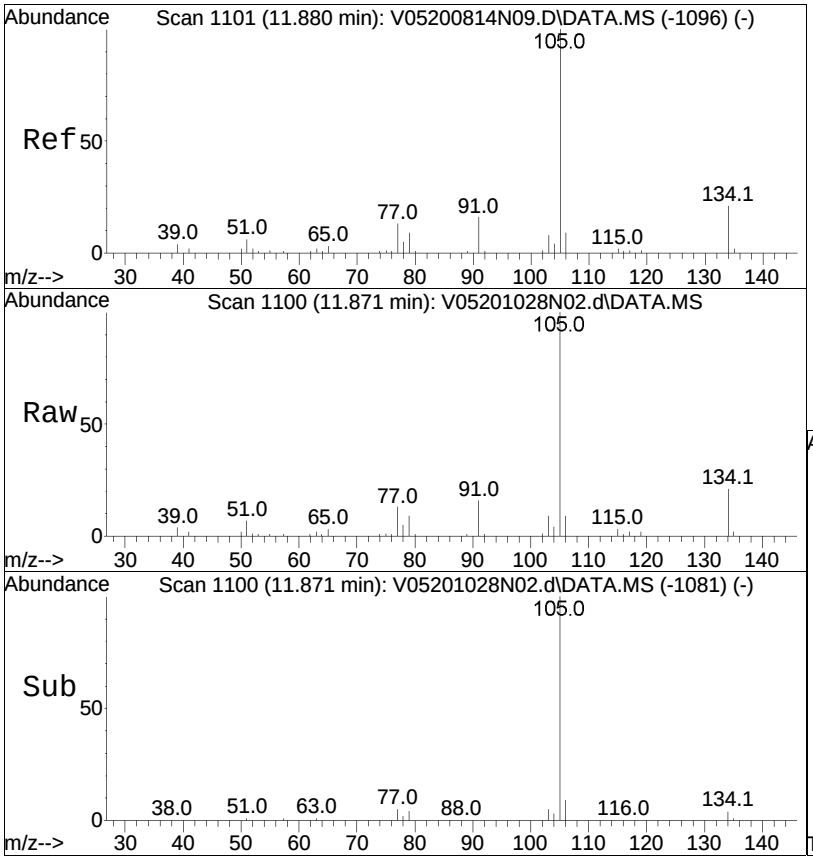


#97
1,2,4-Trimethylbenzene
Concen: 9.45 ug/L
RT: 11.763 min Scan# 1089
Delta R.T. -0.010 min
Lab File: V05201028N02.d
Acq: 28 Oct 2020 6:21 pm

Tgt Ion:105 Resp: 256521

Ion	Ratio	Lower	Upper
105	100		
120	46.5	34.4	51.6

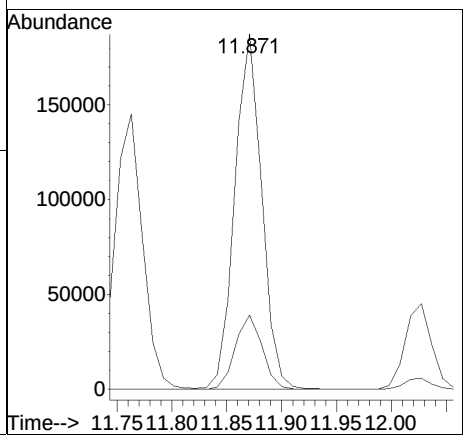


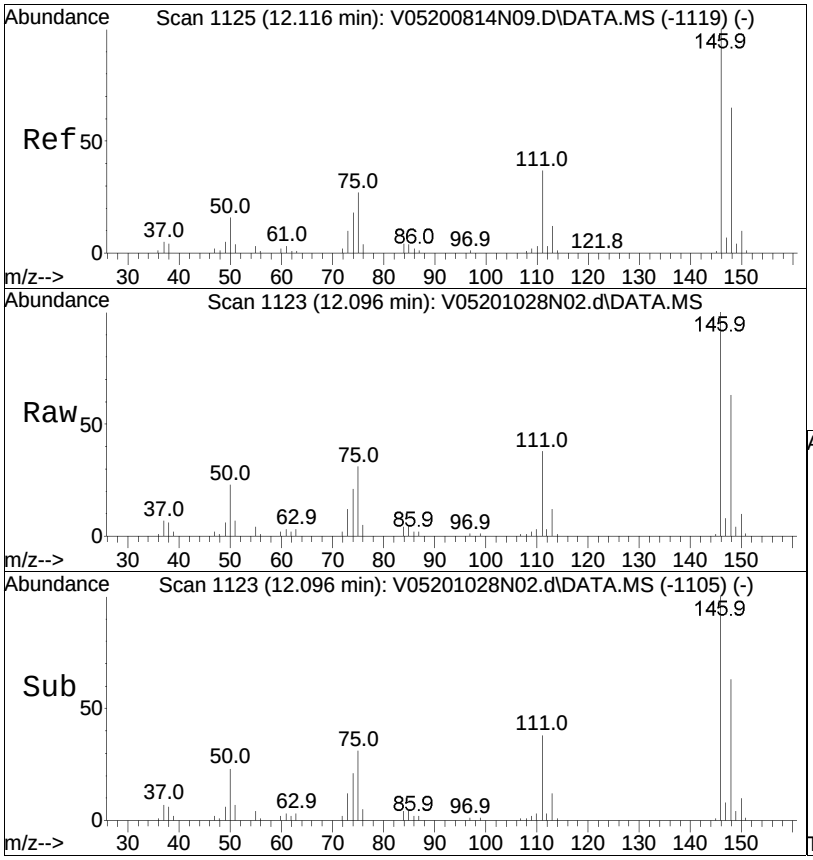


#98
sec-Butylbenzene
Concen: 9.43 ug/L
RT: 11.871 min Scan# 1100
Delta R.T. -0.010 min
Lab File: V05201028N02.d
Acq: 28 Oct 2020 6:21 pm

Tgt Ion:105 Resp: 320923

Ion	Ratio	Lower	Upper
105	100		
134	20.8	12.9	26.9

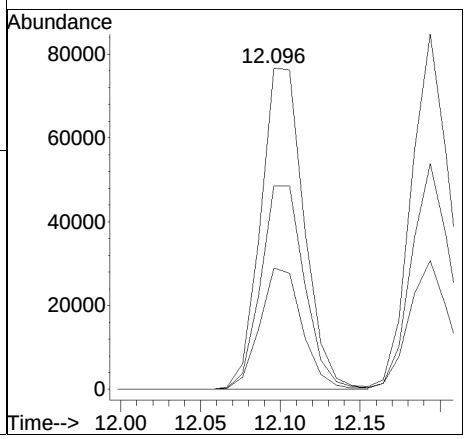


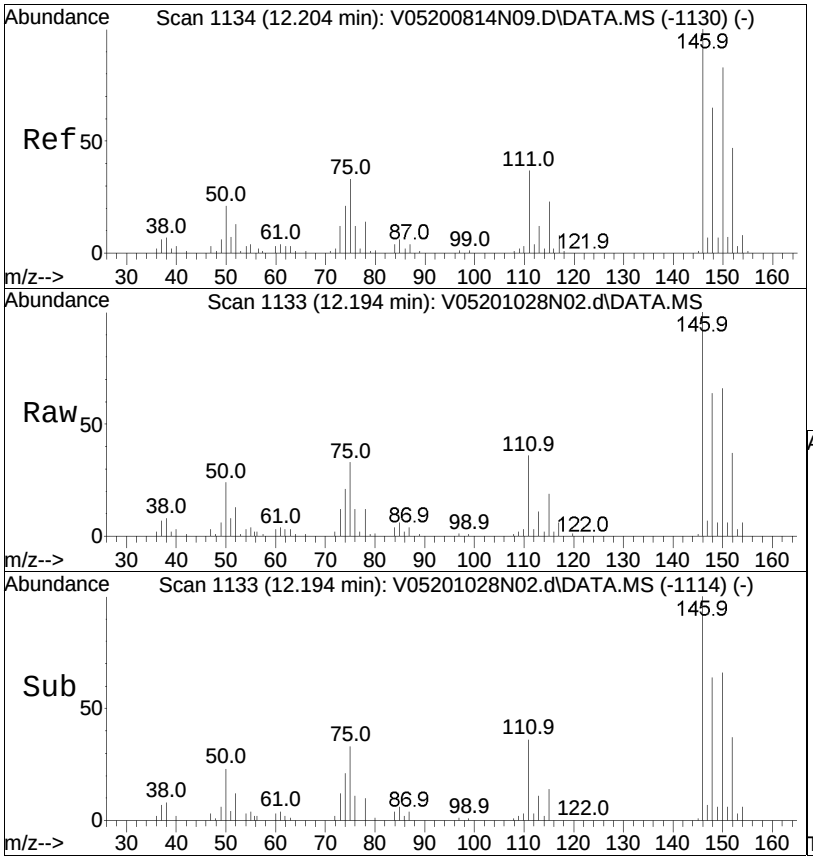


#100
1,3-Dichlorobenzene
Concen: 9.47 ug/L
RT: 12.096 min Scan# 1123
Delta R.T. -0.020 min
Lab File: V05201028N02.d
Acq: 28 Oct 2020 6:21 pm

Tgt Ion:146 Resp: 145438

Ion	Ratio	Lower	Upper
146	100		
111	36.9	28.0	58.1
148	63.9	41.6	86.4

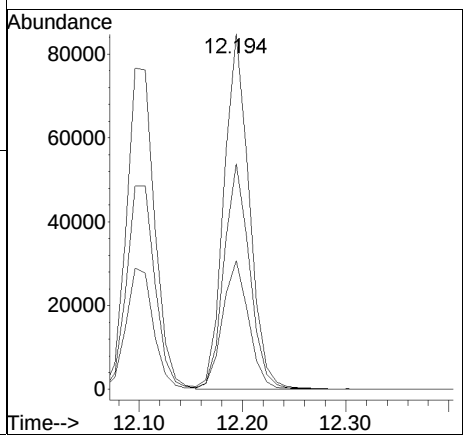


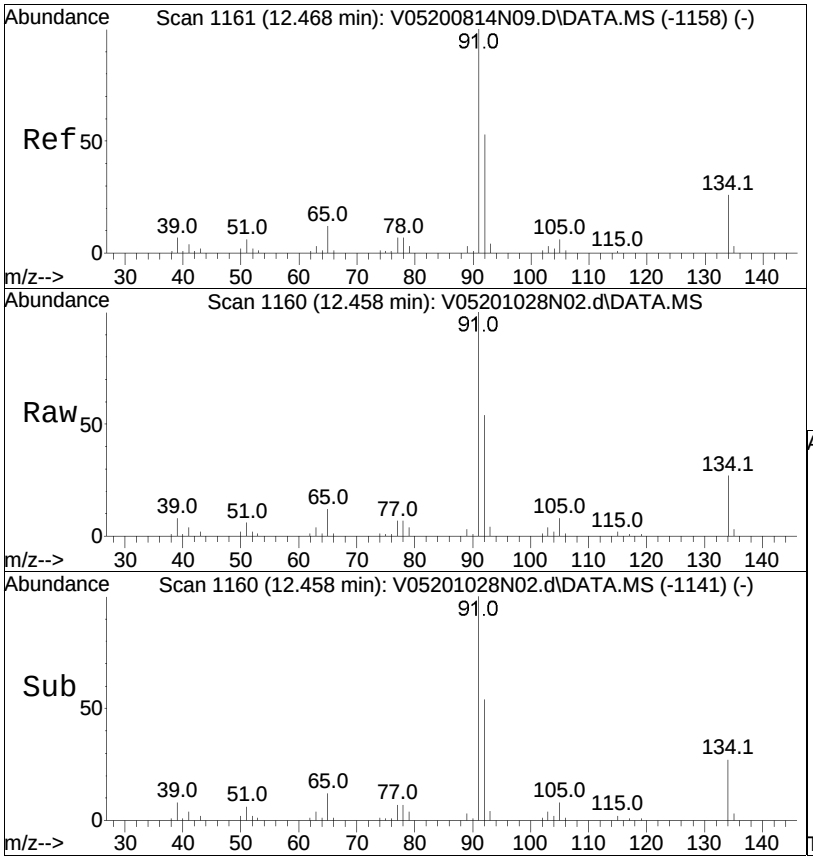


#101
1,4-Dichlorobenzene
Concen: 9.41 ug/L
RT: 12.194 min Scan# 1133
Delta R.T. -0.010 min
Lab File: V05201028N02.d
Acq: 28 Oct 2020 6:21 pm

Tgt Ion:146 Resp: 145415

Ion	Ratio	Lower	Upper
146	100		
111	37.5	33.8	50.6
148	64.2	51.0	76.6

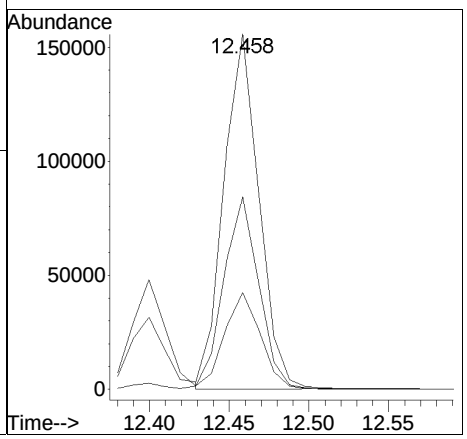


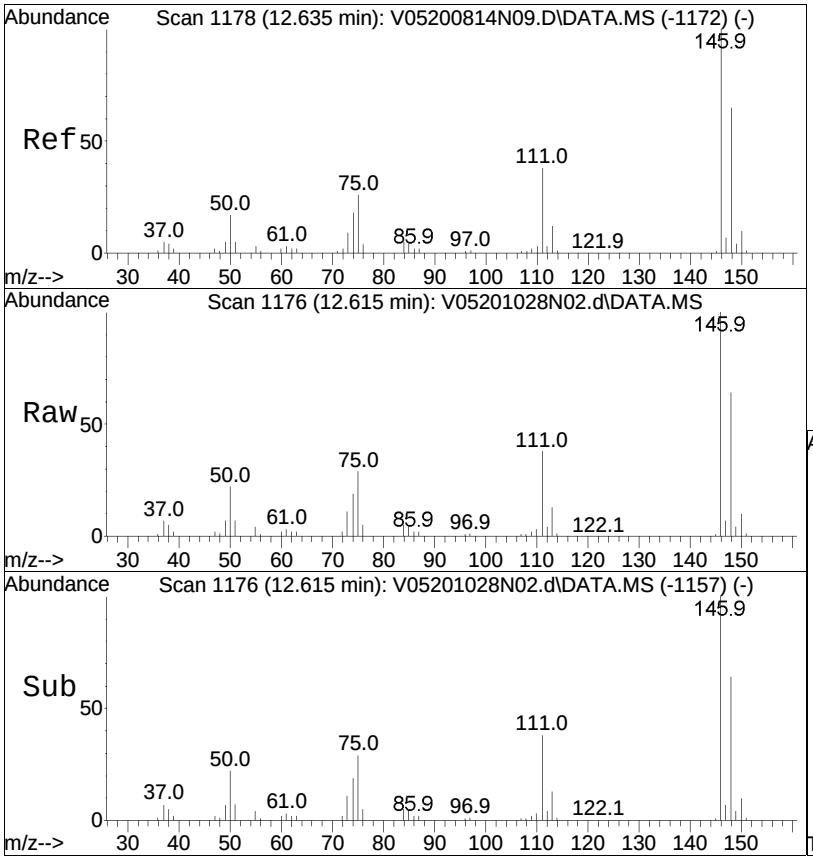


#103
n-Butylbenzene
Concen: 8.85 ug/L
RT: 12.458 min Scan# 1160
Delta R.T. -0.010 min
Lab File: V05201028N02.d
Acq: 28 Oct 2020 6:21 pm

Tgt Ion: 91 Resp: 238799

Ion	Ratio	Lower	Upper
91	100		
92	54.7	44.2	66.2
134	28.1	20.2	30.2

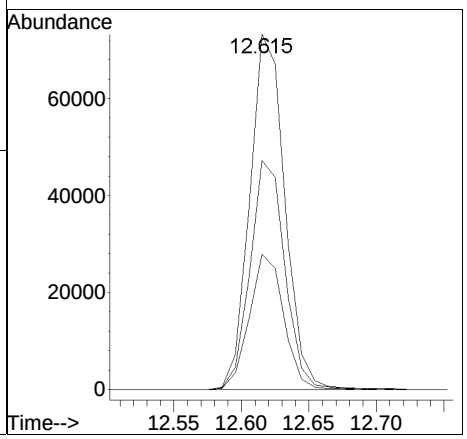




#104
1,2-Dichlorobenzene
Concen: 9.70 ug/L
RT: 12.615 min Scan# 1176
Delta R.T. -0.010 min
Lab File: V05201028N02.d
Acq: 28 Oct 2020 6:21 pm

Tgt Ion:146 Resp: 132162

Ion	Ratio	Lower	Upper
146	100		
111	37.3	29.1	60.5
148	64.0	41.7	86.7



Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201029A\
Data File : V08201029A02.d
Acq On : 29 Oct 2020 8:32 am
Operator : VOA108:PD
Sample : WG1428085-4,31,10,10
Misc : WG1428085,ICAL17242
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 29 08:57:00 2020
Quant Method : I:\VOLATILES\VOA108\2020\201029A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201029A\V08201029A01.d
Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.384	96	145621	10.000	ug/L	0.00
Standard Area 1 = 152206			Recovery = 95.67%			
59) Chlorobenzene-d5	8.420	117	107598	10.000	ug/L	0.00
Standard Area 1 = 101386			Recovery = 106.13%			
79) 1,4-Dichlorobenzene-d4	9.914	152	53247	10.000	ug/L	0.00
Standard Area 1 = 48766			Recovery = 109.19%			
System Monitoring Compounds						
36) Dibromofluoromethane	4.388	113	36220	9.918	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.18%			
43) 1,2-Dichloroethane-d4	5.033	65	42141	9.903	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.03%			
60) Toluene-d8	7.099	98	142639	10.025	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.25%			
83) 4-Bromofluorobenzene	9.243	95	50669	9.928	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.28%			
Target Compounds						Qvalue
4) Vinyl chloride	1.101	62	39982	10.143	ug/L	91
10) 1,1-Dichloroethene	1.824	96	31745	9.861	ug/L #	65
15) Methylene chloride	2.291	84	38299	9.961	ug/L	68
17) Acetone	2.343	43	7302	9.119	ug/L	97
18) trans-1,2-Dichloroethene	2.438	96	31786	9.429	ug/L	76
20) Methyl tert-butyl ether	2.558	73	86069	9.016	ug/L	93
23) 1,1-Dichloroethane	3.046	63	63480	9.909	ug/L	97
28) cis-1,2-Dichloroethene	3.712	96	40734M1	9.710	ug/L	
32) Chloroform	4.141	83	64685M1	9.729	ug/L	
34) Carbon tetrachloride	4.267	117	43348	9.748	ug/L	98
37) 1,1,1-Trichloroethane	4.362	97	55356	9.704	ug/L #	93
39) 2-Butanone	4.577	43	9467M1	7.068	ug/L	
41) Benzene	4.855	78	137969	9.705	ug/L #	88
44) 1,2-Dichloroethane	5.117	62	47990	9.829	ug/L	97
48) Trichloroethene	5.583	95	39174	10.157	ug/L	100
57) 1,4-Dioxane	6.480	88	11364	355.628	ug/L #	72
61) Toluene	7.146	92	92627	9.943	ug/L	100
63) Tetrachloroethene	7.513	166	38286	6.498	ug/L	94
73) Chlorobenzene	8.430	112	99474	9.961	ug/L	92
74) Ethylbenzene	8.472	91	177237	10.089	ug/L	100

Data Path : I:\VOLATILES\VOA108\2020\201029A\
Data File : V08201029A02.d
Acq On : 29 Oct 2020 8:32 am
Operator : VOA108:PD
Sample : WG1428085-4,31,10,10
Misc : WG1428085,ICAL17242
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 29 08:57:00 2020
Quant Method : I:\VOLATILES\VOA108\2020\201029A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA108\2020\201029A\V08201029A01.d
Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	p/m Xylene	8.582	106	135751	20.183	ug/L	96
77)	o Xylene	8.865	106	127342	20.291	ug/L	92
85)	n-Propylbenzene	9.337	91	199549	10.250	ug/L	99
90)	1,3,5-Trimethylbenzene	9.463	105	139196	10.106	ug/L	93
94)	tert-Butylbenzene	9.647	119	116927	9.507	ug/L	95
97)	1,2,4-Trimethylbenzene	9.689	105	138591	10.209	ug/L	94
98)	sec-Butylbenzene	9.752	105	166492	10.400	ug/L	97
100)	1,3-Dichlorobenzene	9.872	146	76435	9.901	ug/L	98
101)	1,4-Dichlorobenzene	9.925	146	80276	10.049	ug/L	97
103)	n-Butylbenzene	10.082	91	147586	10.752	ug/L	98
104)	1,2-Dichlorobenzene	10.166	146	74171	9.920	ug/L	99

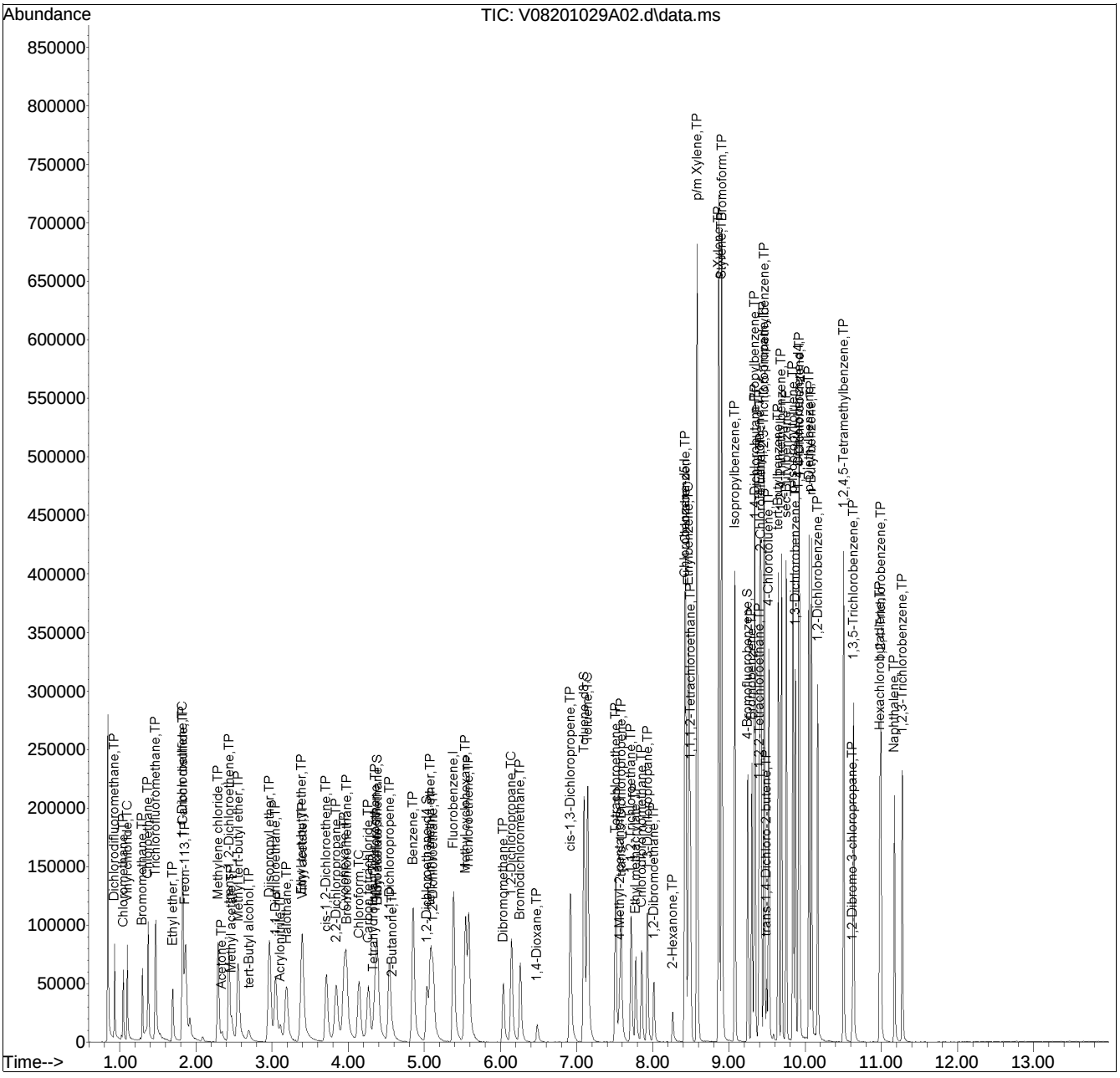
(#) = qualifier out of range (m) = manual integration (+) = signals summed

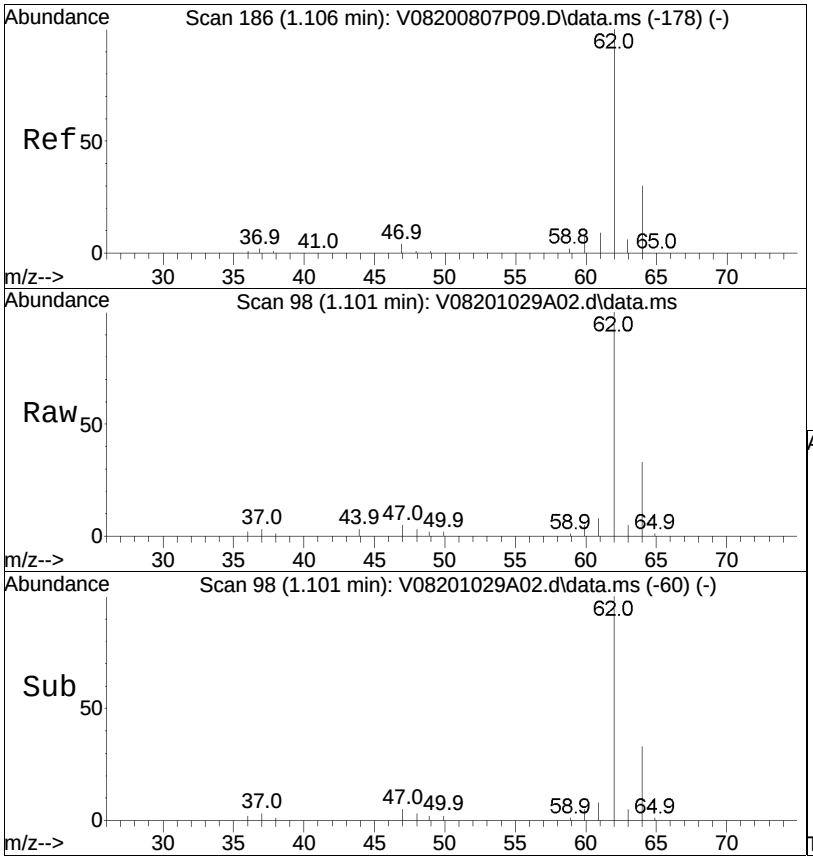
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA108\2020\201029A\
Data File : V08201029A02.d
Acq On : 29 Oct 2020 8:32 am
Operator : VOA108:PD
Sample : WG1428085-4,31,10,10
Misc : WG1428085,ICAL17242
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 29 08:57:00 2020
Quant Method : I:\VOLATILES\VOA108\2020\201029A\V108_201013A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Oct 14 11:43:29 2020
Response via : Initial Calibration

Sub List : 8260-Curve-3 - Megamix plus Diox-IM, Acro, 2Ceve1.d•

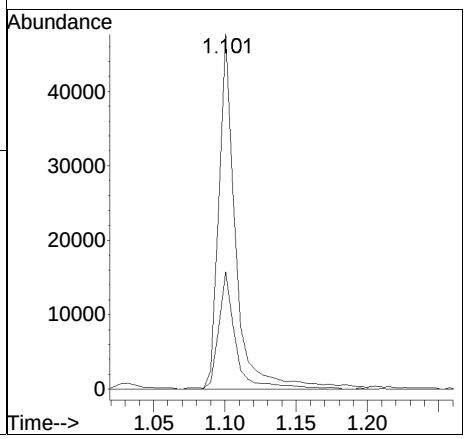


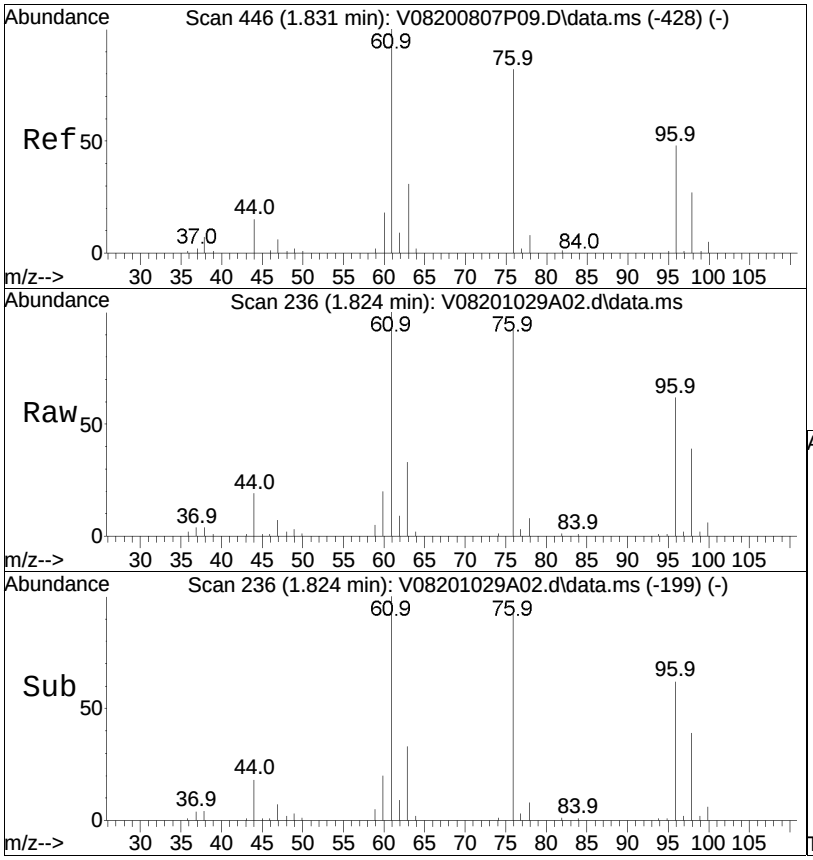


#4
Vinyl chloride
Concen: 10.14 ug/L
RT: 1.101 min Scan# 98
Delta R.T. -0.000 min
Lab File: V08201029A02.d
Acq: 29 Oct 2020 8:32 am

Tgt Ion: 62 Resp: 39982

Ion	Ratio	Lower	Upper
62	100		
64	33.8	9.1	49.1

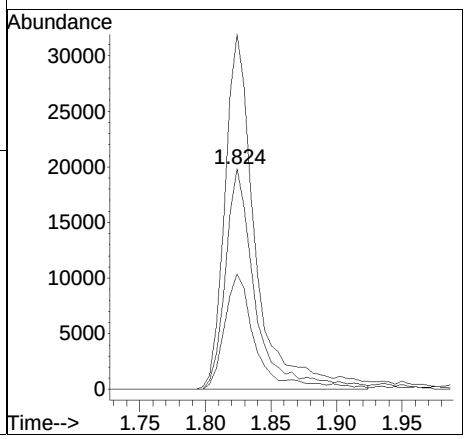


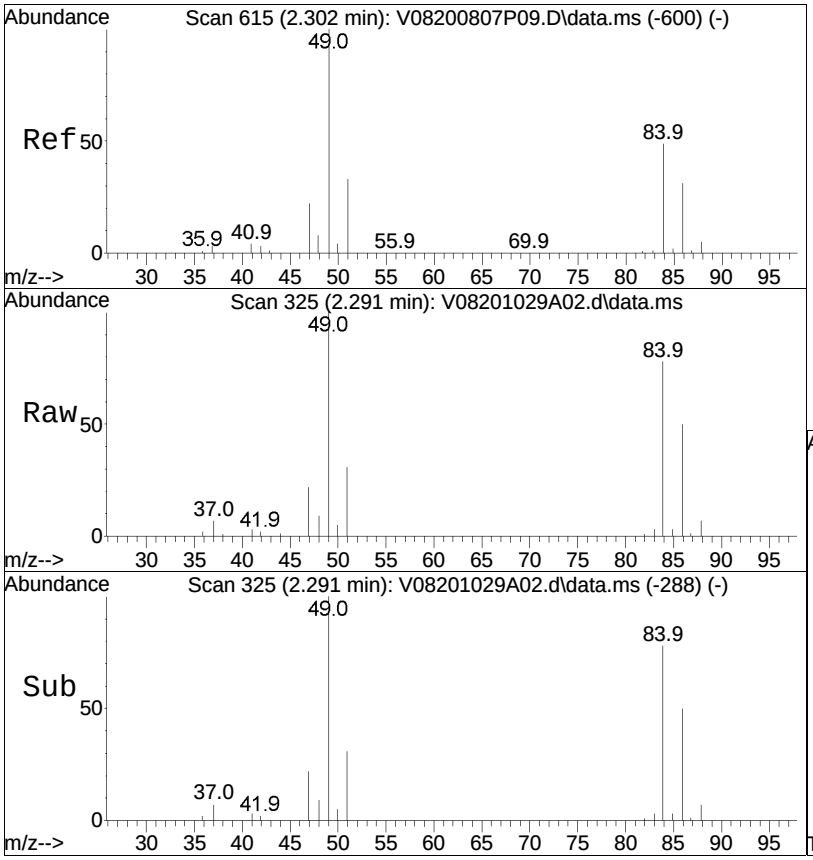


#10
1,1-Dichloroethene
Concen: 9.86 ug/L
RT: 1.824 min Scan# 236
Delta R.T. -0.005 min
Lab File: V08201029A02.d
Acq: 29 Oct 2020 8:32 am

Tgt Ion: 96 Resp: 31745

Ion	Ratio	Lower	Upper
96	100		
61	167.1	186.1	279.1#
63	54.6	57.6	86.4#

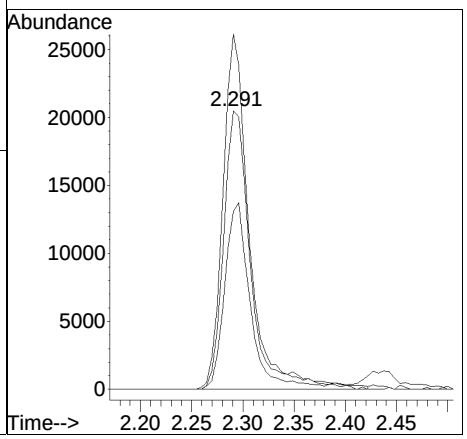


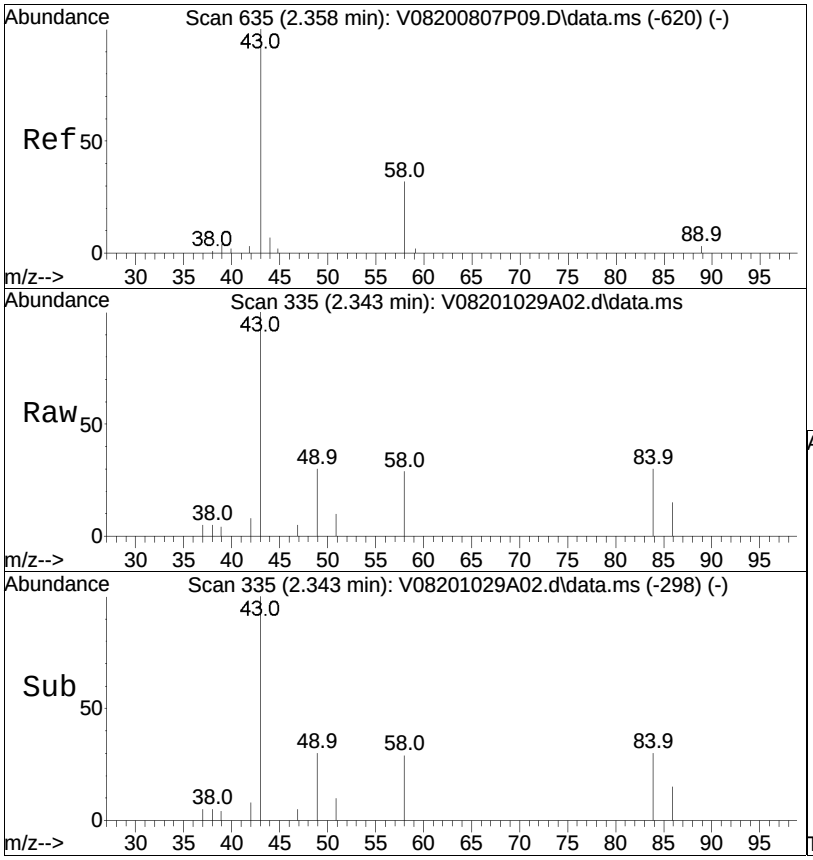


#15
Methylene chloride
Concen: 9.96 ug/L
RT: 2.291 min Scan# 325
Delta R.T. -0.005 min
Lab File: V08201029A02.d
Acq: 29 Oct 2020 8:32 am

Tgt Ion: 84 Resp: 38299

Ion	Ratio	Lower	Upper
84	100		
86	62.8	40.4	83.8
49	122.7	120.0	249.2

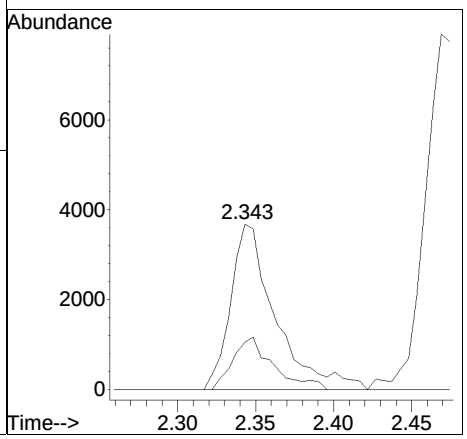


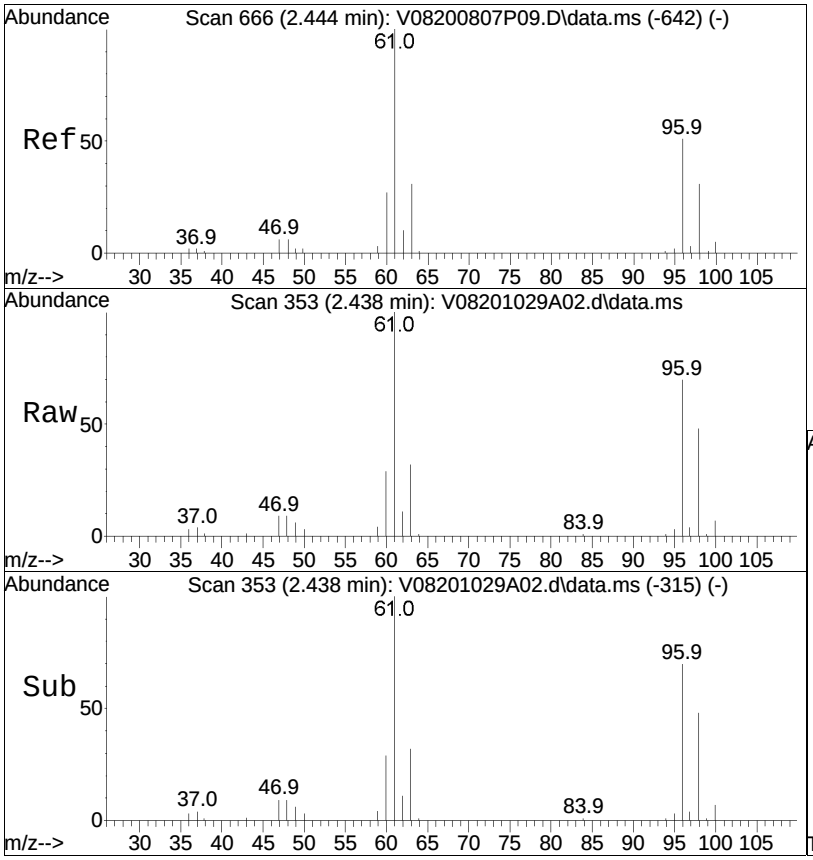


#17
Acetone
Concen: 9.12 ug/L
RT: 2.343 min Scan# 335
Delta R.T. -0.006 min
Lab File: V08201029A02.d
Acq: 29 Oct 2020 8:32 am

Tgt Ion: 43 Resp: 7302

Ion	Ratio	Lower	Upper
43	100		
58	28.4	24.2	36.4

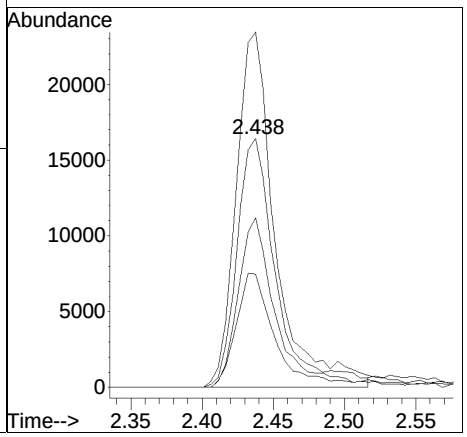


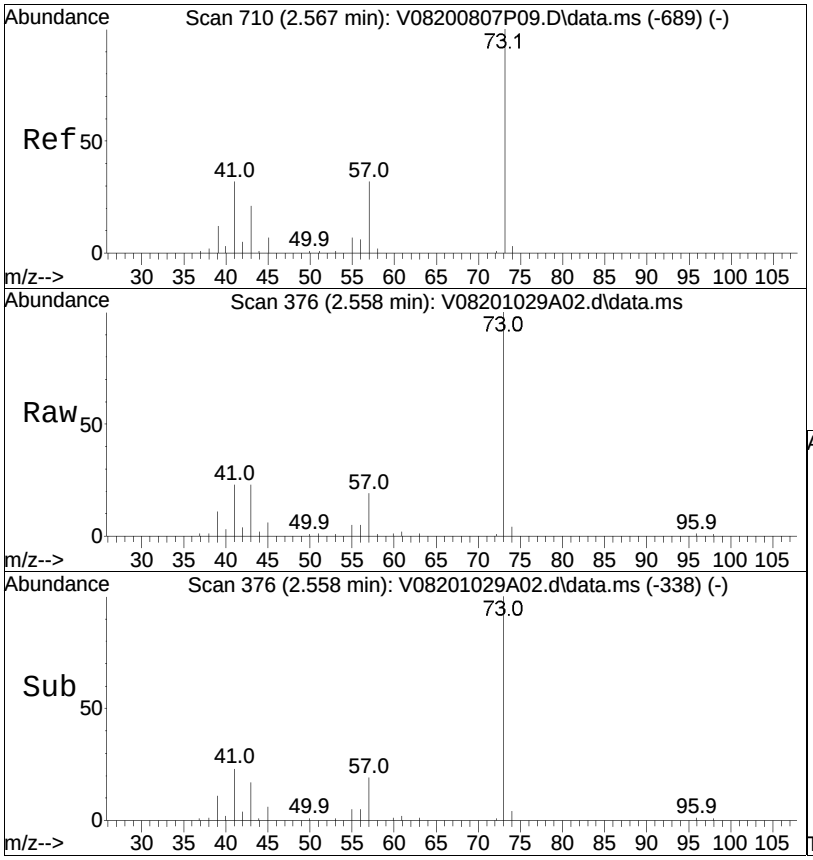


#18
trans-1,2-Dichloroethene
Concen: 9.43 ug/L
RT: 2.438 min Scan# 353
Delta R.T. -0.000 min
Lab File: V08201029A02.d
Acq: 29 Oct 2020 8:32 am

Tgt Ion: 96 Resp: 31786

Ion	Ratio	Lower	Upper
96	100		
61	143.0	124.0	257.6
98	64.9	41.2	85.6
63	45.2	38.4	79.7

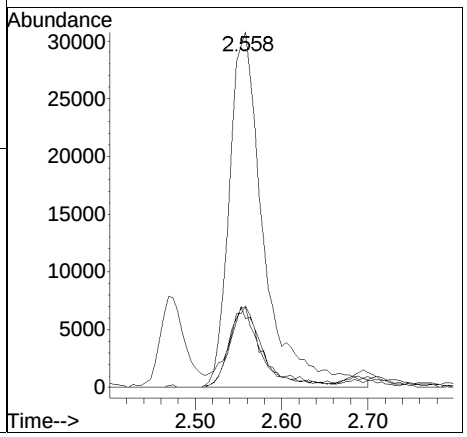


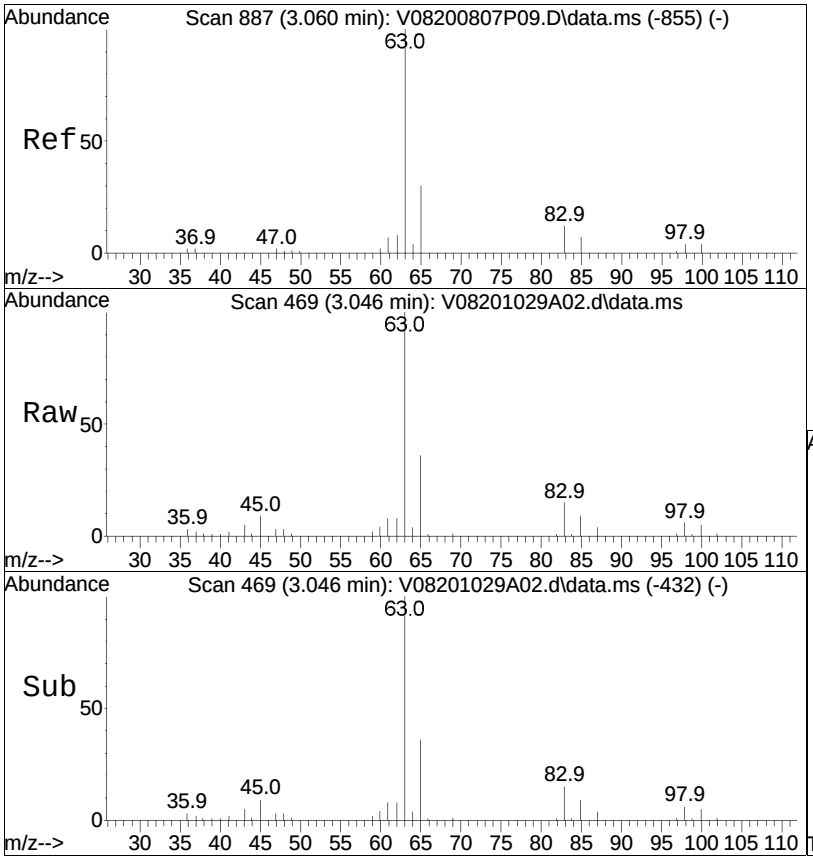


#20
Methyl tert-butyl ether
Concen: 9.02 ug/L
RT: 2.558 min Scan# 376
Delta R.T. -0.000 min
Lab File: V08201029A02.d
Acq: 29 Oct 2020 8:32 am

Tgt Ion: 73 Resp: 86069

Ion	Ratio	Lower	Upper
73	100		
57	21.1	17.5	36.3
43	20.7	15.3	31.9
41	21.3	15.3	31.7

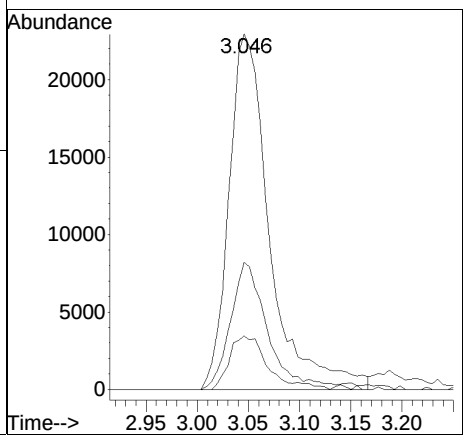


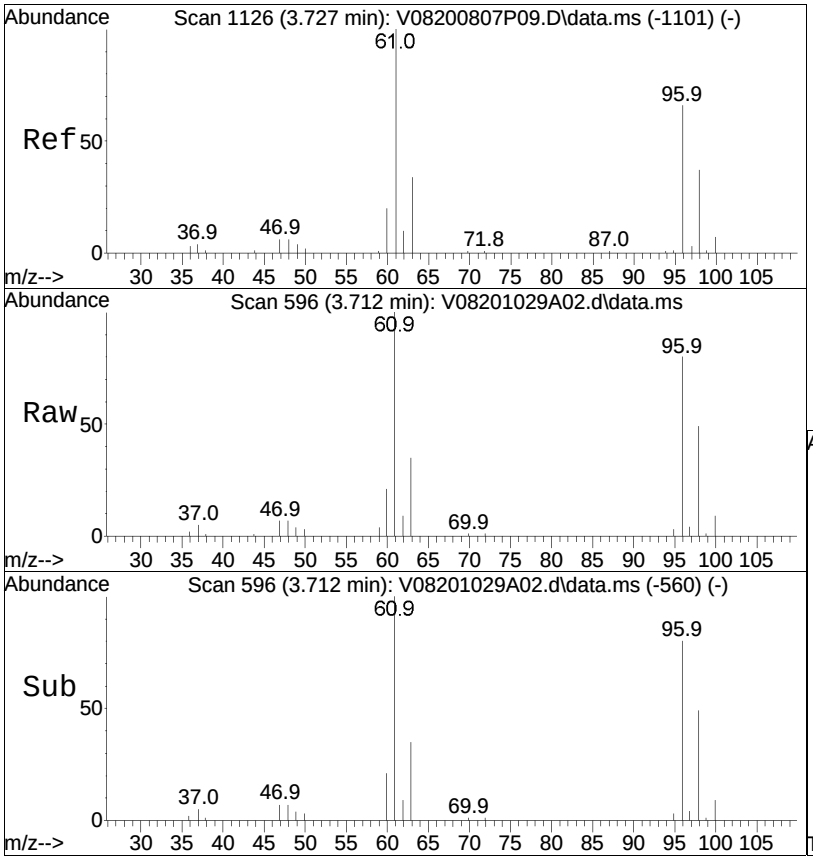


#23
1,1-Dichloroethane
Concen: 9.91 ug/L
RT: 3.046 min Scan# 469
Delta R.T. -0.005 min
Lab File: V08201029A02.d
Acq: 29 Oct 2020 8:32 am

Tgt Ion: 63 Resp: 63480

Ion	Ratio	Lower	Upper
63	100		
65	32.4	11.0	51.0
83	14.1	0.0	31.8

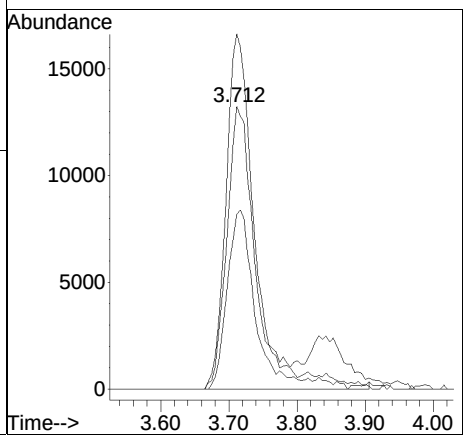


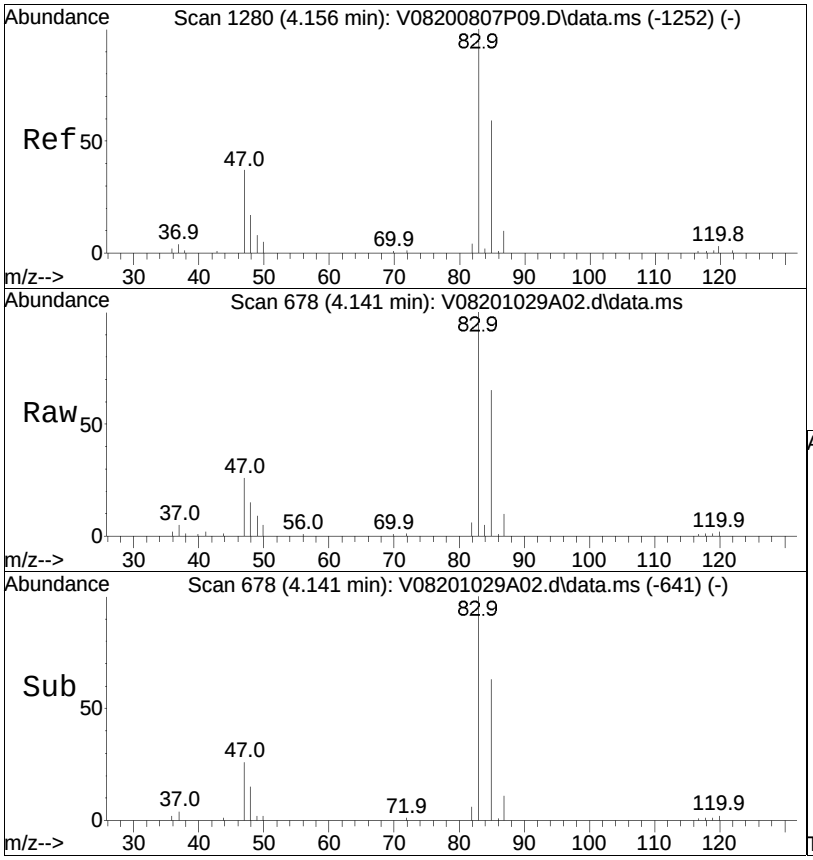


#28
cis-1,2-Dichloroethene
Concen: 9.71 ug/L M1
RT: 3.712 min Scan# 596
Delta R.T. -0.011 min
Lab File: V08201029A02.d
Acq: 29 Oct 2020 8:32 am

Tgt Ion: 96 Resp: 40734

Ion	Ratio	Lower	Upper
96	100		
61	114.9	149.4	224.2#
98	58.3	53.4	80.2

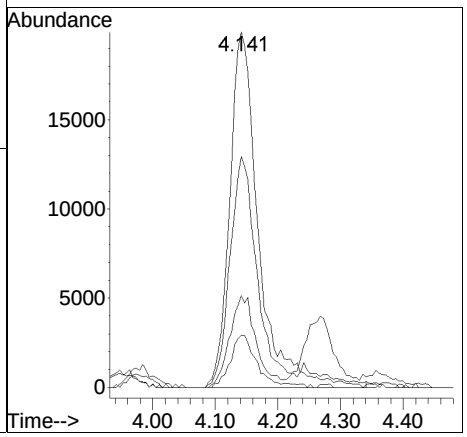


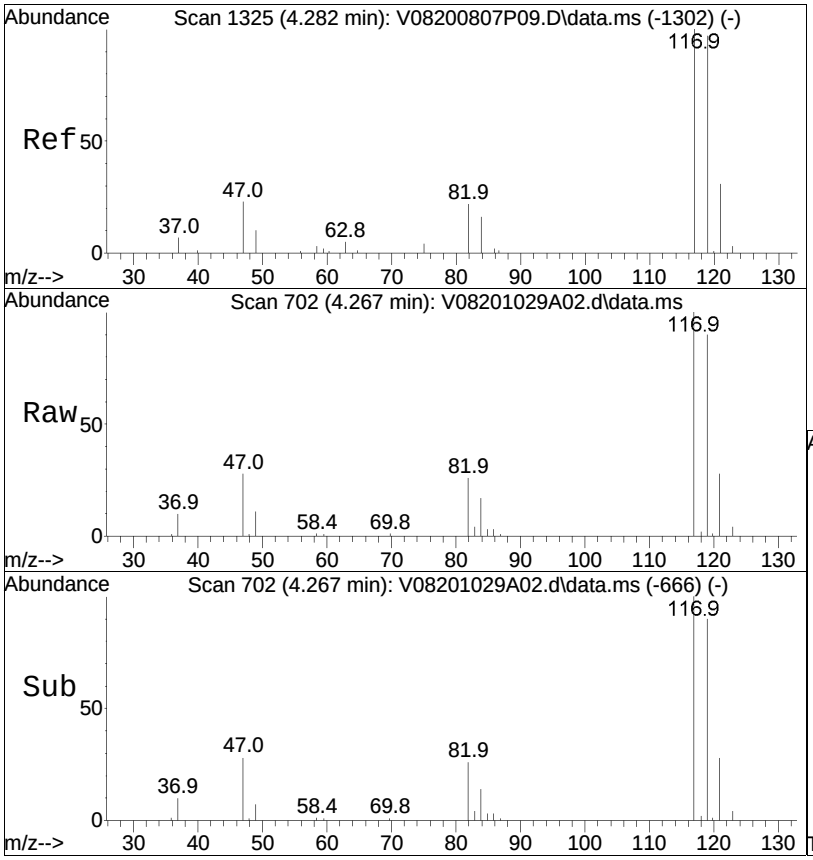


#32
Chloroform
Concen: 9.73 ug/L M1
RT: 4.141 min Scan# 678
Delta R.T. -0.005 min
Lab File: V08201029A02.d
Acq: 29 Oct 2020 8:32 am

Tgt Ion: 83 Resp: 64685

Ion	Ratio	Lower	Upper
83	100		
85	60.9	41.5	86.1
47	23.5	19.0	39.4
48	13.6	9.9	20.5

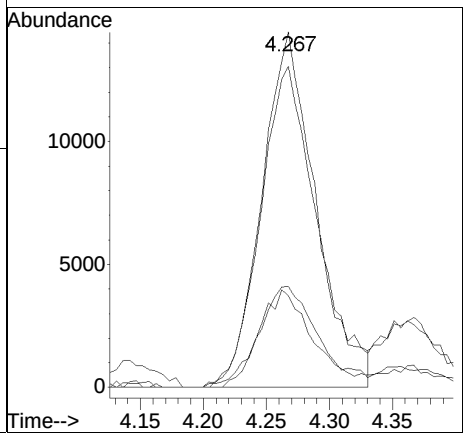


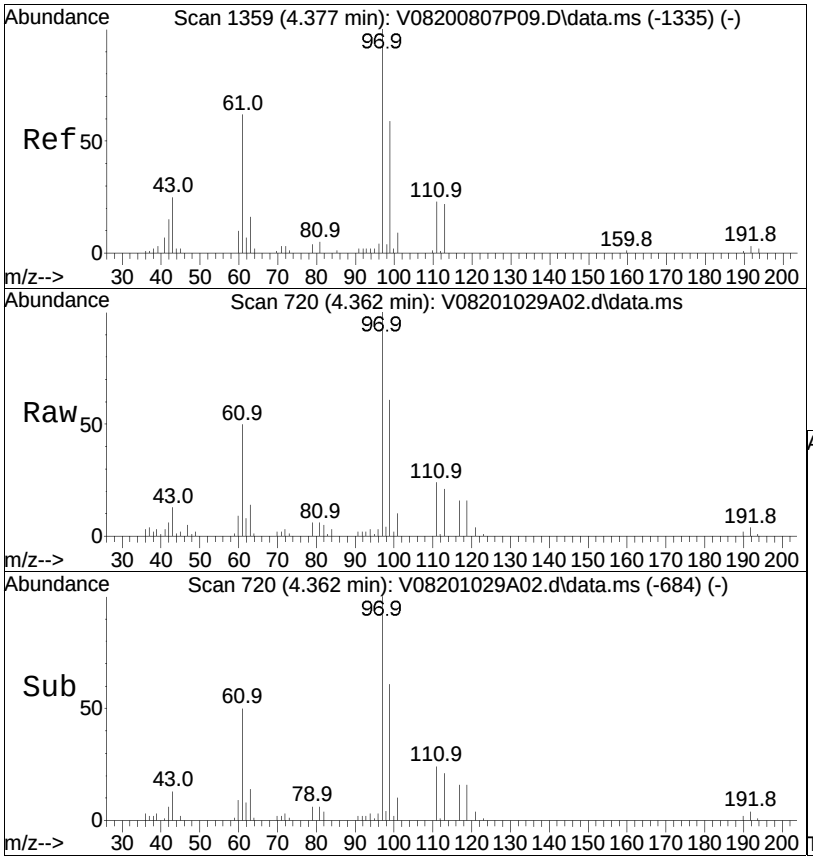


#34
Carbon tetrachloride
Concen: 9.75 ug/L
RT: 4.267 min Scan# 702
Delta R.T. -0.011 min
Lab File: V08201029A02.d
Acq: 29 Oct 2020 8:32 am

Tgt Ion:117 Resp: 43348

Ion	Ratio	Lower	Upper
117	100		
119	94.0	62.4	129.6
121	30.5	19.5	40.5
82	27.8	17.0	35.4

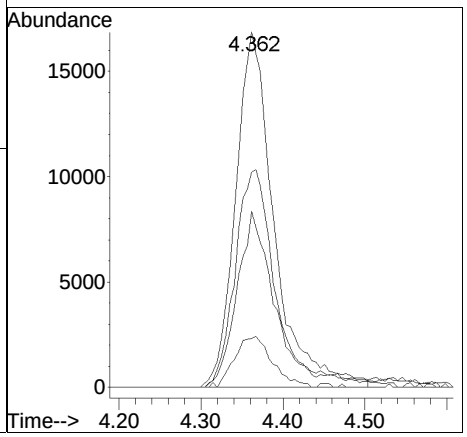


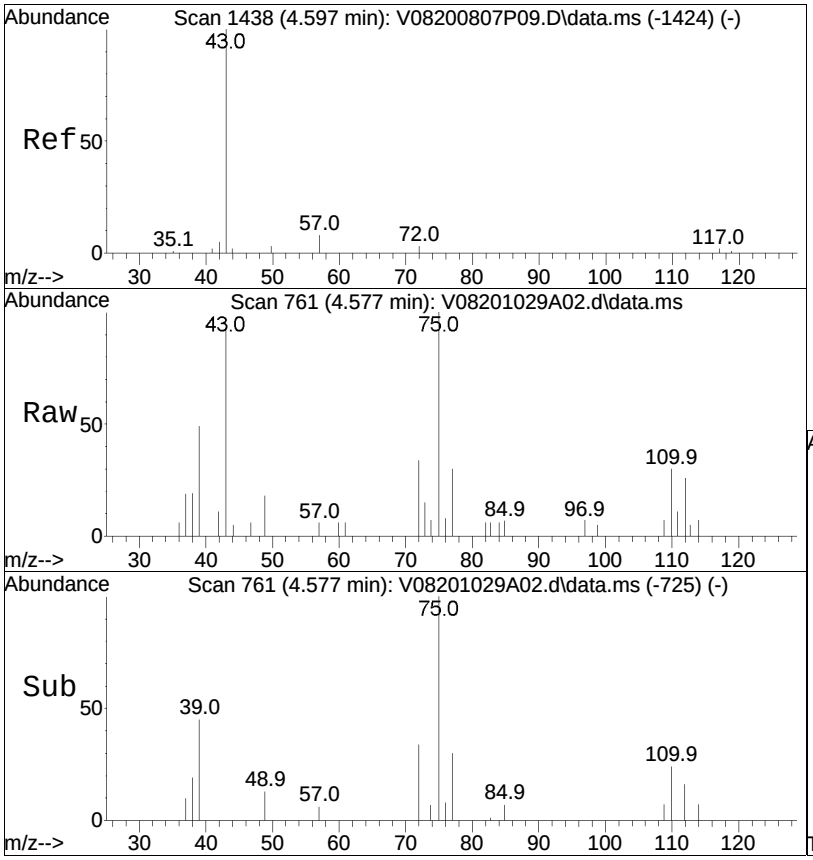


#37
1,1,1-Trichloroethane
Concen: 9.70 ug/L
RT: 4.362 min Scan# 720
Delta R.T. -0.011 min
Lab File: V08201029A02.d
Acq: 29 Oct 2020 8:32 am

Tgt Ion: 97 Resp: 55356

Ion	Ratio	Lower	Upper
97	100		
99	65.5	40.7	84.5
61	47.2	35.4	73.4
63	14.1	5.0	10.4#

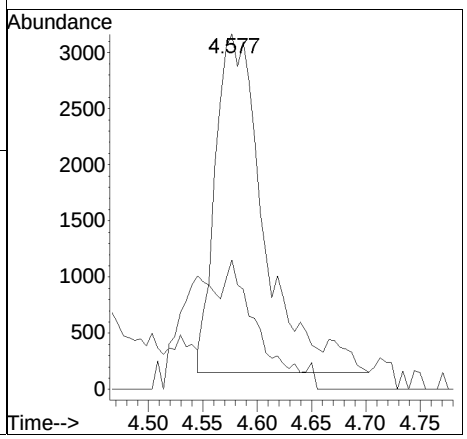


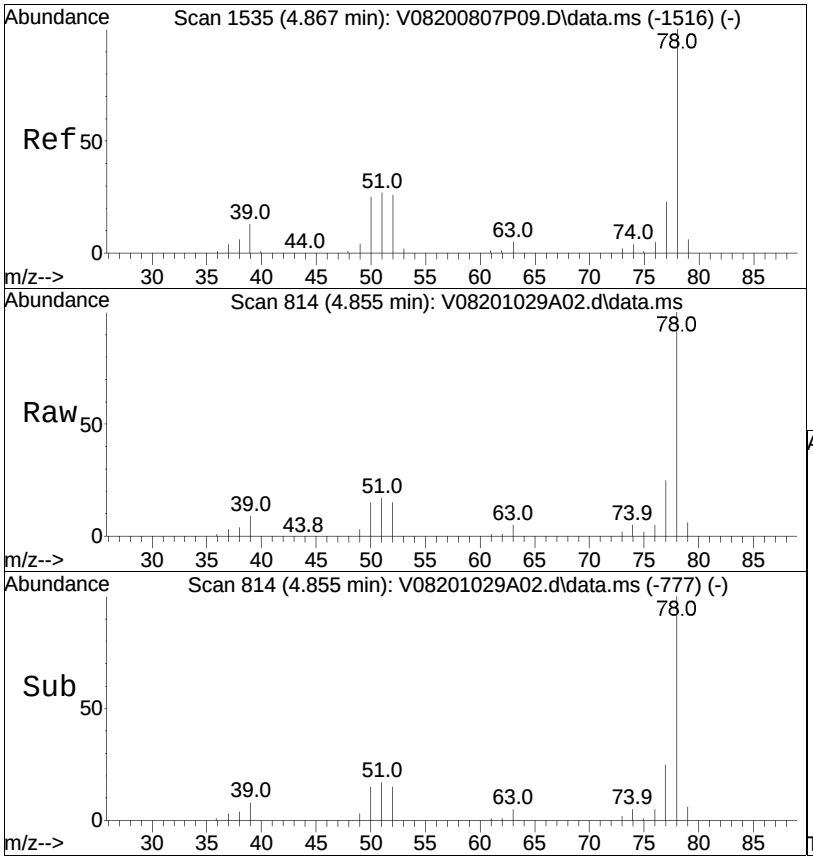


#39
2-Butanone
Concen: 7.07 ug/L M1
RT: 4.577 min Scan# 761
Delta R.T. -0.010 min
Lab File: V08201029A02.d
Acq: 29 Oct 2020 8:32 am

Tgt Ion: 43 Resp: 9467

Ion	Ratio	Lower	Upper
43	100		
72	26.1	10.9	16.3#

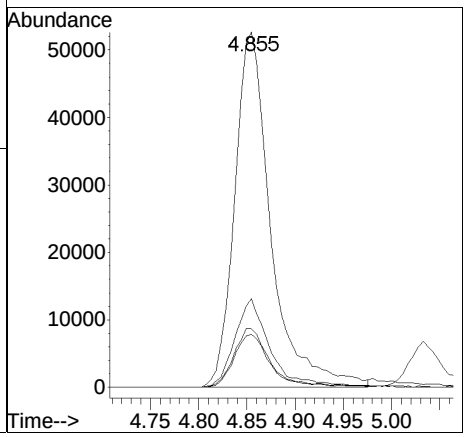


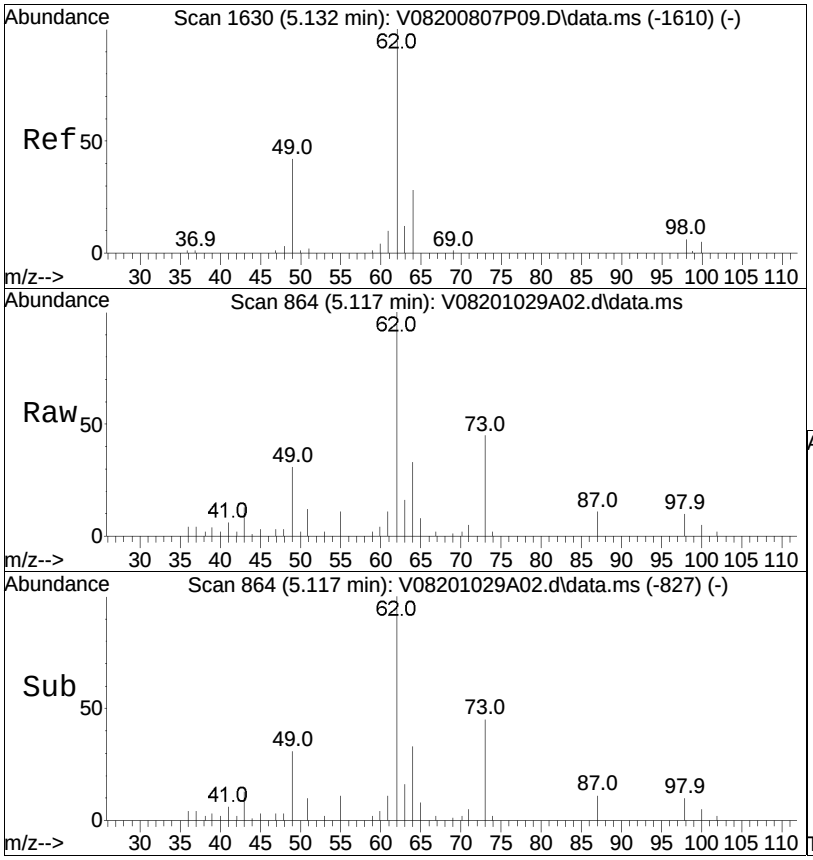


#41
Benzene
Concen: 9.70 ug/L
RT: 4.855 min Scan# 814
Delta R.T. -0.005 min
Lab File: V08201029A02.d
Acq: 29 Oct 2020 8:32 am

Tgt Ion: 78 Resp: 137969

Ion	Ratio	Lower	Upper
78	100		
77	24.3	15.7	32.7
51	16.4	16.0	33.2
52	14.5	15.3	31.9#

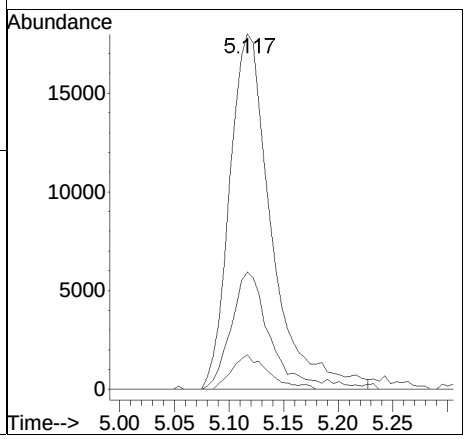


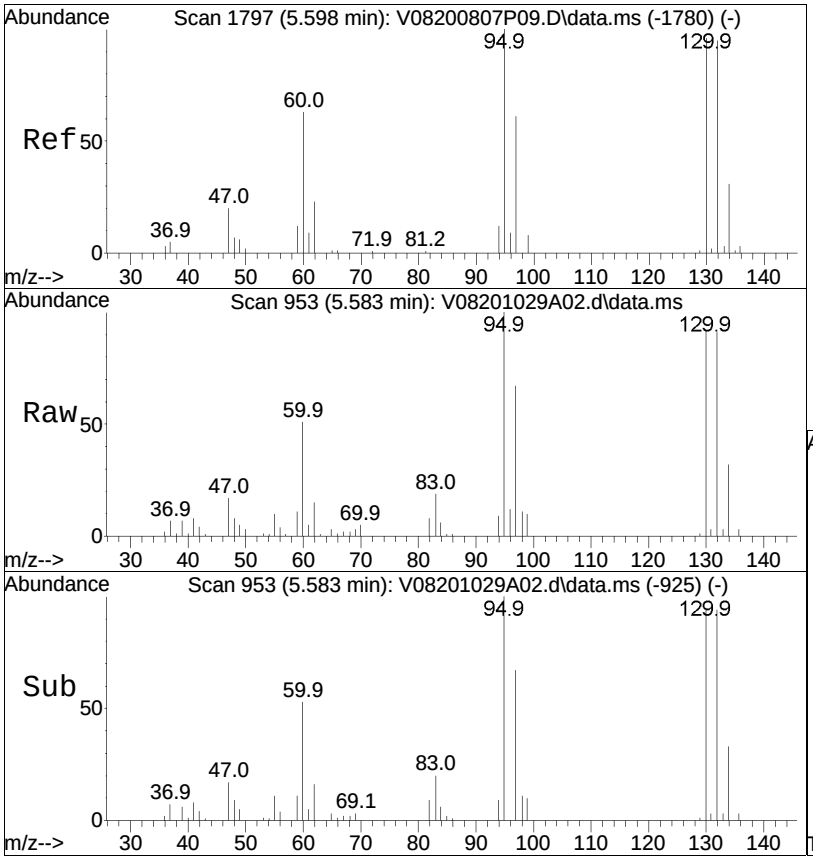


#44
1,2-Dichloroethane
Concen: 9.83 ug/L
RT: 5.117 min Scan# 864
Delta R.T. -0.005 min
Lab File: V08201029A02.d
Acq: 29 Oct 2020 8:32 am

Tgt Ion: 62 Resp: 47990

Ion	Ratio	Lower	Upper
62	100		
64	30.2	11.2	51.2
98	8.6	0.0	26.1

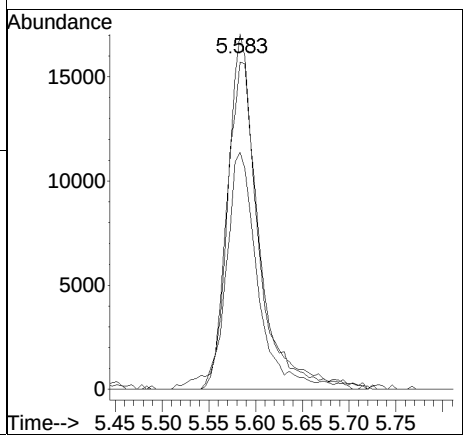


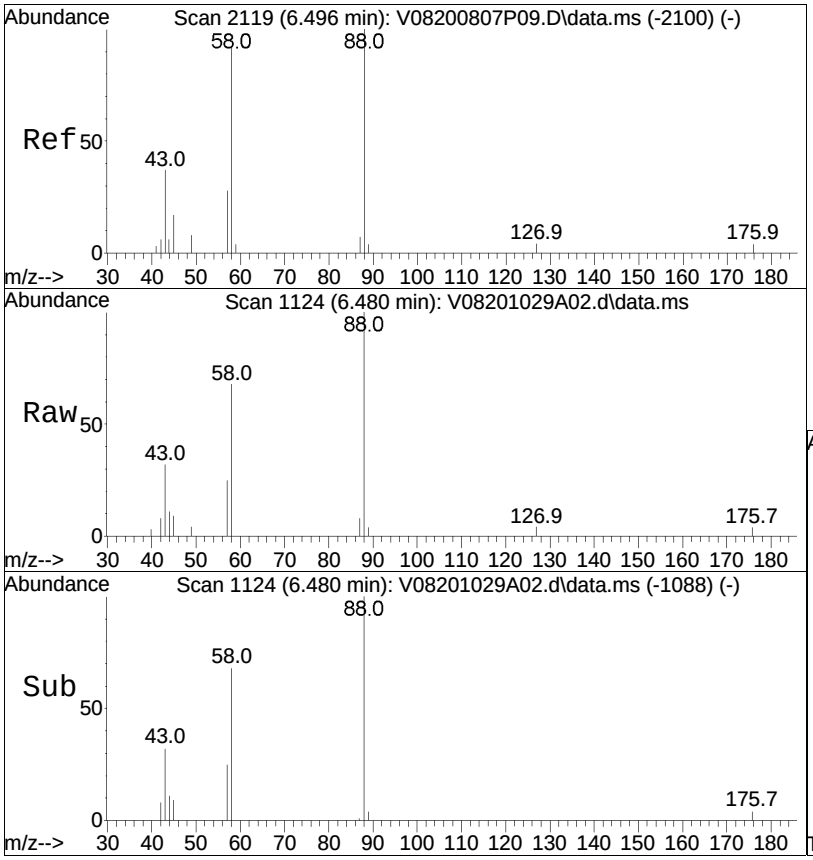


#48
Trichloroethene
Concen: 10.16 ug/L
RT: 5.583 min Scan# 953
Delta R.T. -0.005 min
Lab File: V08201029A02.d
Acq: 29 Oct 2020 8:32 am

Tgt Ion: 95 Resp: 39174

Ion	Ratio	Lower	Upper
95	100		
97	69.9	55.5	83.3
130	95.9	76.6	115.0

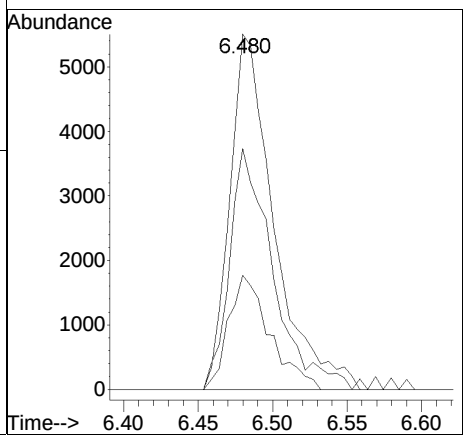


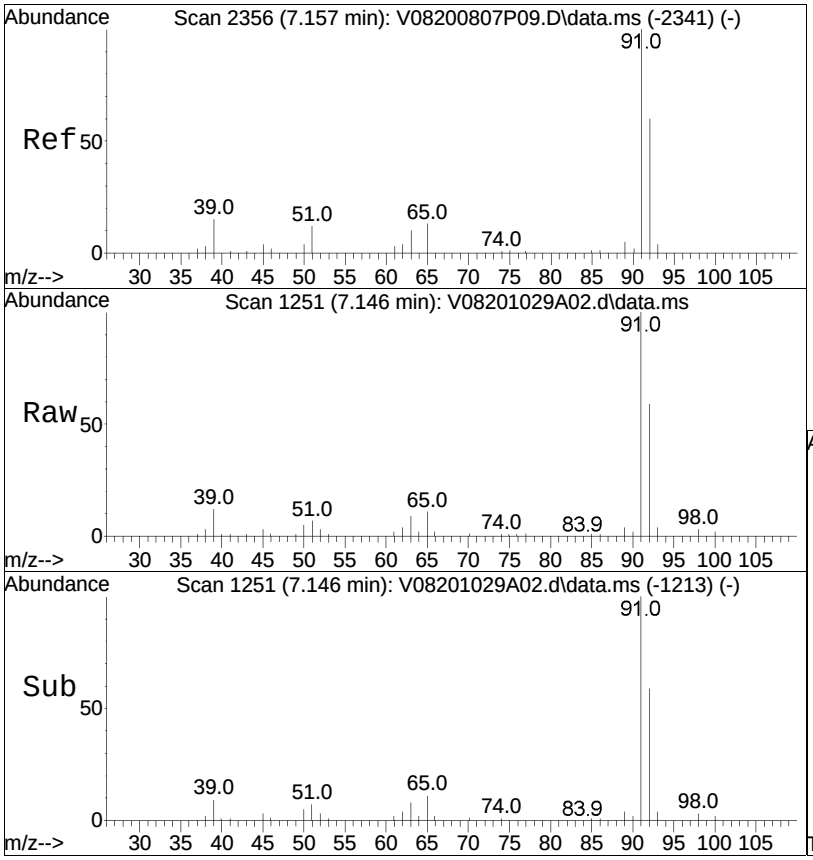


#57
1,4-Dioxane
Concen: 355.63 ug/L
RT: 6.480 min Scan# 1124
Delta R.T. -0.011 min
Lab File: V08201029A02.d
Acq: 29 Oct 2020 8:32 am

Tgt Ion: 88 Resp: 11364

Ion	Ratio	Lower	Upper
88	100		
58	66.5	76.7	115.1#
43	30.0	36.2	54.2#

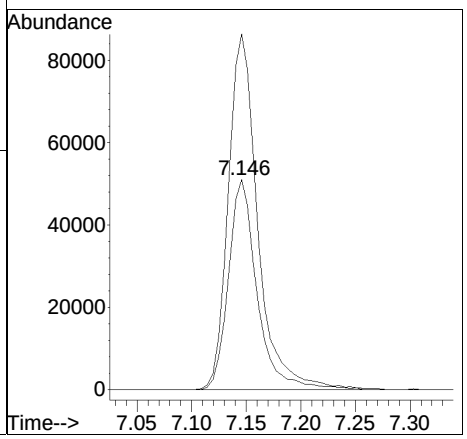


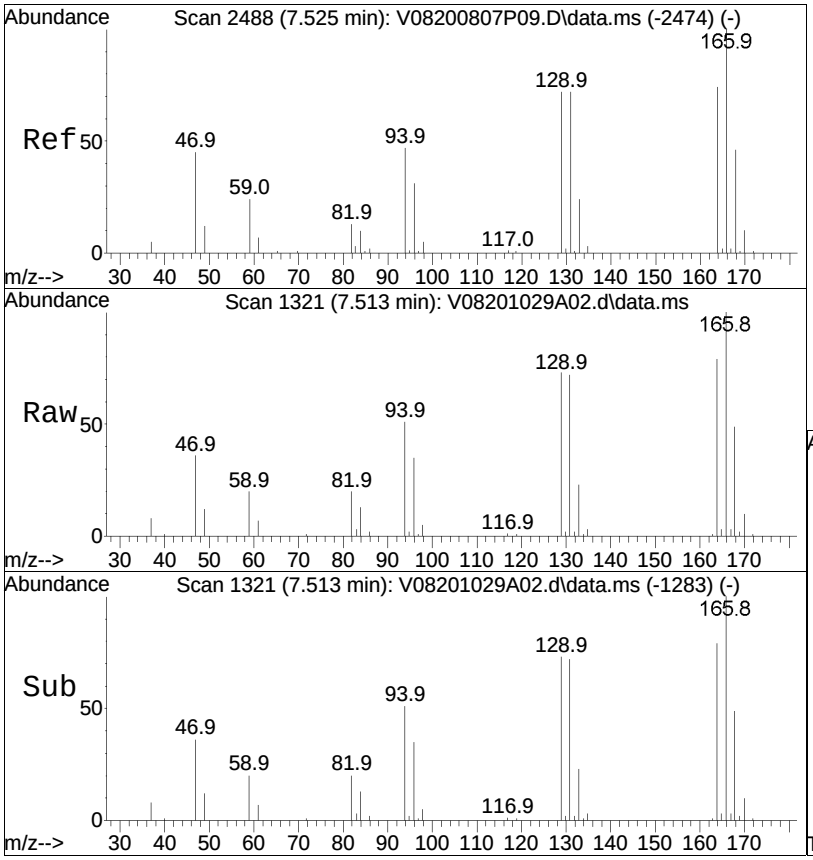


#61
Toluene
Concen: 9.94 ug/L
RT: 7.146 min Scan# 1251
Delta R.T. -0.000 min
Lab File: V08201029A02.d
Acq: 29 Oct 2020 8:32 am

Tgt Ion: 92 Resp: 92627

Ion	Ratio	Lower	Upper
92	100		
91	174.9	139.8	209.6

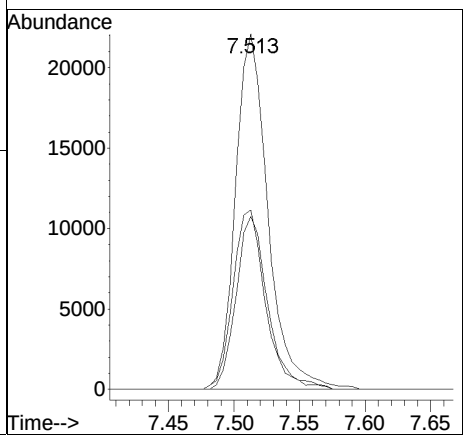


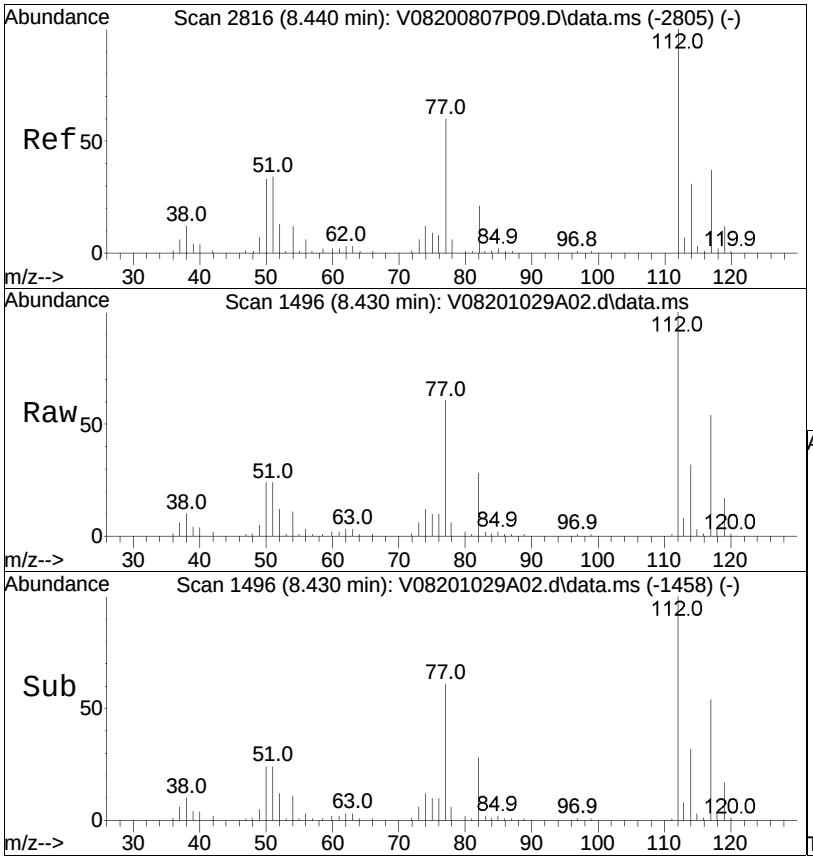


#63
Tetrachloroethene
Concen: 6.50 ug/L
RT: 7.513 min Scan# 1321
Delta R.T. -0.000 min
Lab File: V08201029A02.d
Acq: 29 Oct 2020 8:32 am

Tgt Ion:166 Resp: 38286

Ion	Ratio	Lower	Upper
166	100		
168	47.7	28.2	68.2
94	50.4	38.4	78.4

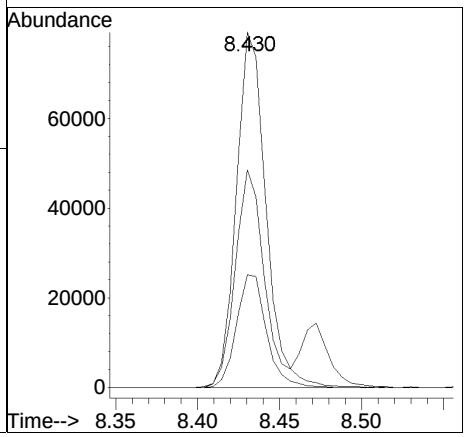


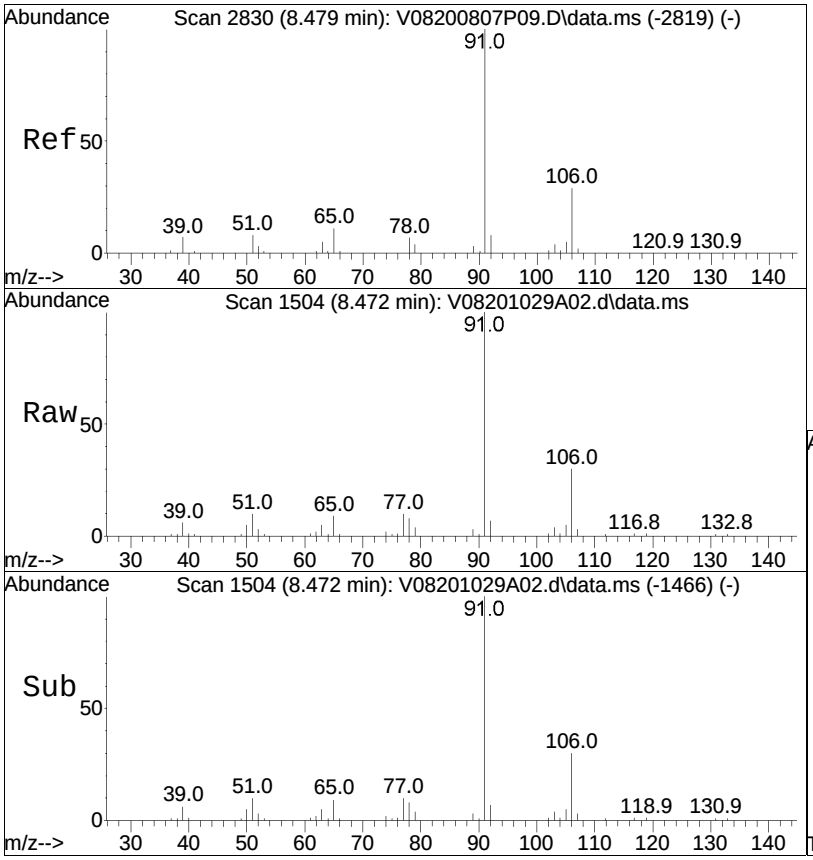


#73
Chlorobenzene
Concen: 9.96 ug/L
RT: 8.430 min Scan# 1496
Delta R.T. -0.000 min
Lab File: V08201029A02.d
Acq: 29 Oct 2020 8:32 am

Tgt Ion:112 Resp: 99474

Ion	Ratio	Lower	Upper
112	100		
77	60.3	55.4	83.0
114	32.1	25.4	38.2

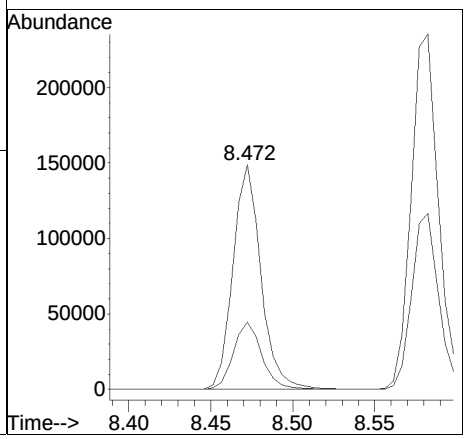


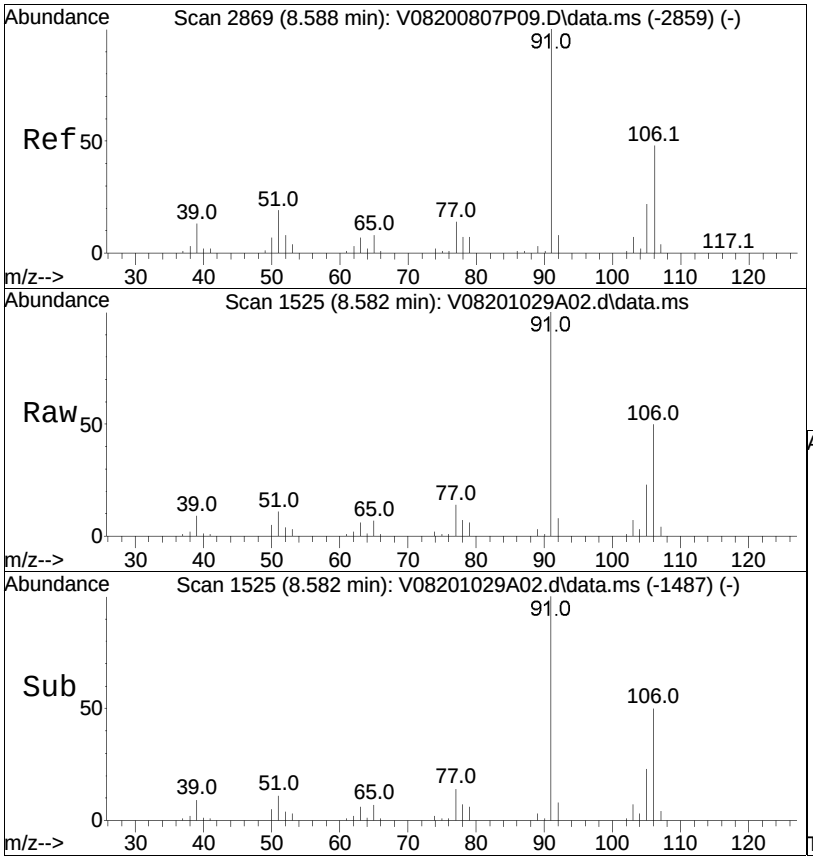


#74
Ethylbenzene
Concen: 10.09 ug/L
RT: 8.472 min Scan# 1504
Delta R.T. -0.000 min
Lab File: V08201029A02.d
Acq: 29 Oct 2020 8:32 am

Tgt Ion: 91 Resp: 177237

Ion	Ratio	Lower	Upper
91	100		
106	30.3	24.3	36.5

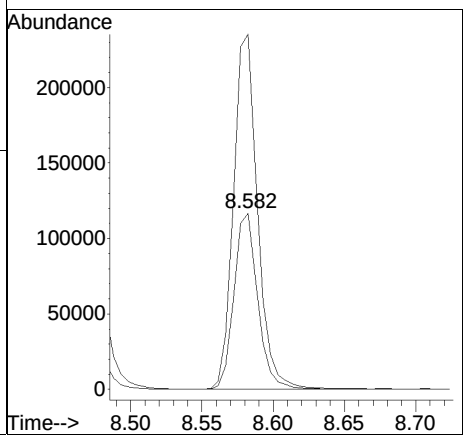


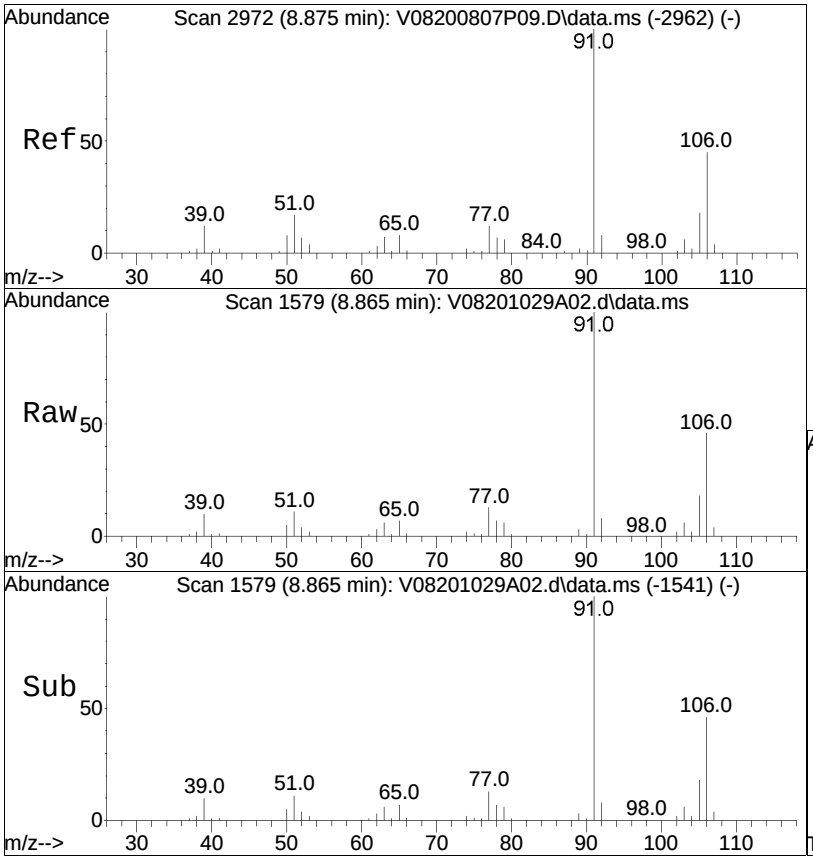


#76
p/m Xylene
Concen: 20.18 ug/L
RT: 8.582 min Scan# 1525
Delta R.T. -0.000 min
Lab File: V08201029A02.d
Acq: 29 Oct 2020 8:32 am

Tgt Ion:106 Resp: 135751

Ion	Ratio	Lower	Upper
106	100		
91	202.4	166.4	249.6

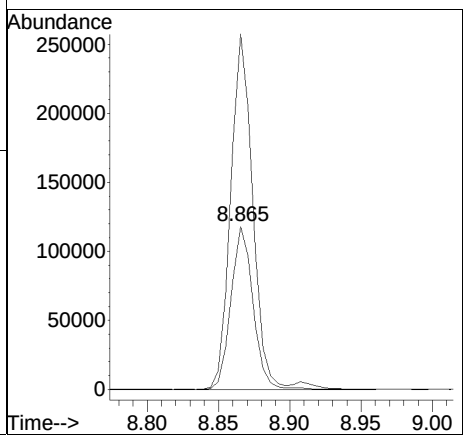


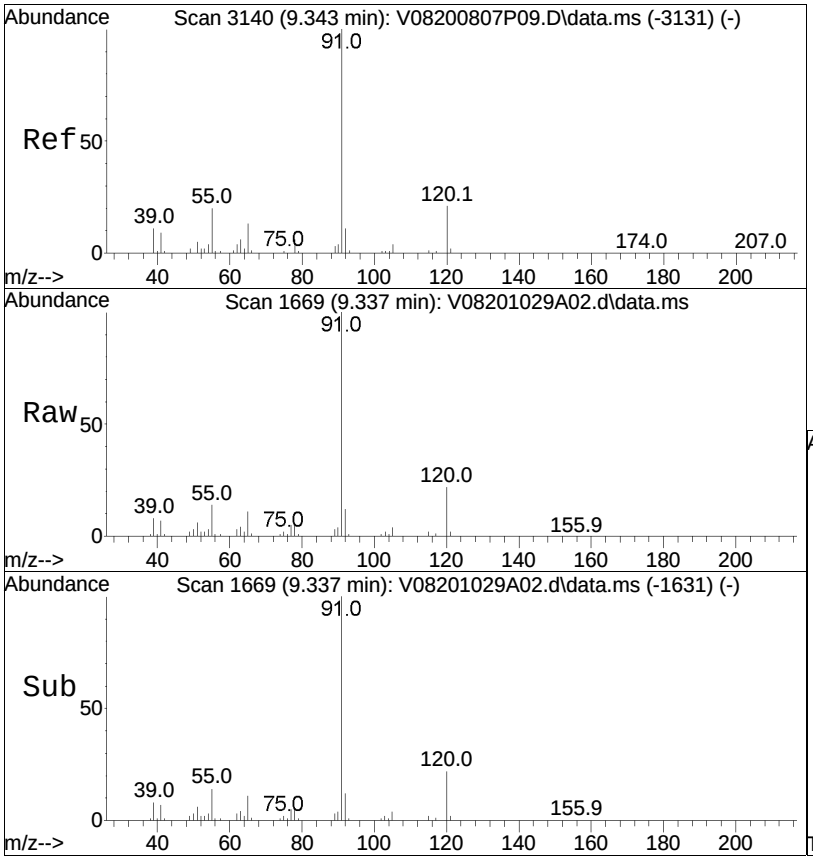


#77
o Xylene
Concen: 20.29 ug/L
RT: 8.865 min Scan# 1579
Delta R.T. -0.000 min
Lab File: V08201029A02.d
Acq: 29 Oct 2020 8:32 am

Tgt Ion:106 Resp: 127342

Ion	Ratio	Lower	Upper
106	100		
91	215.4	182.6	273.8

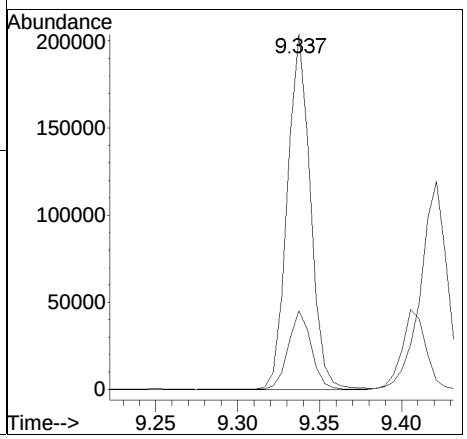


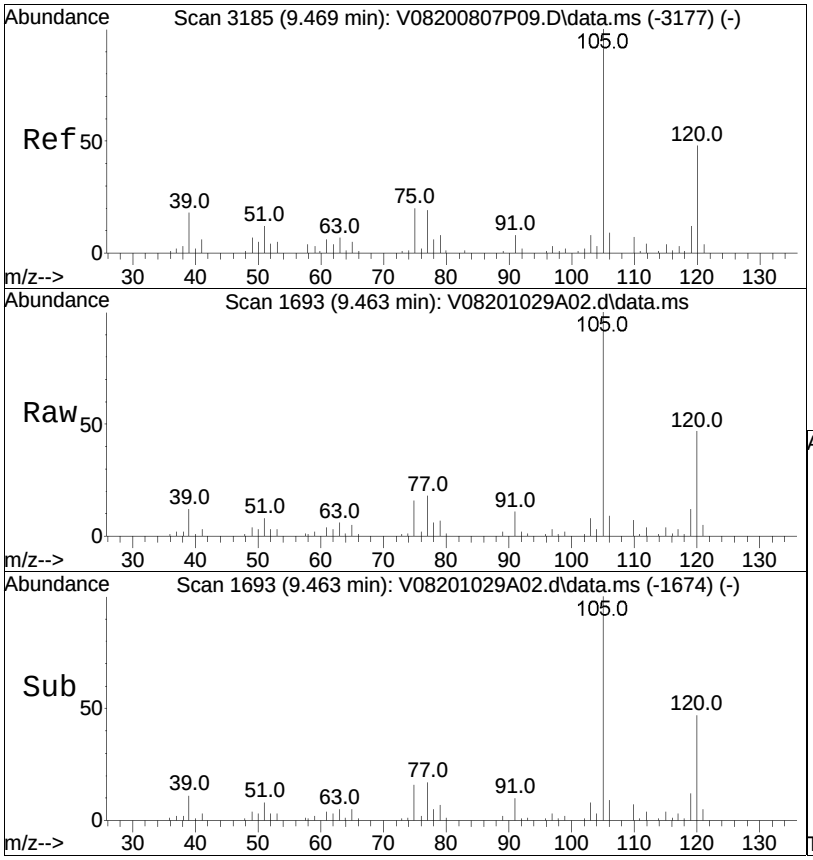


#85
n-Propylbenzene
Concen: 10.25 ug/L
RT: 9.337 min Scan# 1669
Delta R.T. -0.000 min
Lab File: V08201029A02.d
Acq: 29 Oct 2020 8:32 am

Tgt Ion: 91 Resp: 199549

Ion	Ratio	Lower	Upper
91	100		
120	22.0	17.0	25.6

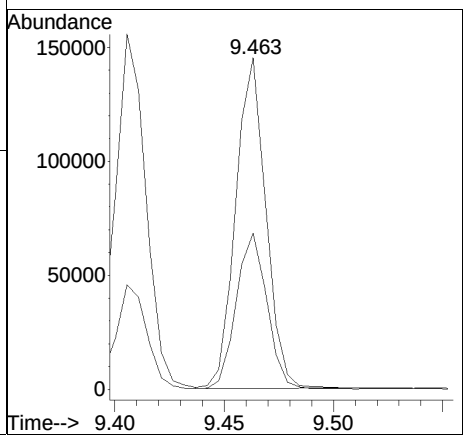


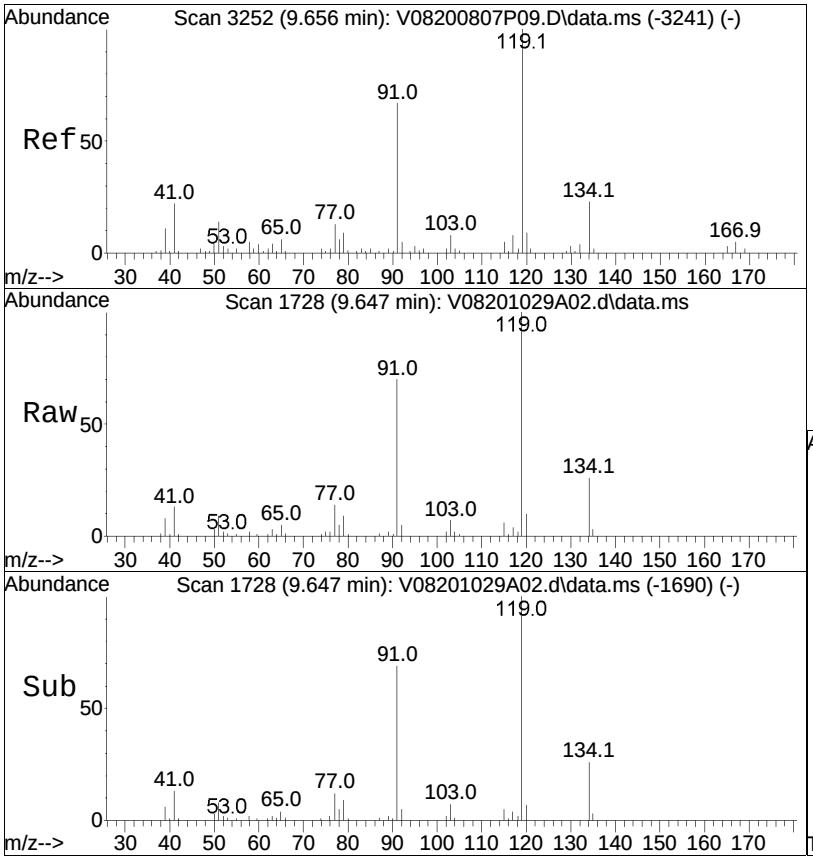


#90
1,3,5-Trimethylbenzene
Concen: 10.11 ug/L
RT: 9.463 min Scan# 1693
Delta R.T. -0.000 min
Lab File: V08201029A02.d
Acq: 29 Oct 2020 8:32 am

Tgt Ion:105 Resp: 139196

Ion	Ratio	Lower	Upper
105	100		
120	48.1	34.8	52.2

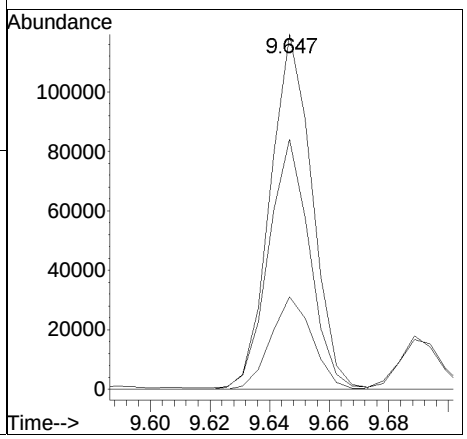


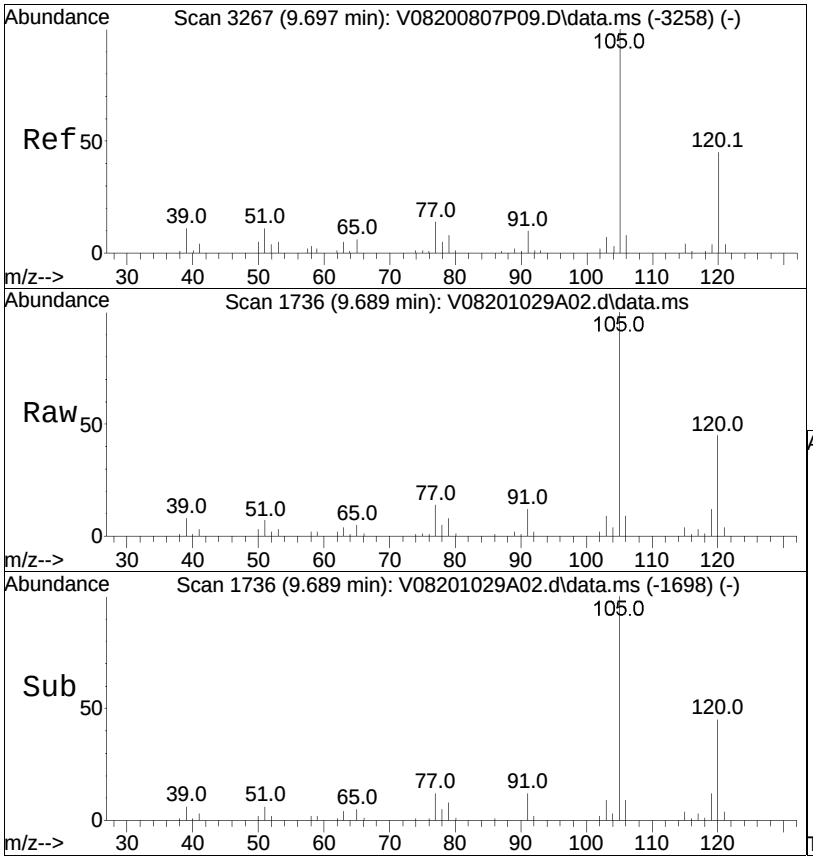


#94
tert-Butylbenzene
Concen: 9.51 ug/L
RT: 9.647 min Scan# 1728
Delta R.T. -0.000 min
Lab File: V08201029A02.d
Acq: 29 Oct 2020 8:32 am

Tgt Ion:119 Resp: 116927

Ion	Ratio	Lower	Upper
119	100		
91	68.3	51.4	77.2
134	25.9	18.3	27.5

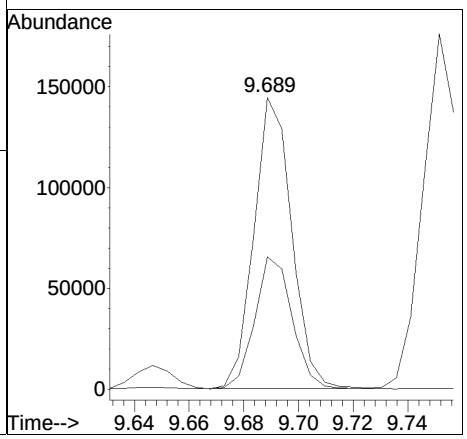


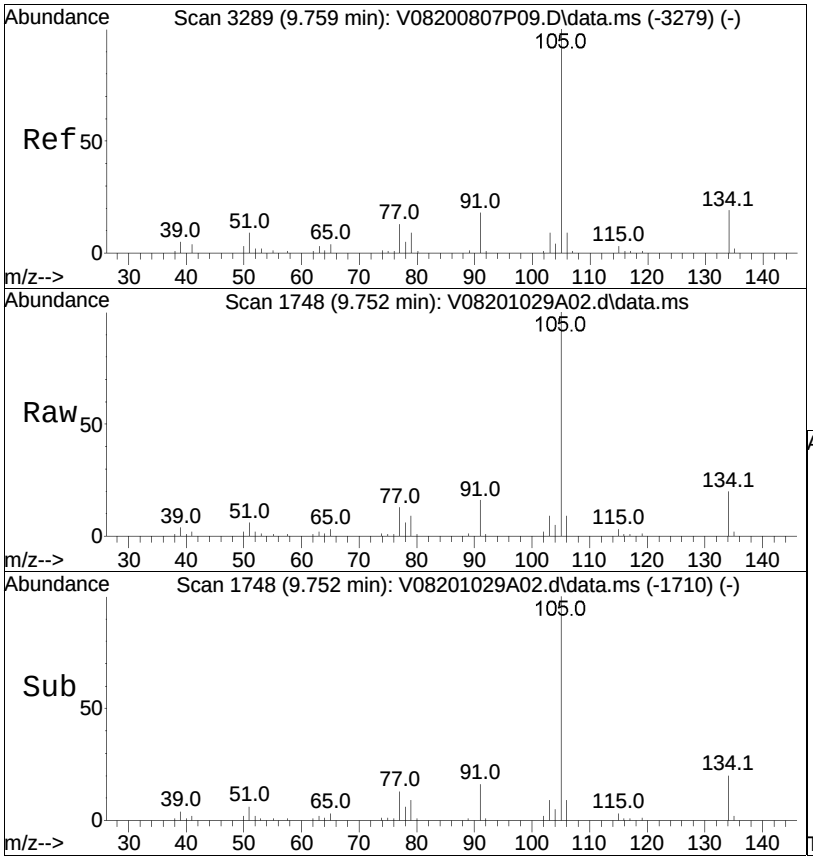


#97
1,2,4-Trimethylbenzene
Concen: 10.21 ug/L
RT: 9.689 min Scan# 1736
Delta R.T. -0.000 min
Lab File: V08201029A02.d
Acq: 29 Oct 2020 8:32 am

Tgt Ion:105 Resp: 138591

Ion	Ratio	Lower	Upper
105	100		
120	45.2	33.4	50.0

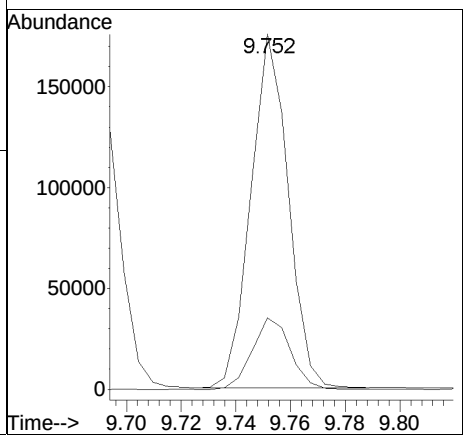


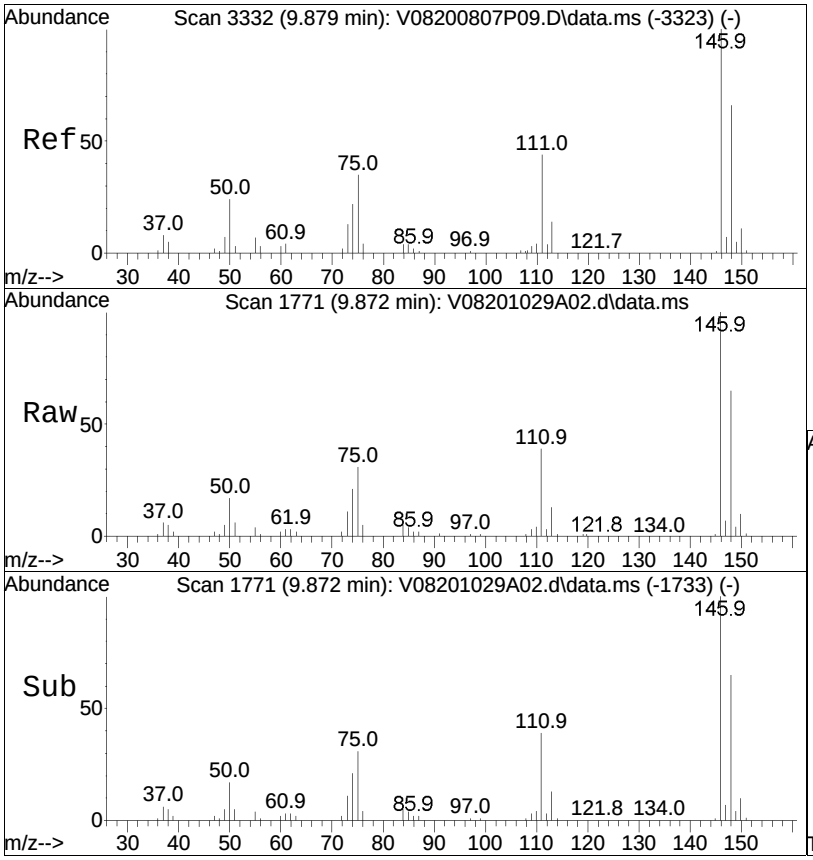


#98
sec-Butylbenzene
Concen: 10.40 ug/L
RT: 9.752 min Scan# 1748
Delta R.T. -0.000 min
Lab File: V08201029A02.d
Acq: 29 Oct 2020 8:32 am

Tgt Ion:105 Resp: 166492

Ion	Ratio	Lower	Upper
105	100		
134	20.8	12.5	26.1

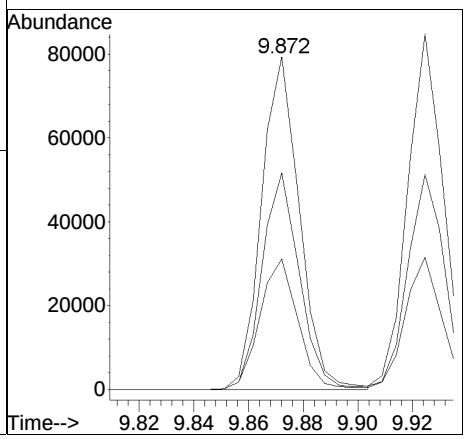


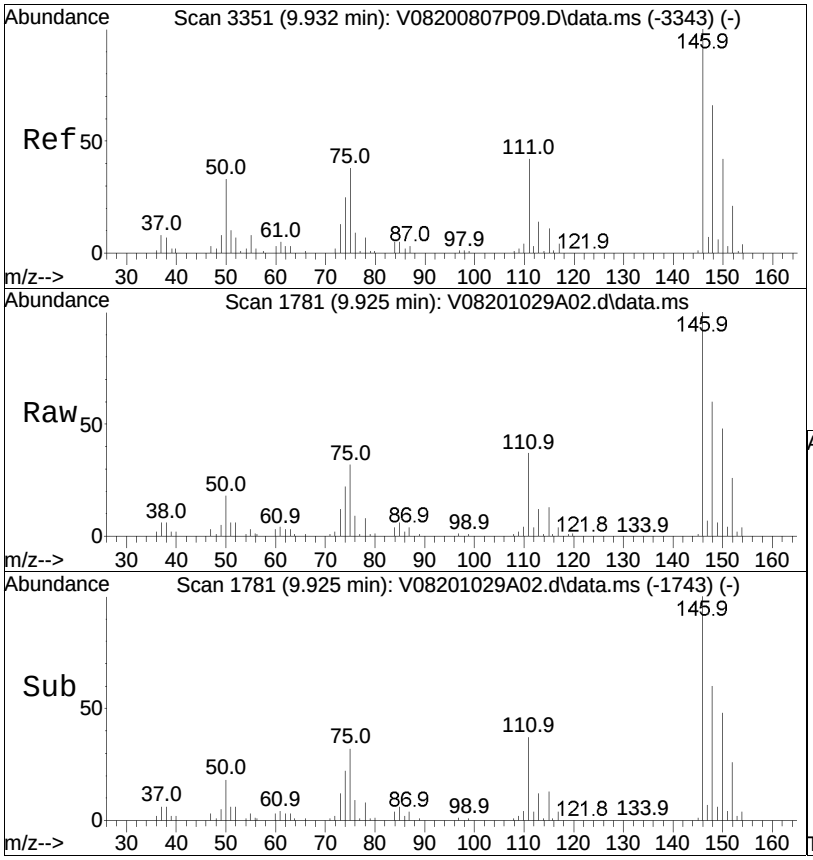


#100
1,3-Dichlorobenzene
Concen: 9.90 ug/L
RT: 9.872 min Scan# 1771
Delta R.T. -0.000 min
Lab File: V08201029A02.d
Acq: 29 Oct 2020 8:32 am

Tgt Ion:146 Resp: 76435

Ion	Ratio	Lower	Upper
146	100		
111	39.5	27.5	57.1
148	64.0	41.9	86.9

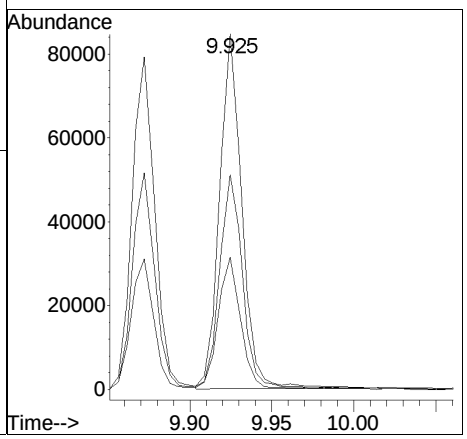


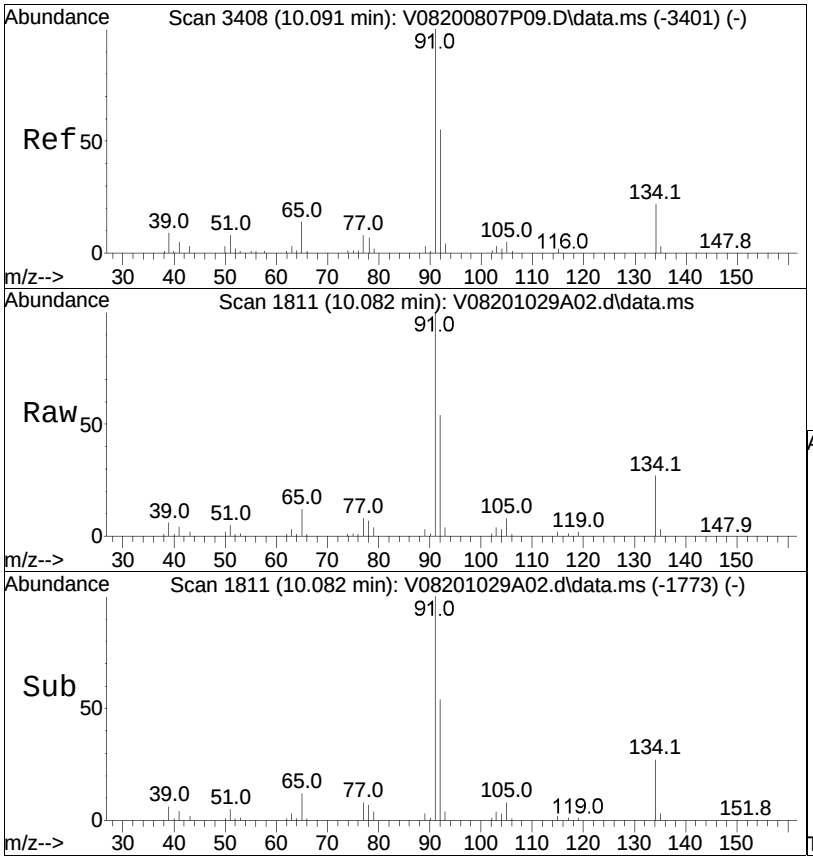


#101
1,4-Dichlorobenzene
Concen: 10.05 ug/L
RT: 9.925 min Scan# 1781
Delta R.T. -0.000 min
Lab File: V08201029A02.d
Acq: 29 Oct 2020 8:32 am

Tgt Ion:146 Resp: 80276

Ion	Ratio	Lower	Upper
146	100		
111	36.8	32.3	48.5
148	61.1	49.9	74.9

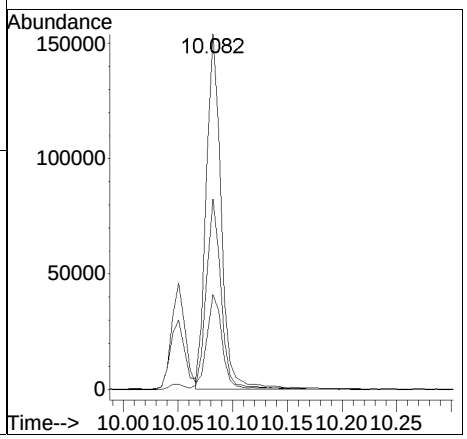


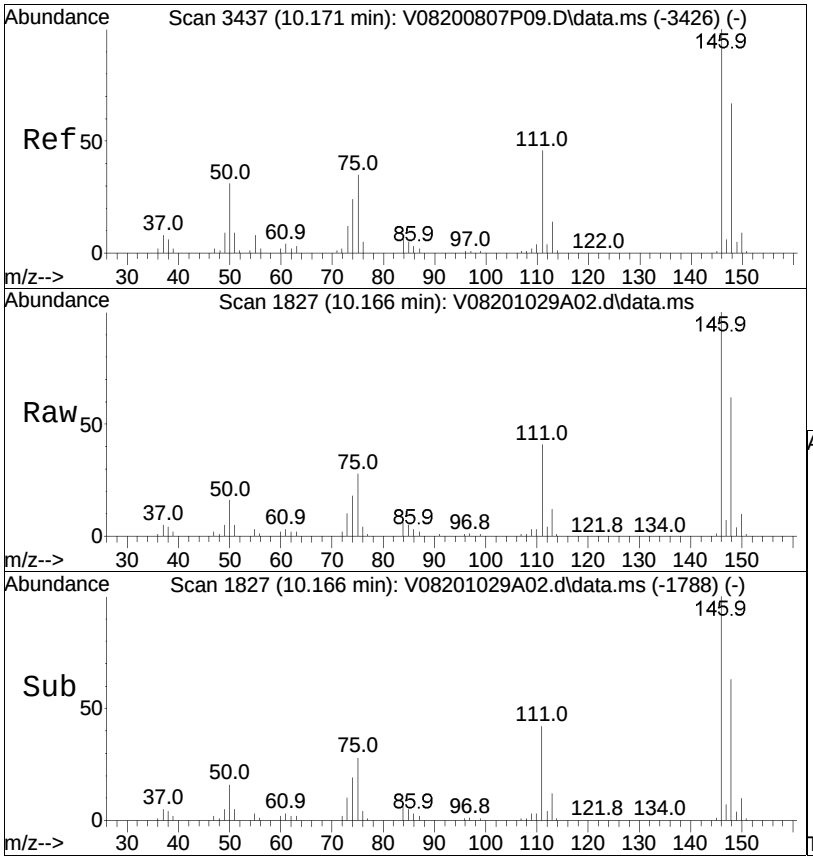


#103
n-Butylbenzene
Concen: 10.75 ug/L
RT: 10.082 min Scan# 1811
Delta R.T. -0.000 min
Lab File: V08201029A02.d
Acq: 29 Oct 2020 8:32 am

Tgt Ion: 91 Resp: 147586

Ion	Ratio	Lower	Upper
91	100		
92	52.5	43.0	64.4
134	25.9	19.6	29.4

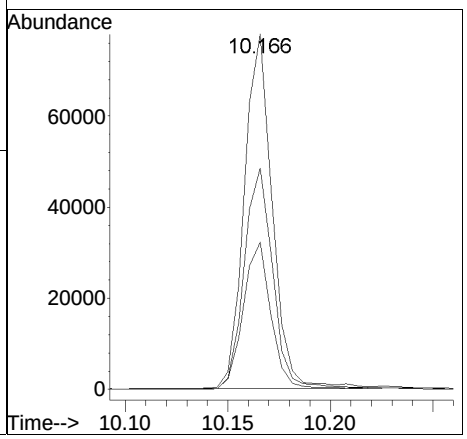




#104
1,2-Dichlorobenzene
Concen: 9.92 ug/L
RT: 10.166 min Scan# 1827
Delta R.T. 0.005 min
Lab File: V08201029A02.d
Acq: 29 Oct 2020 8:32 am

Tgt Ion:146 Resp: 74171

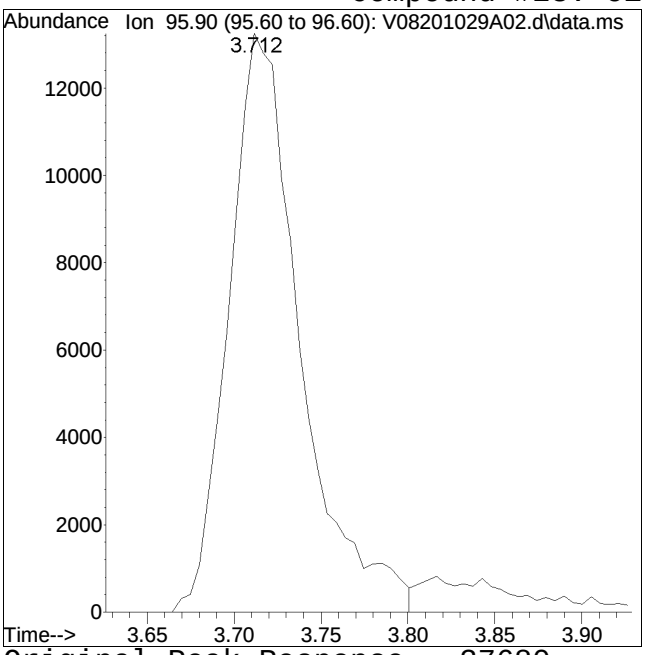
Ion	Ratio	Lower	Upper
146	100		
111	41.8	28.3	58.7
148	65.3	42.3	87.8



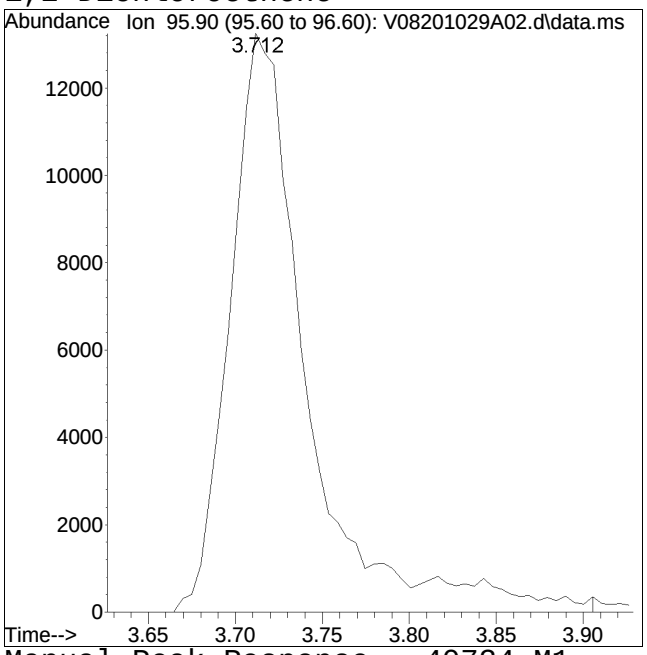
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201029A02.d Operator : VOA108:PD
Date Inj'd : 10/29/2020 8:32 am Instrument : VOA 108
Sample : WG1428085-4,31,10,10 Quant Date : 10/29/2020 8:55 am

Compound #28: cis-1,2-Dichloroethene



Original Peak Response = 37680



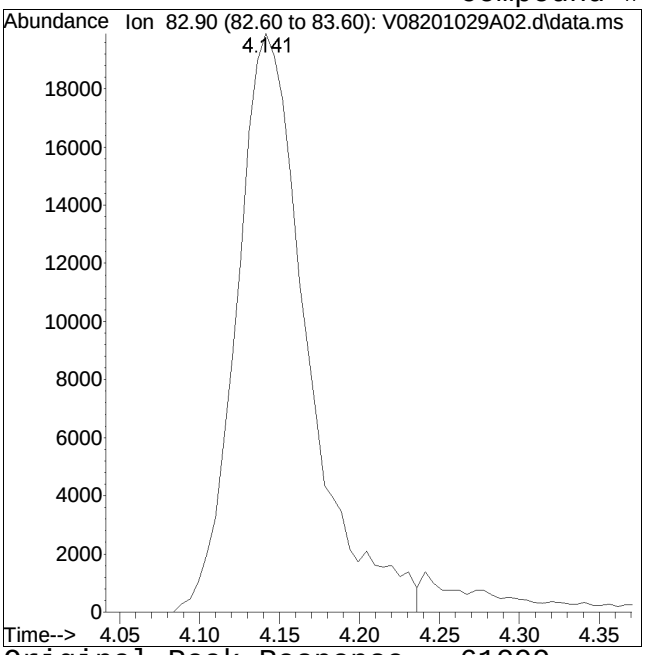
Manual Peak Response = 40734 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

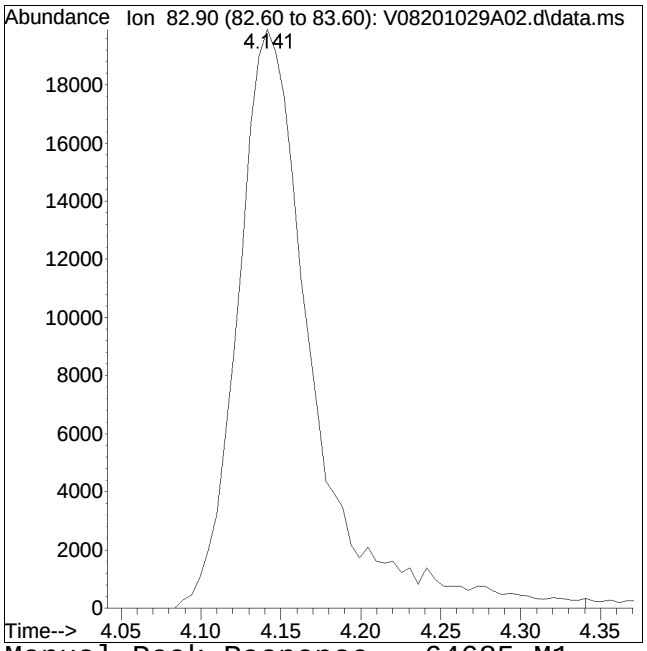
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201029A02.d Operator : VOA108:PD
Date Inj'd : 10/29/2020 8:32 am Instrument : VOA 108
Sample : WG1428085-4,31,10,10 Quant Date : 10/29/2020 8:55 am

Compound #32: Chloroform



Original Peak Response = 61099



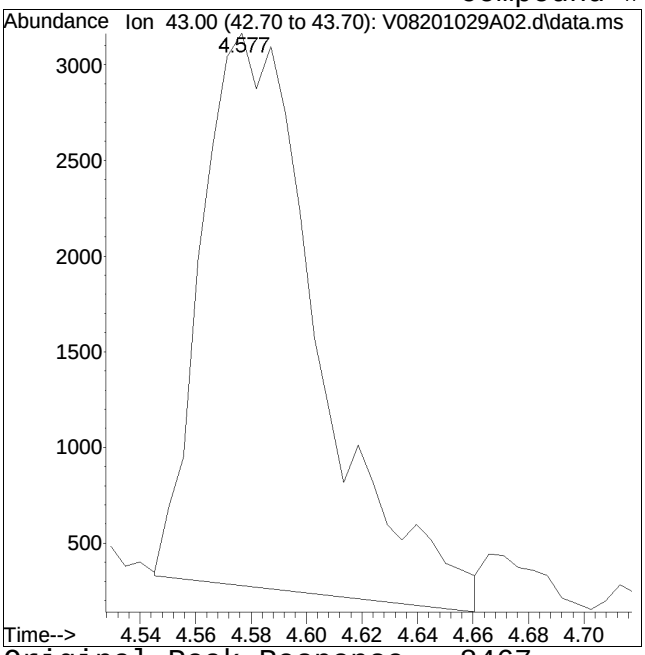
Manual Peak Response = 64685 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

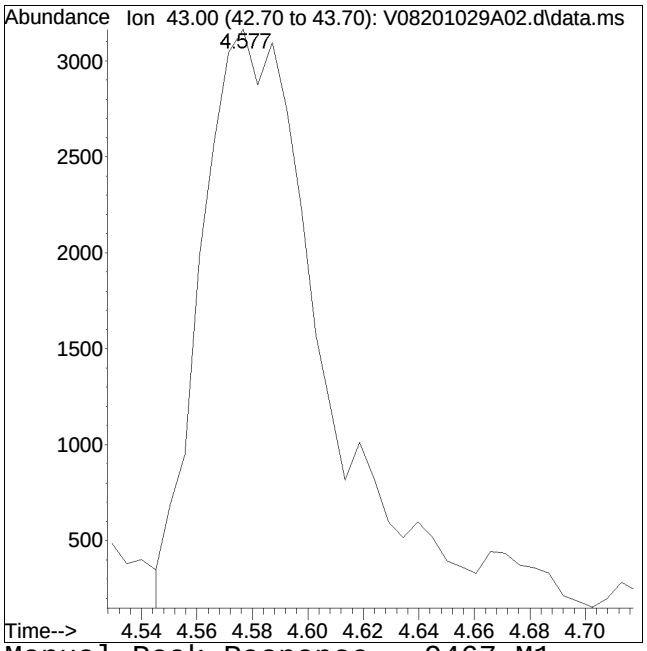
Manual Integration Report

Data Path : I:\VOLATILES\VOA108\2020\2QMethod : V108_201013A_8260.m
Data File : V08201029A02.d Operator : VOA108:PD
Date Inj'd : 10/29/2020 8:32 am Instrument : VOA 108
Sample : WG1428085-4,31,10,10 Quant Date : 10/29/2020 8:55 am

Compound #39: 2-Butanone



Original Peak Response = 8467



Manual Peak Response = 9467 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\201029N\
Data File : V05201029N02.d
Acq On : 29 Oct 2020 5:39 pm
Operator : VOA105:LAC
Sample : WG1428497-4,31,10,10
Misc : WG1428497,ICAL17185
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 29 19:43:42 2020
Quant Method : I:\VOLATILES\VOA105\2020\201029N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\201029N\V05201029N01.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.948	96	322279	10.000	ug/L	0.00
Standard Area 1 = 327904			Recovery = 98.28%			
59) Chlorobenzene-d5	9.461	117	248126	10.000	ug/L	-0.01
Standard Area 1 = 254770			Recovery = 97.39%			
79) 1,4-Dichlorobenzene-d4	12.174	152	128980	10.000	ug/L	-0.02
Standard Area 1 = 130144			Recovery = 99.11%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.156	113	84235	9.638	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.38%			
43) 1,2-Dichloroethane-d4	5.674	65	104536	9.759	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.59%			
60) Toluene-d8	7.621	98	315039	10.253	ug/L	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.53%			
83) 4-Bromofluorobenzene	10.960	95	119061	10.310	ug/L	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.10%			
Target Compounds						Qvalue
4) Vinyl chloride	1.889	62	87461	11.196	ug/L	100
10) 1,1-Dichloroethene	2.926	96	59875	7.898	ug/L	90
15) Methylene chloride	3.474	84	66536	9.353	ug/L #	66
17) Acetone	3.523	43	14180	8.831	ug/L	99
18) trans-1,2-Dichloroethene	3.620	96	61523	9.249	ug/L	89
20) Methyl tert-butyl ether	3.708	73	119372	7.570	ug/L #	86
23) 1,1-Dichloroethane	4.198	63	134315	9.508	ug/L	96
28) cis-1,2-Dichloroethene	4.716	96	77581	9.513	ug/L	92
32) Chloroform	4.970	83	117961	8.850	ug/L #	93
34) Carbon tetrachloride	5.097	117	85942	8.421	ug/L	98
37) 1,1,1-Trichloroethane	5.166	97	106010	8.578	ug/L	92
39) 2-Butanone	5.273	43	20463	8.167	ug/L #	65
41) Benzene	5.528	78	263091	9.574	ug/L #	92
44) 1,2-Dichloroethane	5.743	62	93893	9.118	ug/L	97
48) Trichloroethene	6.124	95	71995	8.949	ug/L	97
57) 1,4-Dioxane	6.956	88	16683	336.617	ug/L #	81
61) Toluene	7.680	92	167209	9.329	ug/L	98
63) Tetrachloroethene	8.120	166	82516	9.703	ug/L	90
73) Chlorobenzene	9.480	112	182826	9.062	ug/L	93
74) Ethylbenzene	9.510	91	327599	9.176	ug/L	94

Data Path : I:\VOLATILES\VOA105\2020\201029N\
Data File : V05201029N02.d
Acq On : 29 Oct 2020 5:39 pm
Operator : VOA105:LAC
Sample : WG1428497-4,31,10,10
Misc : WG1428497,ICAL17185
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 29 19:43:42 2020
Quant Method : I:\VOLATILES\VOA105\2020\201029N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2020\201029N\V05201029N01.d
Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVE

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	p/m Xylene	9.696	106	255045	18.225	ug/L	86
77)	o Xylene	10.244	106	232285	18.316	ug/L	84
85)	n-Propylbenzene	11.116	91	381120	9.412	ug/L	96
90)	1,3,5-Trimethylbenzene	11.342	105	263655	9.360	ug/L	94
94)	tert-Butylbenzene	11.675	119	223735	8.963	ug/L	94
97)	1,2,4-Trimethylbenzene	11.763	105	250916	9.324	ug/L	94
98)	sec-Butylbenzene	11.871	105	310028	9.197	ug/L	98
100)	1,3-Dichlorobenzene	12.096	146	144348	9.489	ug/L	97
101)	1,4-Dichlorobenzene	12.194	146	144319	9.424	ug/L	96
103)	n-Butylbenzene	12.458	91	226700	8.480	ug/L	98
104)	1,2-Dichlorobenzene	12.615	146	128375	9.507	ug/L	96

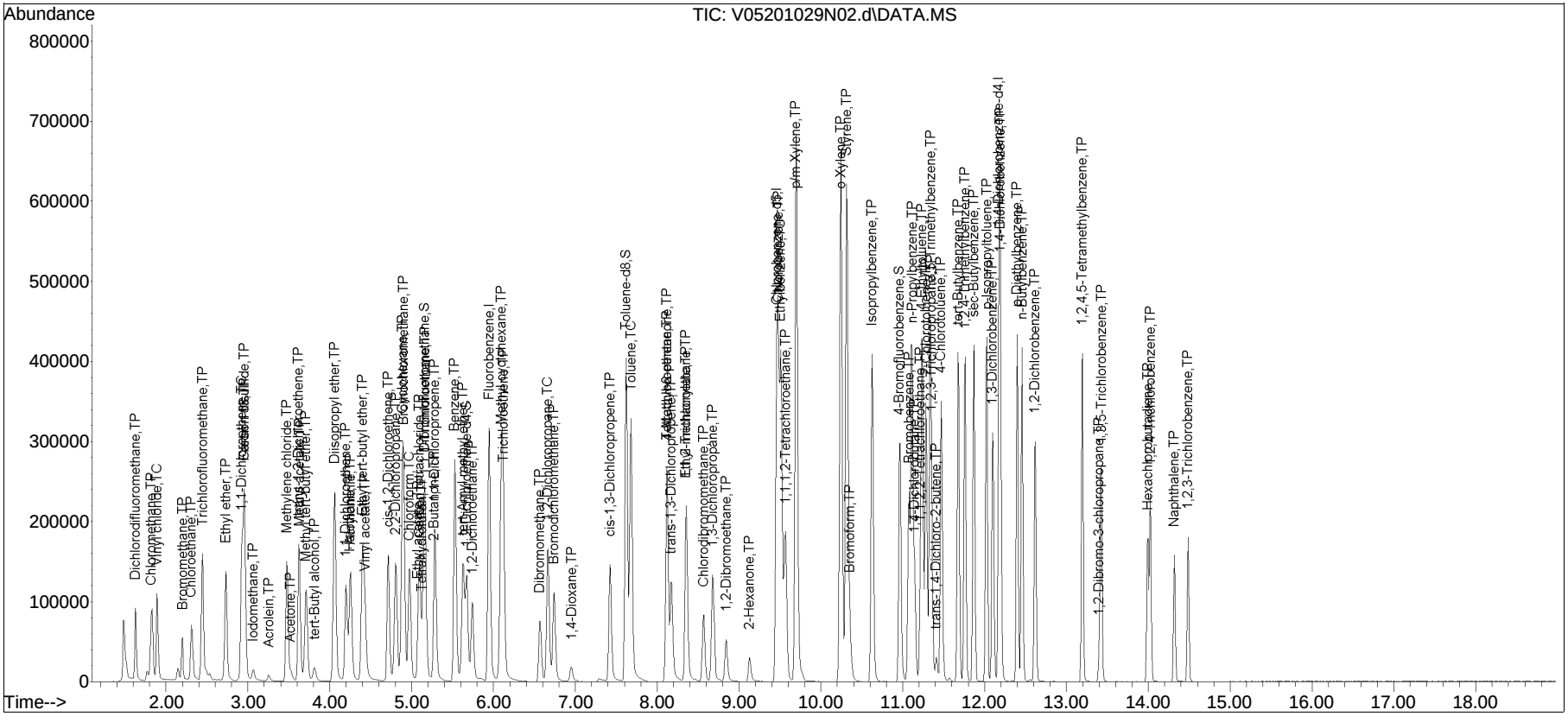
(#) = qualifier out of range (m) = manual integration (+) = signals summed

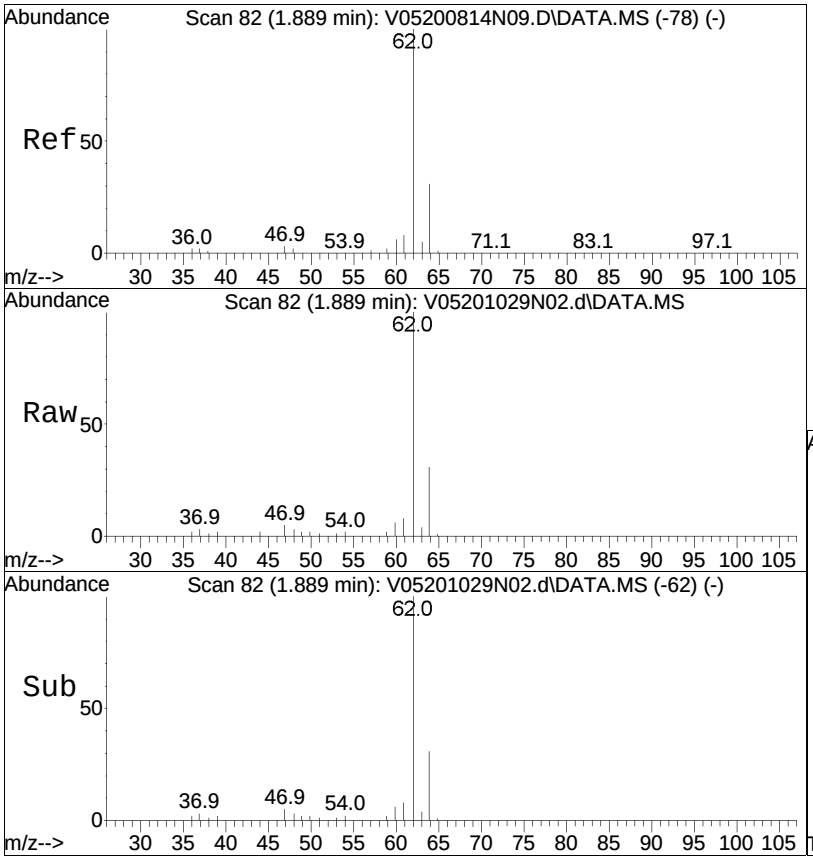
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2020\201029N\
Data File : V05201029N02.d
Acq On : 29 Oct 2020 5:39 pm
Operator : VOA105:LAC
Sample : WG1428497-4,31,10,10
Misc : WG1428497,ICAL17185
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 29 19:43:42 2020
Quant Method : I:\VOLATILES\VOA105\2020\201029N\V105_200930N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu Oct 01 13:02:53 2020
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE - Megamix+Diox-2CEVEV05201029N01.d•

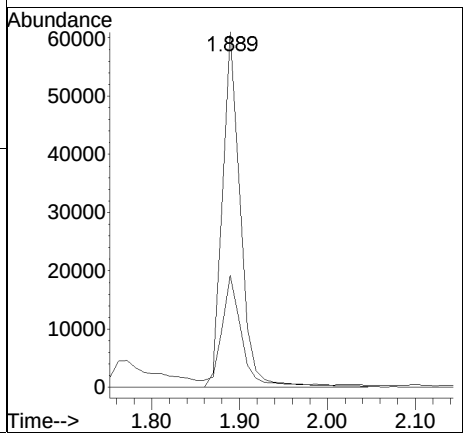


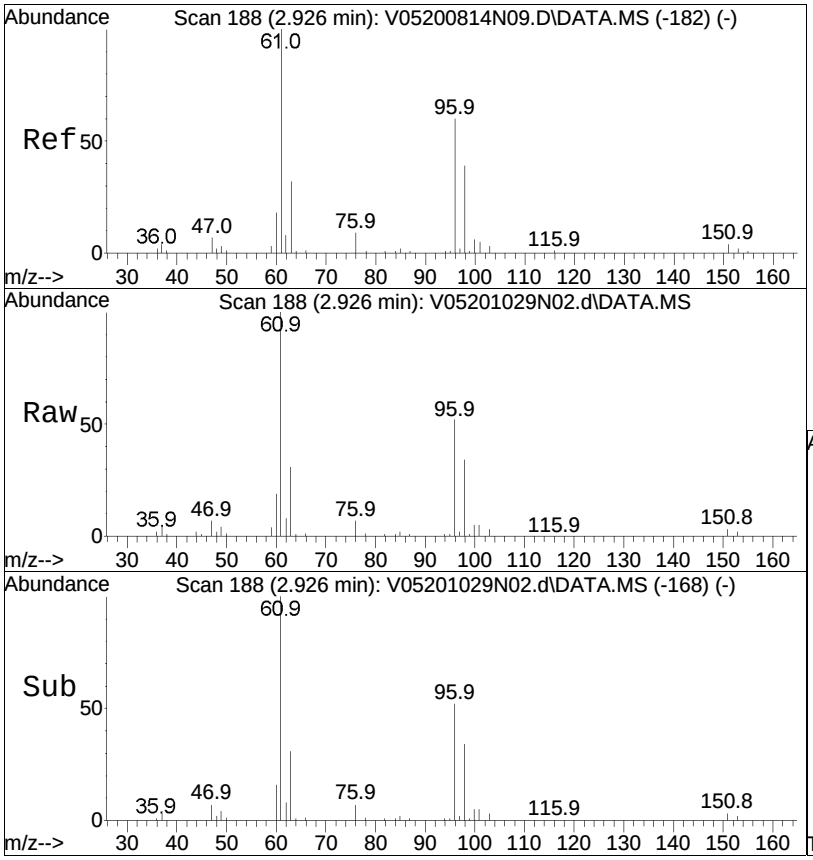


#4
Vinyl chloride
Concen: 11.20 ug/L
RT: 1.889 min Scan# 82
Delta R.T. 0.000 min
Lab File: V05201029N02.d
Acq: 29 Oct 2020 5:39 pm

Tgt Ion: 62 Resp: 87461

Ion	Ratio	Lower	Upper
62	100		
64	33.4	13.5	53.5

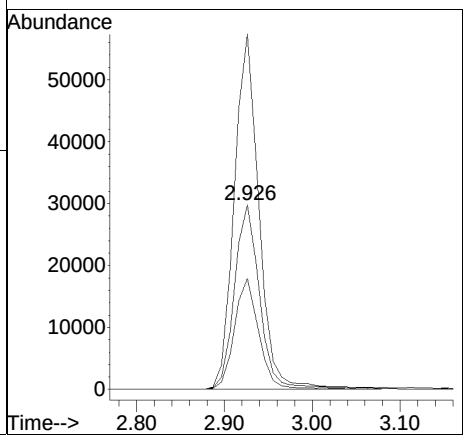


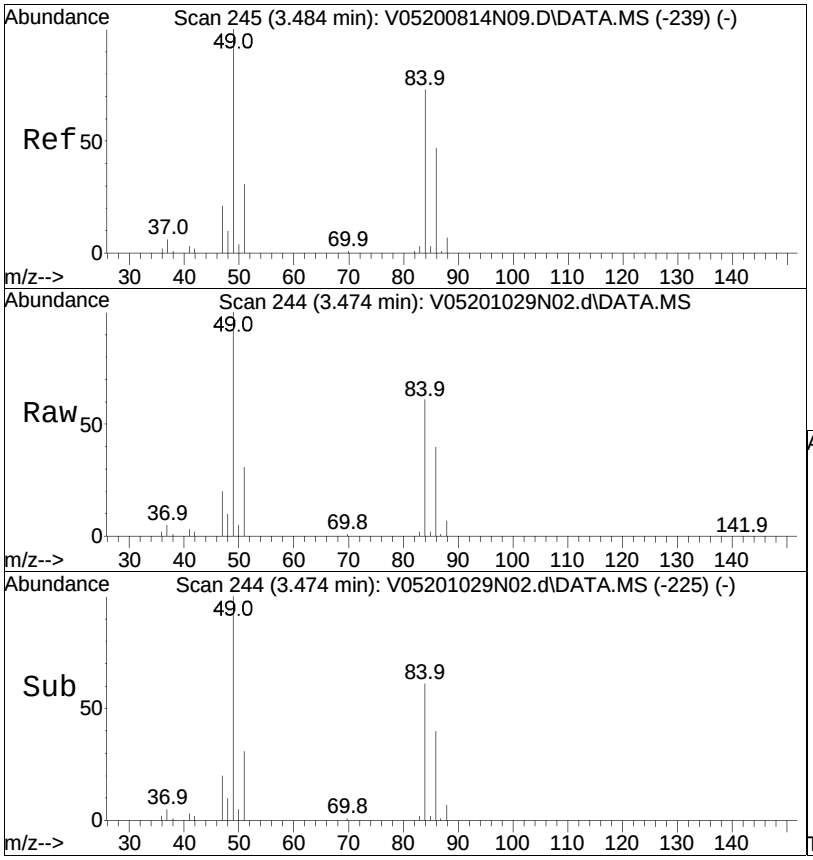


#10
1,1-Dichloroethene
Concen: 7.90 ug/L
RT: 2.926 min Scan# 188
Delta R.T. 0.000 min
Lab File: V05201029N02.d
Acq: 29 Oct 2020 5:39 pm

Tgt Ion: 96 Resp: 59875

Ion	Ratio	Lower	Upper
96	100		
61	188.2	136.7	205.1
63	58.1	45.0	67.6

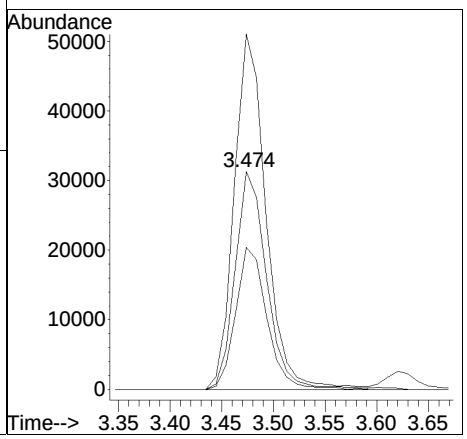


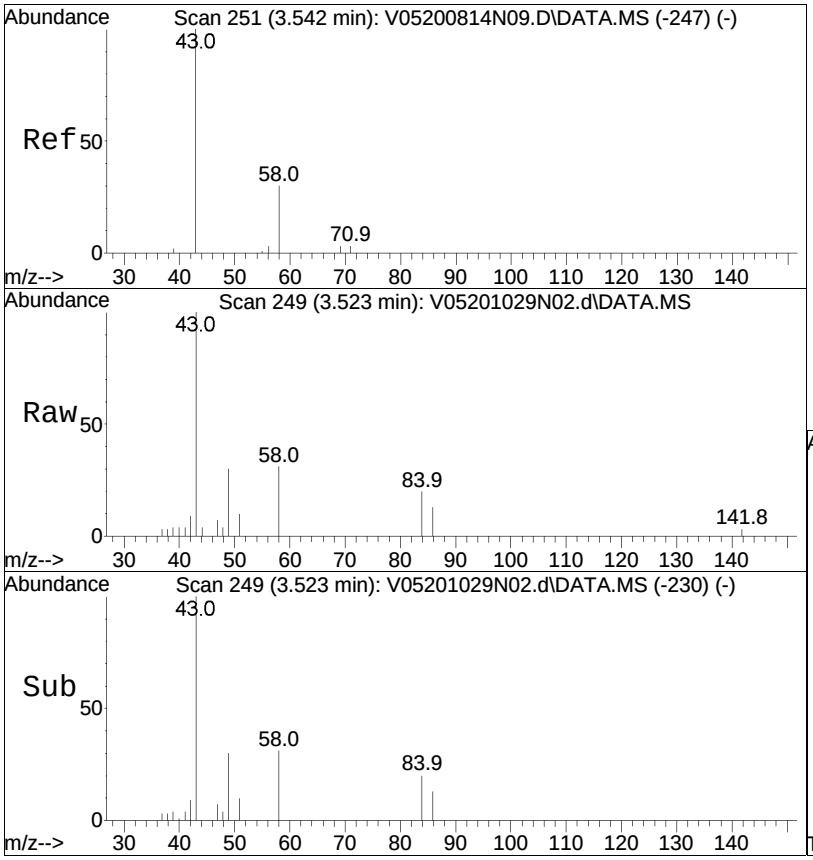


#15
Methylene chloride
Concen: 9.35 ug/L
RT: 3.474 min Scan# 244
Delta R.T. -0.010 min
Lab File: V05201029N02.d
Acq: 29 Oct 2020 5:39 pm

Tgt Ion: 84 Resp: 66536

Ion	Ratio	Lower	Upper
84	100		
86	64.5	42.1	87.5
49	163.4	69.3	143.9#

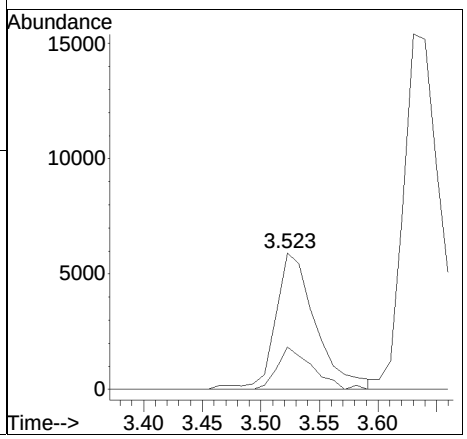


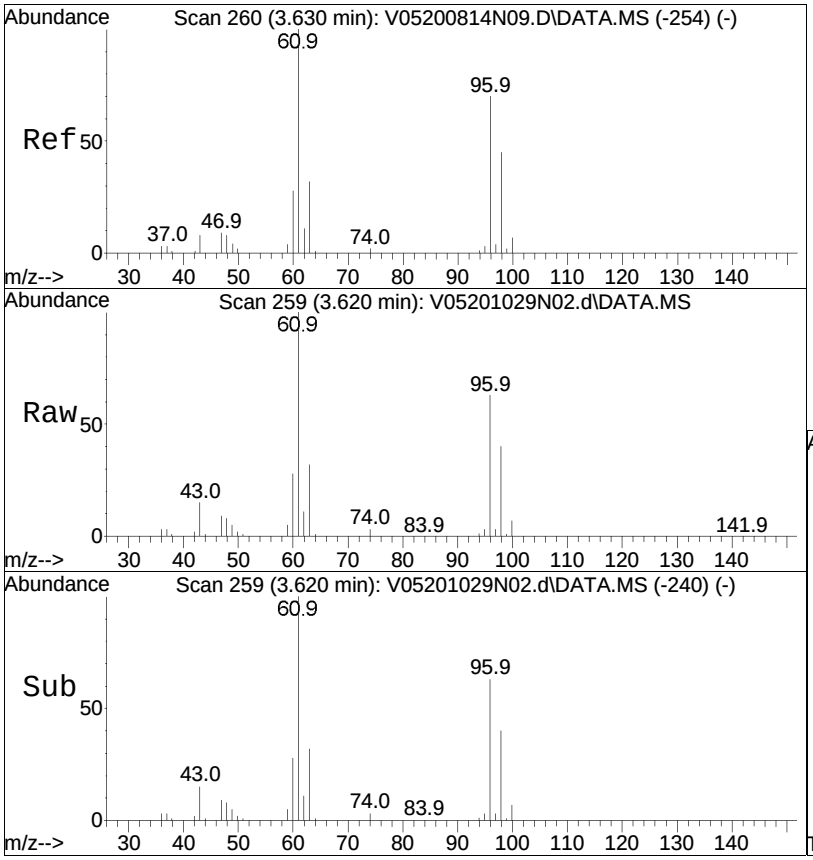


#17
Acetone
Concen: 8.83 ug/L
RT: 3.523 min Scan# 249
Delta R.T. -0.010 min
Lab File: V05201029N02.d
Acq: 29 Oct 2020 5:39 pm

Tgt Ion: 43 Resp: 14180

Ion	Ratio	Lower	Upper
43	100		
58	27.2	22.0	33.0

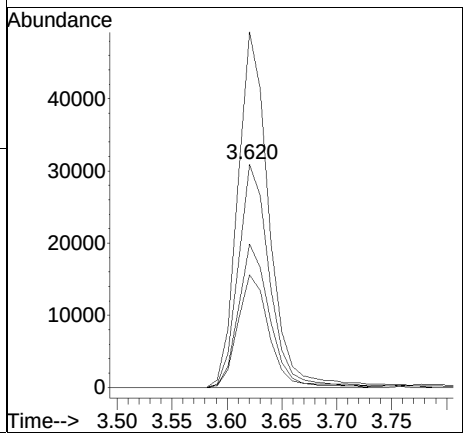


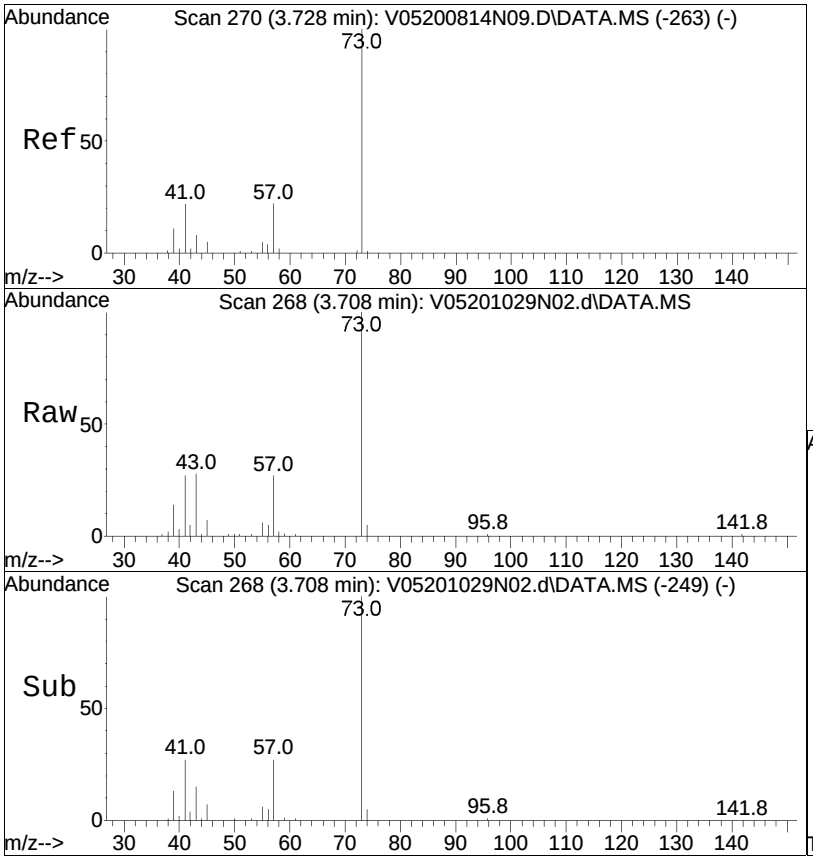


#18
trans-1,2-Dichloroethene
Concen: 9.25 ug/L
RT: 3.620 min Scan# 259
Delta R.T. -0.010 min
Lab File: V05201029N02.d
Acq: 29 Oct 2020 5:39 pm

Tgt Ion: 96 Resp: 61523

Ion	Ratio	Lower	Upper
96	100		
61	160.4	91.7	190.5
98	64.3	41.1	85.5
63	50.5	29.4	61.0

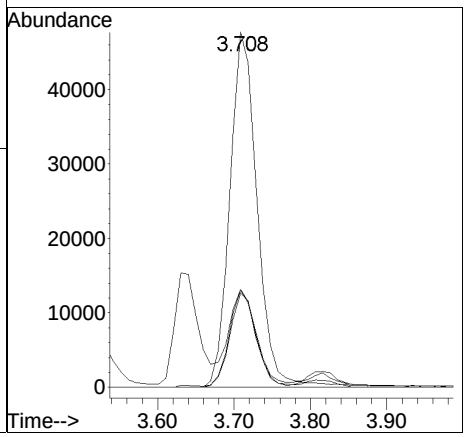


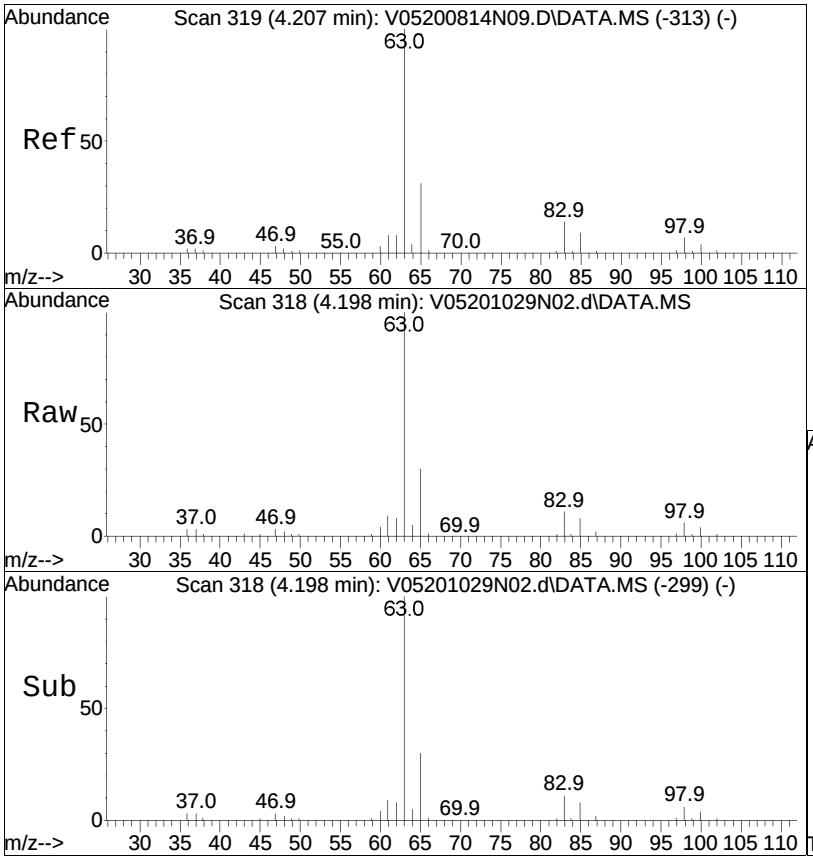


#20
Methyl tert-butyl ether
Concen: 7.57 ug/L
RT: 3.708 min Scan# 268
Delta R.T. -0.010 min
Lab File: V05201029N02.d
Acq: 29 Oct 2020 5:39 pm

Tgt Ion: 73 Resp: 119372

Ion	Ratio	Lower	Upper
73	100		
57	25.6	11.8	24.6#
43	27.1	13.5	27.9
41	26.2	13.3	27.5

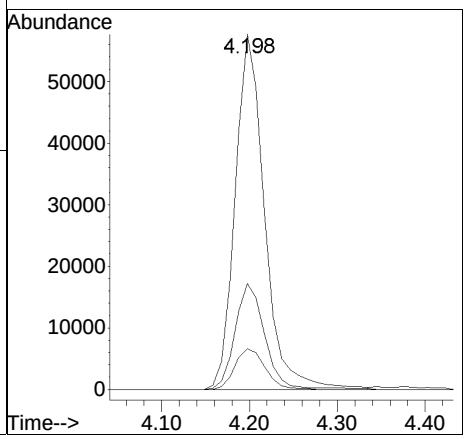


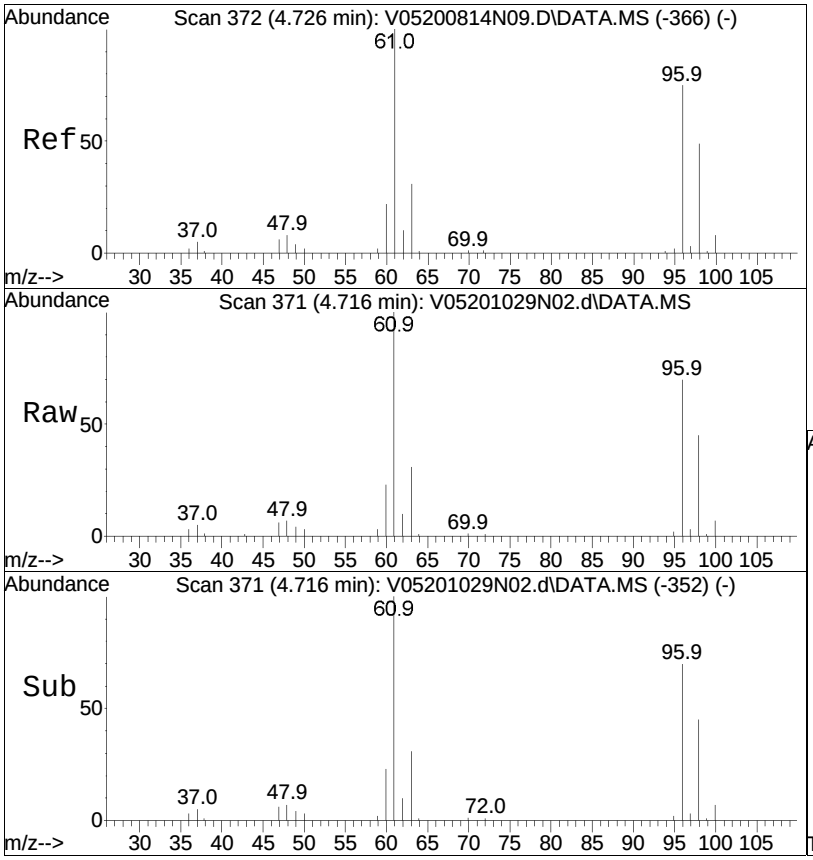


#23
1,1-Dichloroethane
Concen: 9.51 ug/L
RT: 4.198 min Scan# 318
Delta R.T. -0.009 min
Lab File: V05201029N02.d
Acq: 29 Oct 2020 5:39 pm

Tgt Ion: 63 Resp: 134315

Ion	Ratio	Lower	Upper
63	100		
65	30.1	11.9	51.9
83	11.7	0.0	34.2

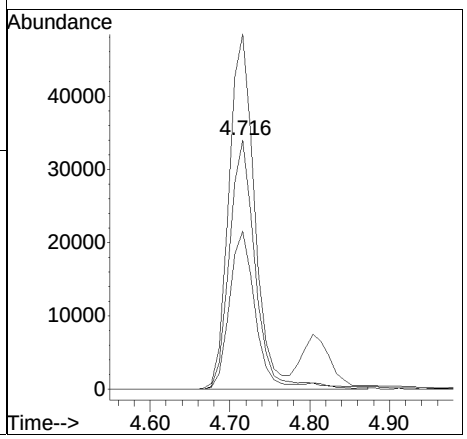


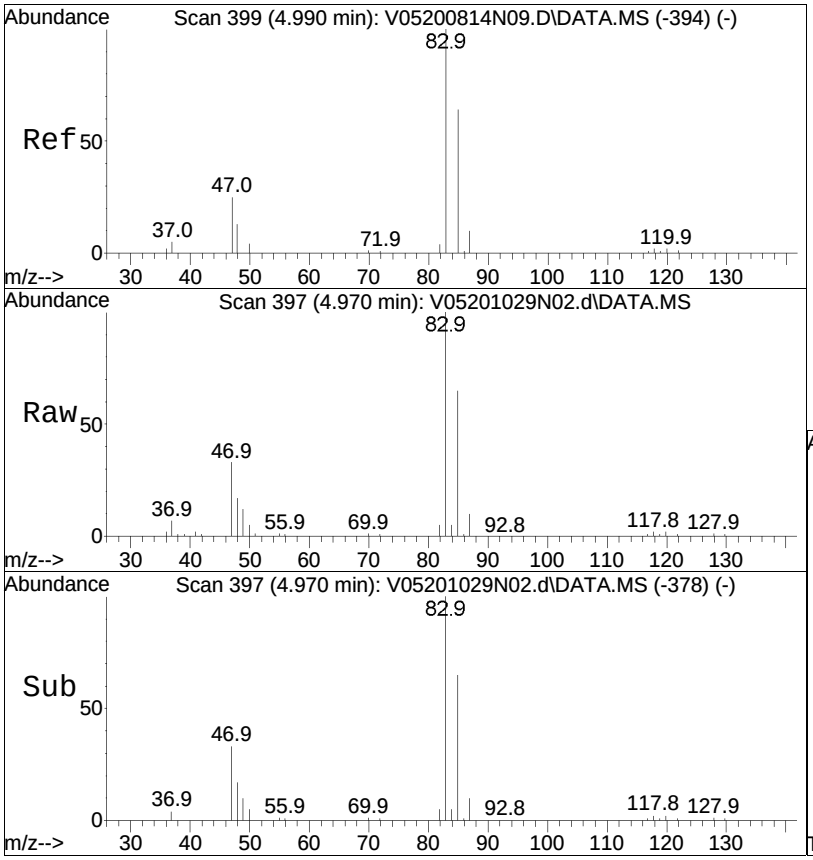


#28
cis-1,2-Dichloroethene
Concen: 9.51 ug/L
RT: 4.716 min Scan# 371
Delta R.T. -0.010 min
Lab File: V05201029N02.d
Acq: 29 Oct 2020 5:39 pm

Tgt Ion: 96 Resp: 77581

Ion	Ratio	Lower	Upper
96	100		
61	138.0	100.5	150.7
98	61.2	49.8	74.8

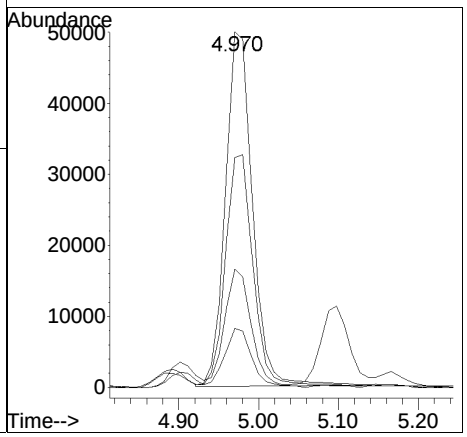


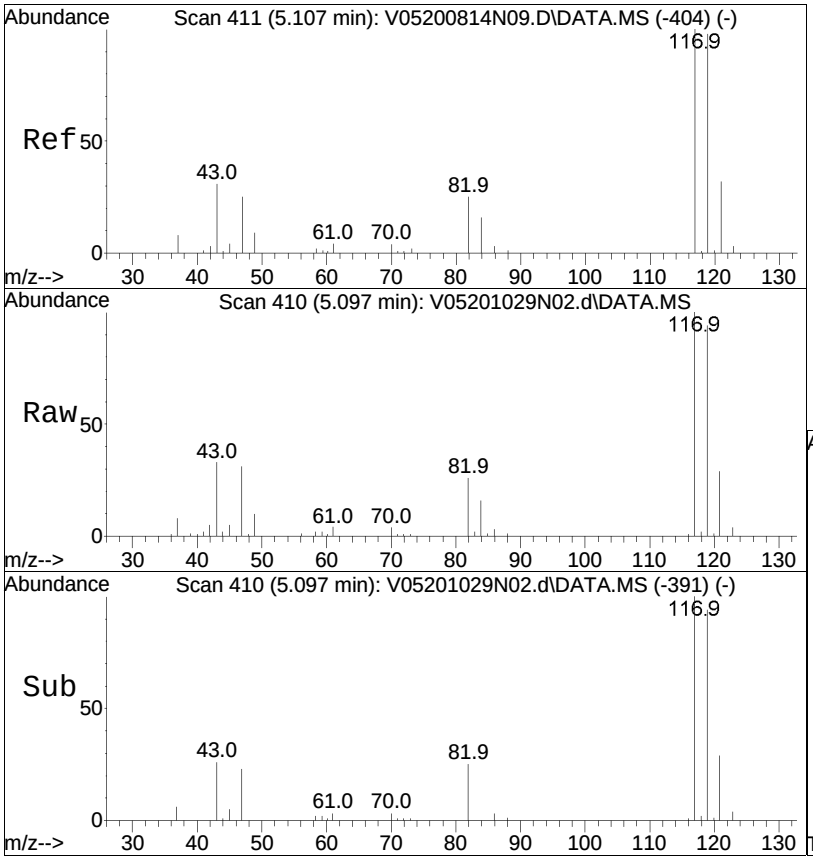


#32
Chloroform
Concen: 8.85 ug/L
RT: 4.970 min Scan# 397
Delta R.T. -0.010 min
Lab File: V05201029N02.d
Acq: 29 Oct 2020 5:39 pm

Tgt Ion: 83 Resp: 117961

Ion	Ratio	Lower	Upper
83	100		
85	66.6	42.8	89.0
47	31.0	13.7	28.4#
48	16.8	6.9	14.3#

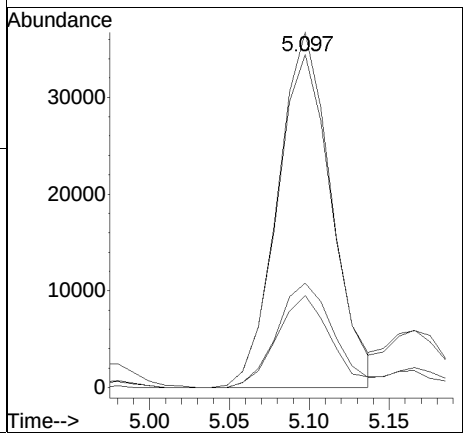


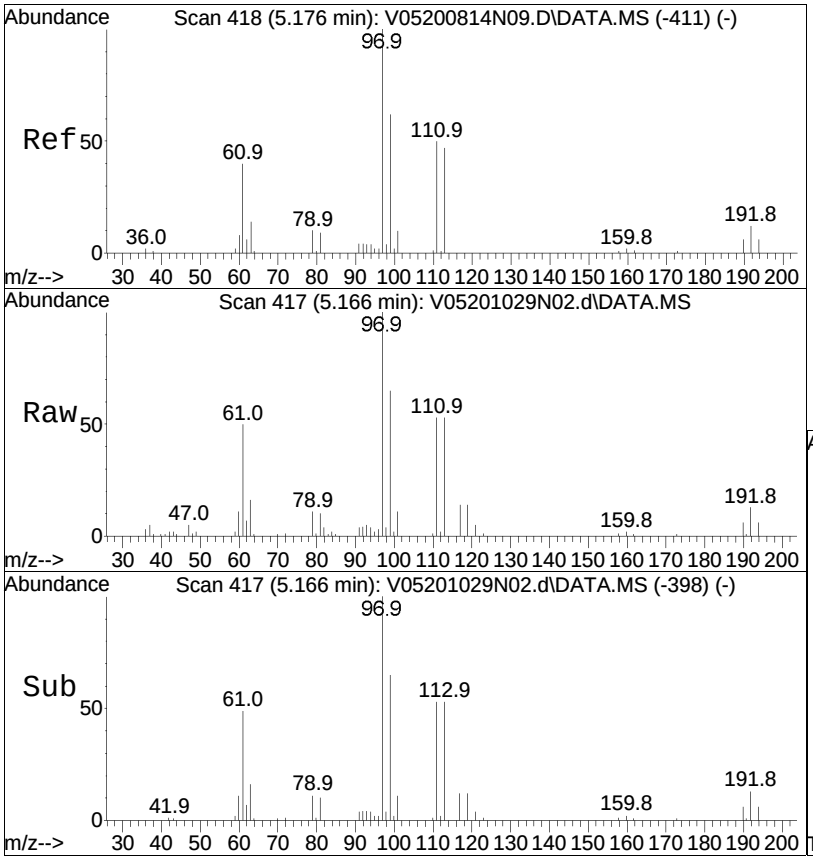


#34
Carbon tetrachloride
Concen: 8.42 ug/L
RT: 5.097 min Scan# 410
Delta R.T. -0.010 min
Lab File: V05201029N02.d
Acq: 29 Oct 2020 5:39 pm

Tgt Ion:117 Resp: 85942

Ion	Ratio	Lower	Upper
117	100		
119	96.2	63.6	132.2
121	31.3	19.8	41.0
82	26.0	15.9	32.9

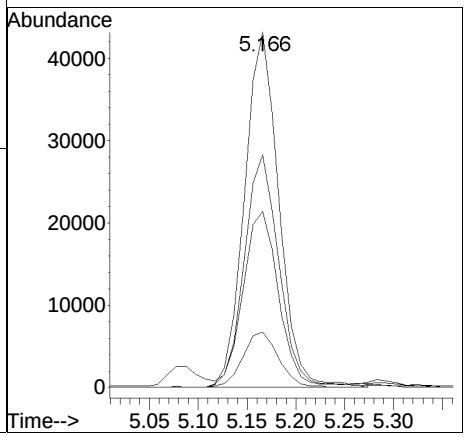


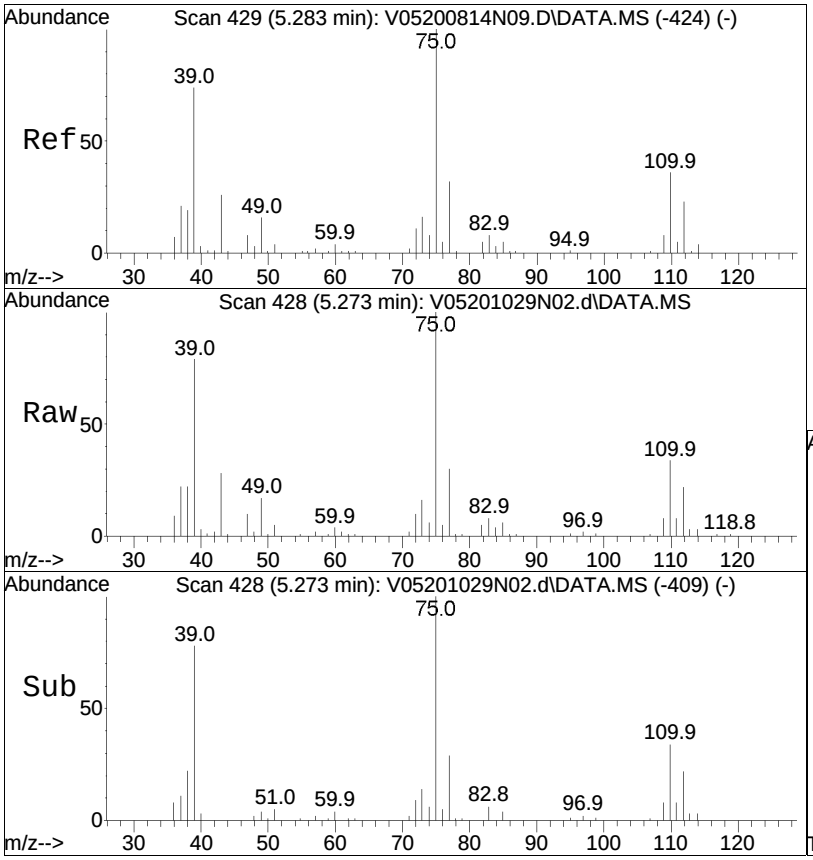


#37
1,1,1-Trichloroethane
Concen: 8.58 ug/L
RT: 5.166 min Scan# 417
Delta R.T. -0.010 min
Lab File: V05201029N02.d
Acq: 29 Oct 2020 5:39 pm

Tgt Ion: 97 Resp: 106010

Ion	Ratio	Lower	Upper
97	100		
99	66.0	41.7	86.5
61	50.3	26.1	54.3
63	16.2	8.5	17.6

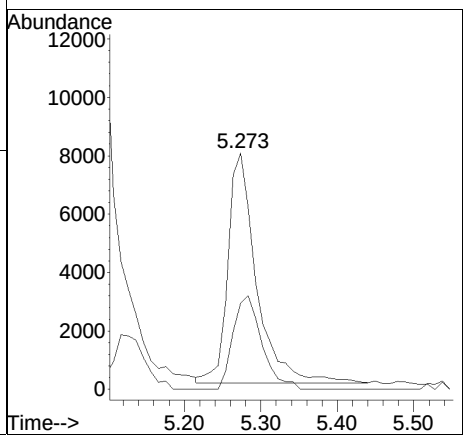


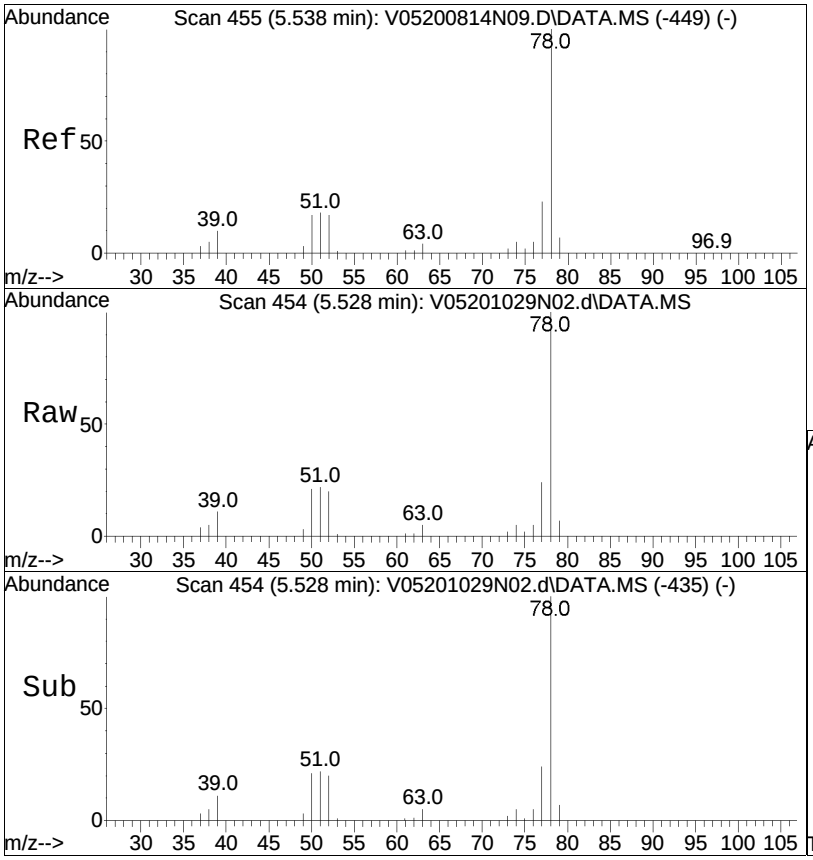


#39
2-Butanone
Concen: 8.17 ug/L
RT: 5.273 min Scan# 428
Delta R.T. -0.010 min
Lab File: V05201029N02.d
Acq: 29 Oct 2020 5:39 pm

Tgt Ion: 43 Resp: 20463

Ion	Ratio	Lower	Upper
43	100		
72	41.1	55.6	83.4#

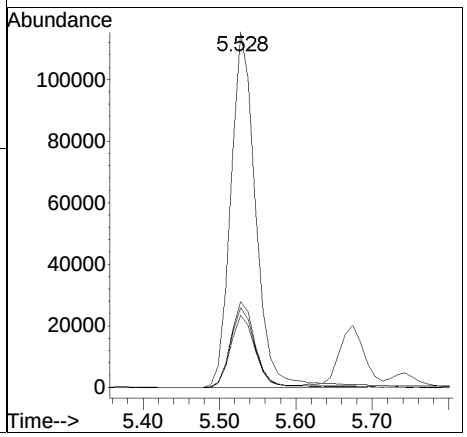


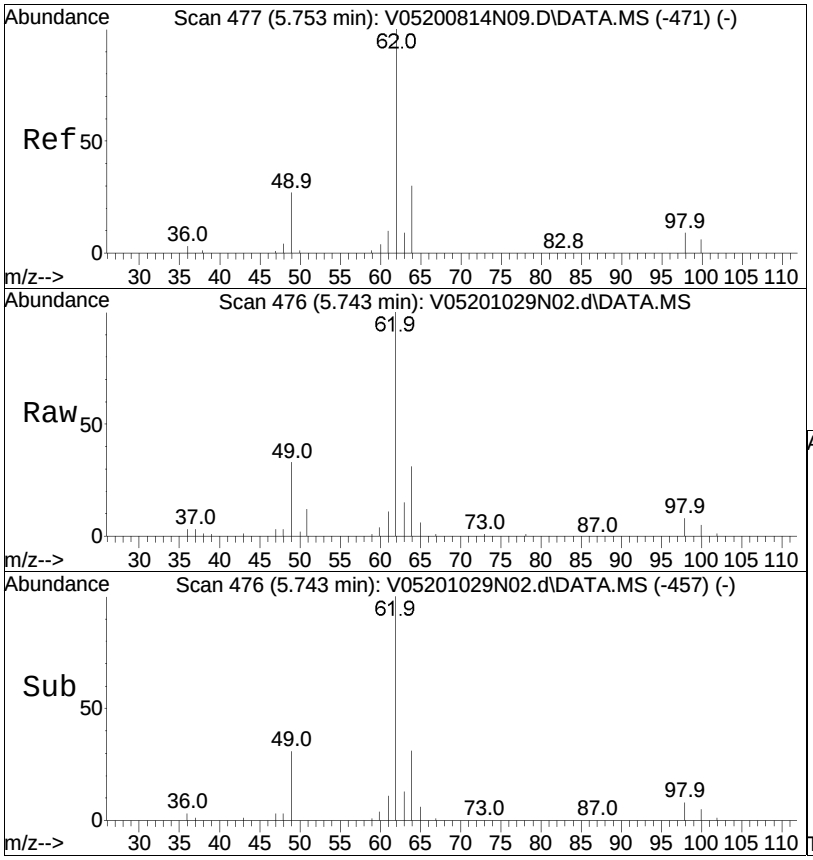


#41
Benzene
Concen: 9.57 ug/L
RT: 5.528 min Scan# 454
Delta R.T. -0.010 min
Lab File: V05201029N02.d
Acq: 29 Oct 2020 5:39 pm

Tgt Ion: 78 Resp: 263091

Ion	Ratio	Lower	Upper
78	100		
77	24.0	15.2	31.6
51	21.7	10.5	21.7#
52	19.9	9.5	19.7#

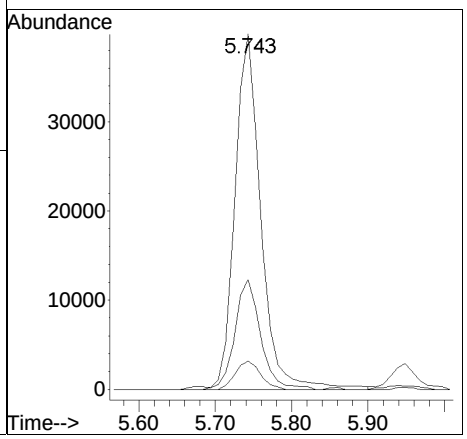


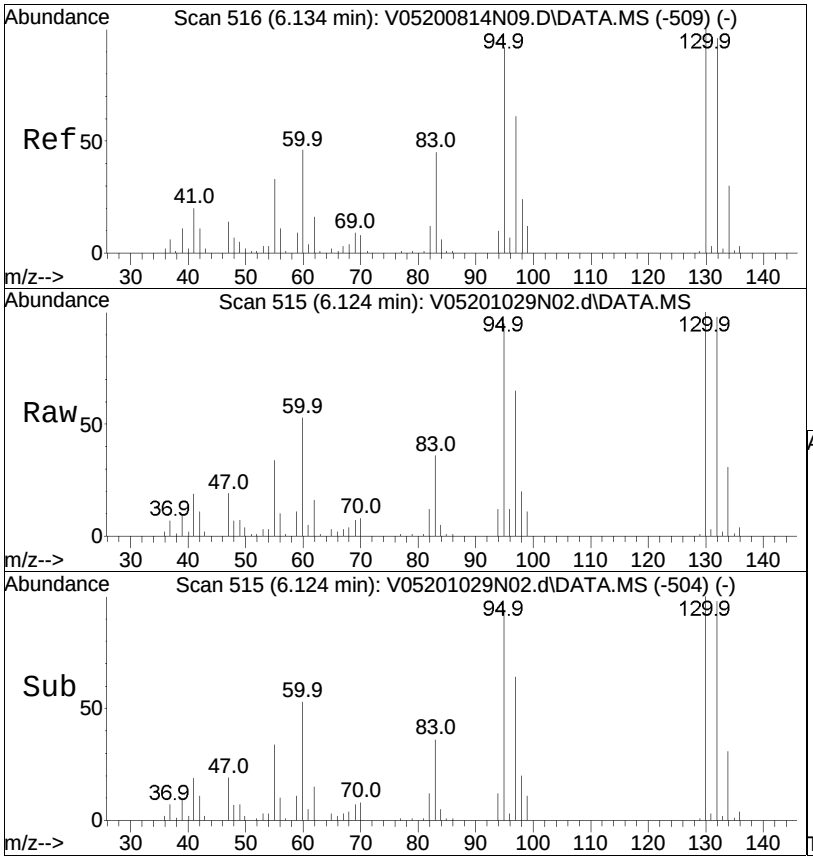


#44
1,2-Dichloroethane
Concen: 9.12 ug/L
RT: 5.743 min Scan# 476
Delta R.T. -0.010 min
Lab File: V05201029N02.d
Acq: 29 Oct 2020 5:39 pm

Tgt Ion: 62 Resp: 93893

Ion	Ratio	Lower	Upper
62	100		
64	31.1	13.2	53.2
98	7.7	0.0	27.8

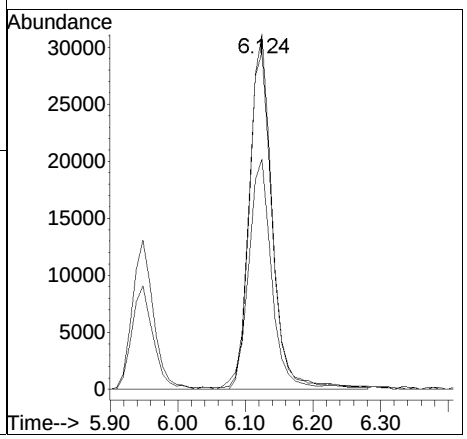


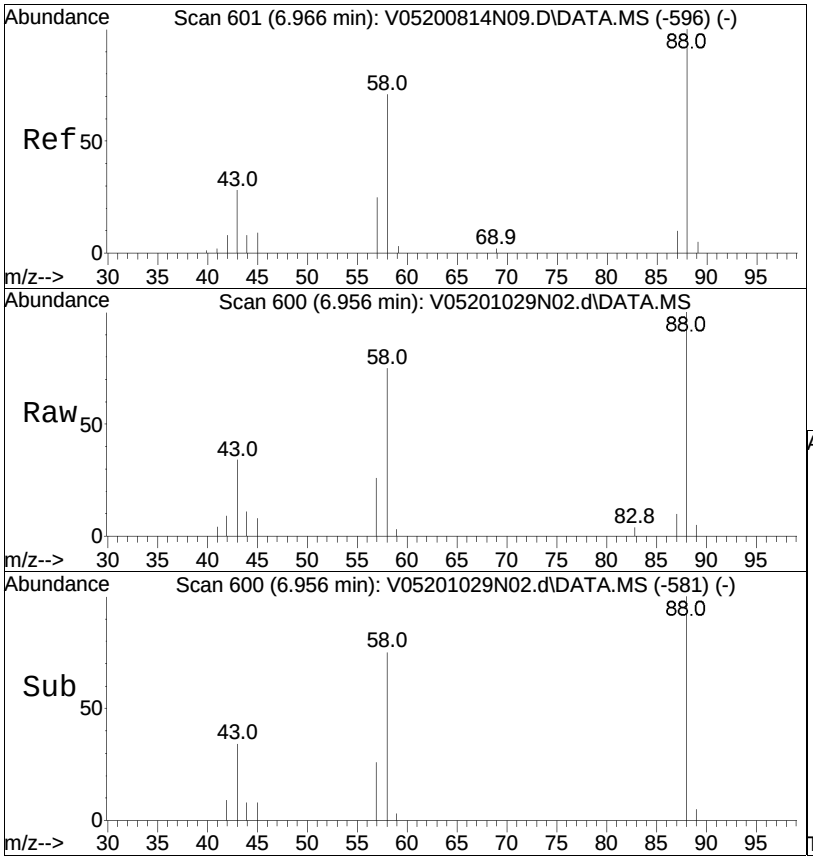


#48
Trichloroethene
Concen: 8.95 ug/L
RT: 6.124 min Scan# 515
Delta R.T. -0.010 min
Lab File: V05201029N02.d
Acq: 29 Oct 2020 5:39 pm

Tgt Ion: 95 Resp: 71995

Ion	Ratio	Lower	Upper
95	100		
97	66.8	56.1	84.1
130	98.5	77.7	116.5

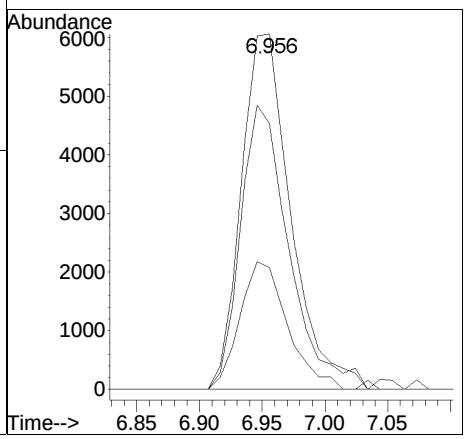


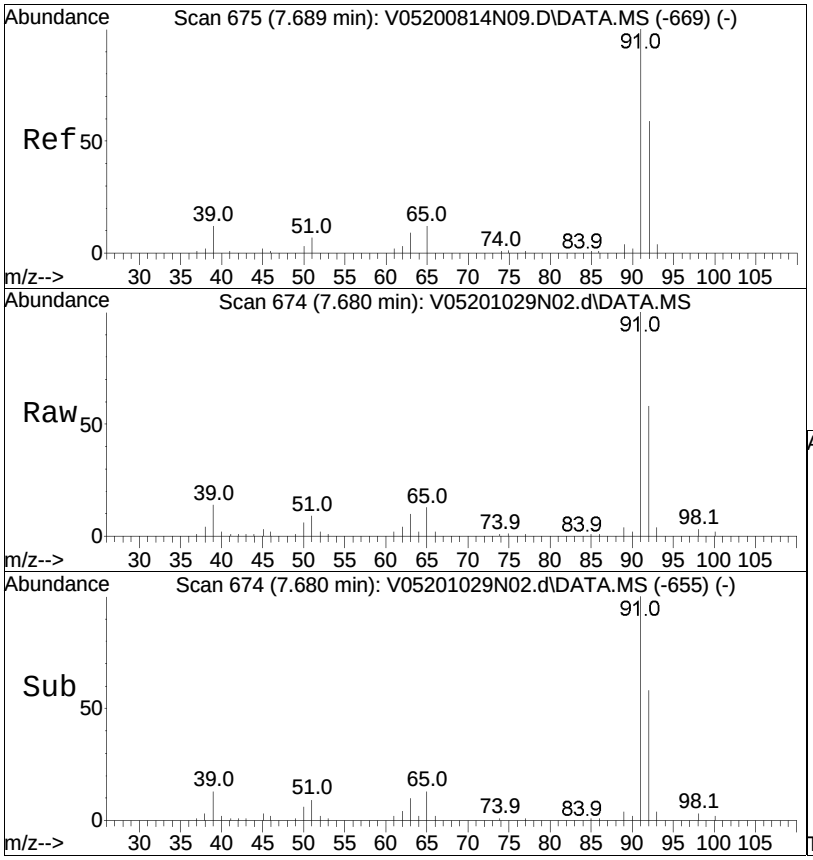


#57
1,4-Dioxane
Concen: 336.62 ug/L
RT: 6.956 min Scan# 600
Delta R.T. -0.010 min
Lab File: V05201029N02.d
Acq: 29 Oct 2020 5:39 pm

Tgt Ion: 88 Resp: 16683

Ion	Ratio	Lower	Upper
88	100		
58	78.3	50.6	75.8#
43	34.6	20.5	30.7#

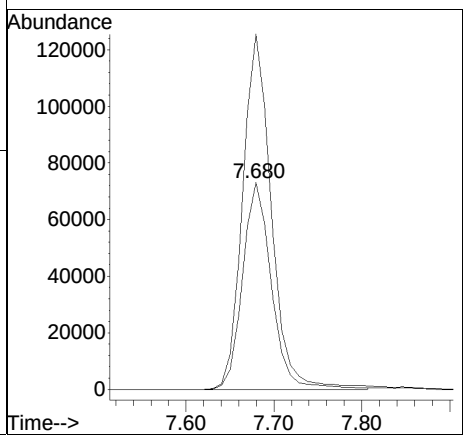


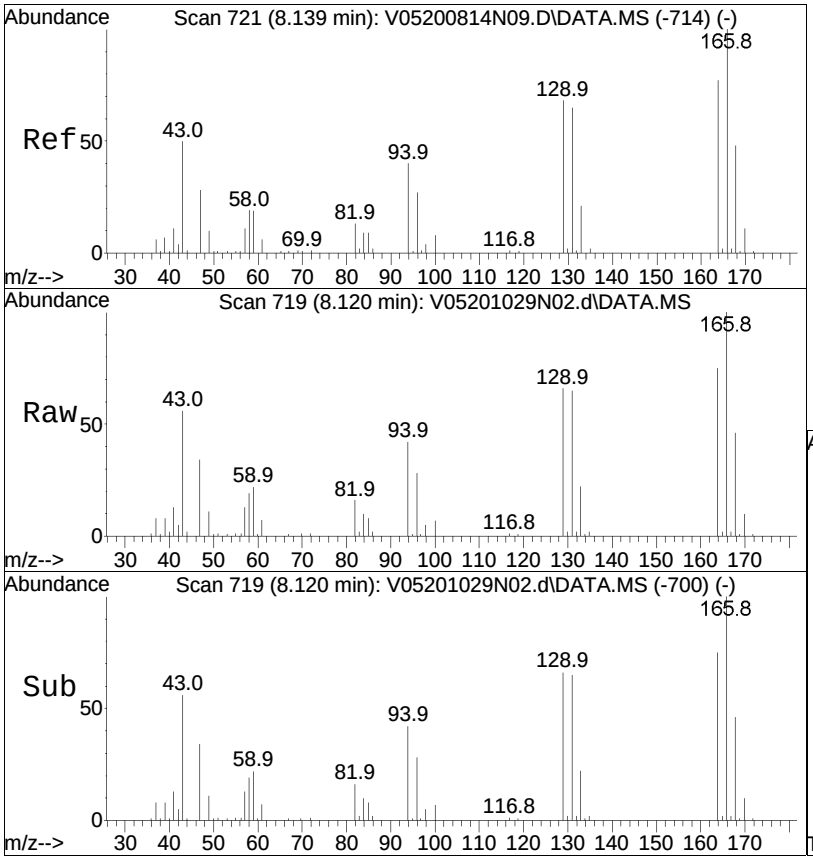


#61
Toluene
Concen: 9.33 ug/L
RT: 7.680 min Scan# 674
Delta R.T. -0.010 min
Lab File: V05201029N02.d
Acq: 29 Oct 2020 5:39 pm

Tgt Ion: 92 Resp: 167209

Ion	Ratio	Lower	Upper
92	100		
91	171.6	135.2	202.8

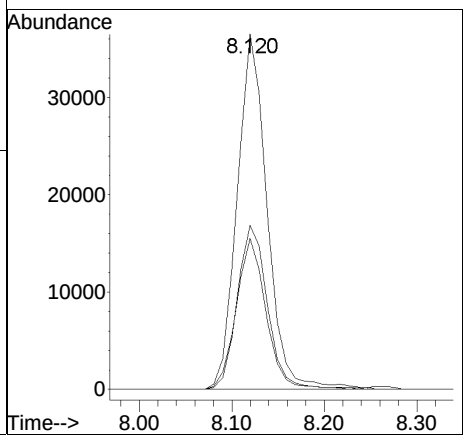


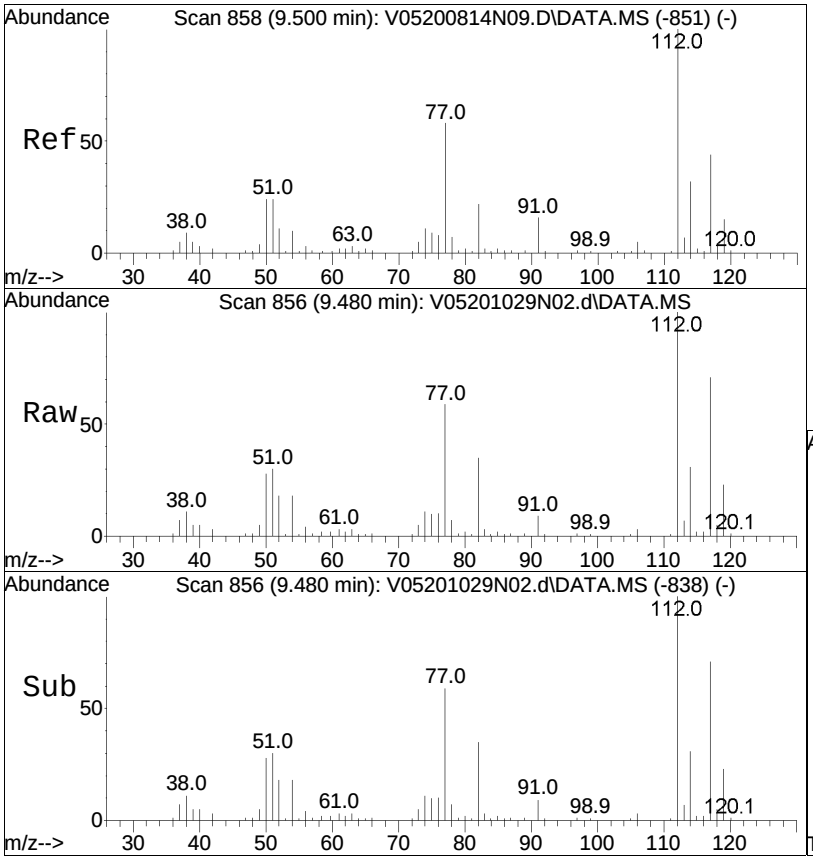


#63
Tetrachloroethene
Concen: 9.70 ug/L
RT: 8.120 min Scan# 719
Delta R.T. -0.010 min
Lab File: V05201029N02.d
Acq: 29 Oct 2020 5:39 pm

Tgt Ion:166 Resp: 82516

Ion	Ratio	Lower	Upper
166	100		
168	46.8	30.2	70.2
94	42.1	32.5	72.5

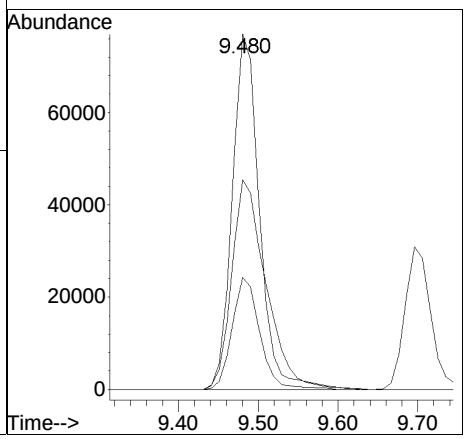


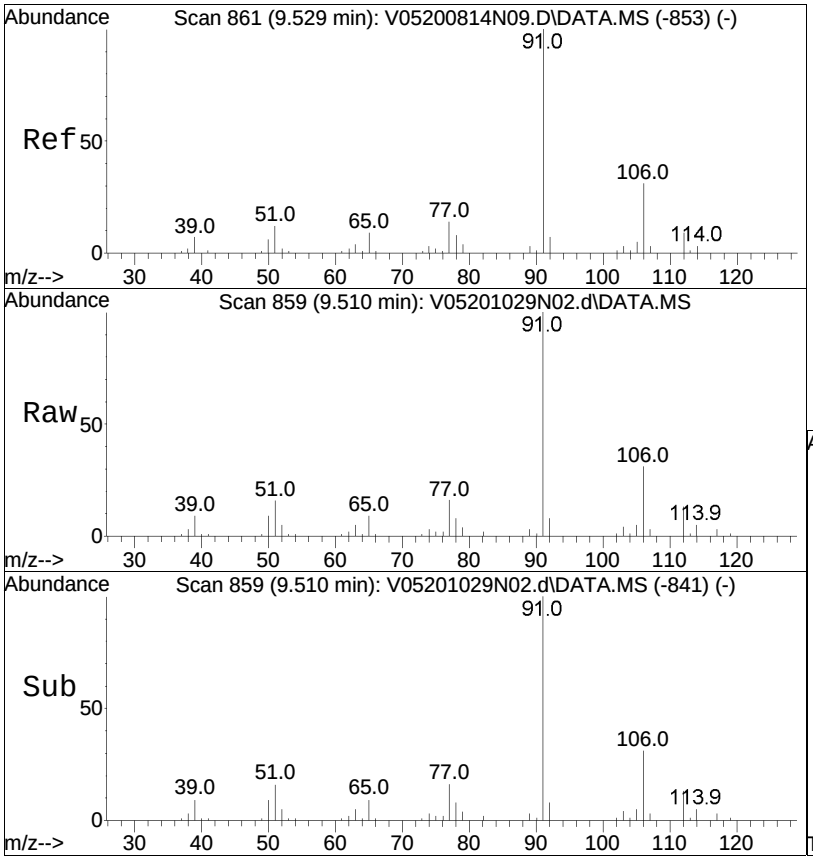


#73
Chlorobenzene
Concen: 9.06 ug/L
RT: 9.480 min Scan# 856
Delta R.T. -0.020 min
Lab File: V05201029N02.d
Acq: 29 Oct 2020 5:39 pm

Tgt Ion:112 Resp: 182826

Ion	Ratio	Lower	Upper
112	100		
77	74.0	66.1	99.1
114	32.0	25.4	38.0

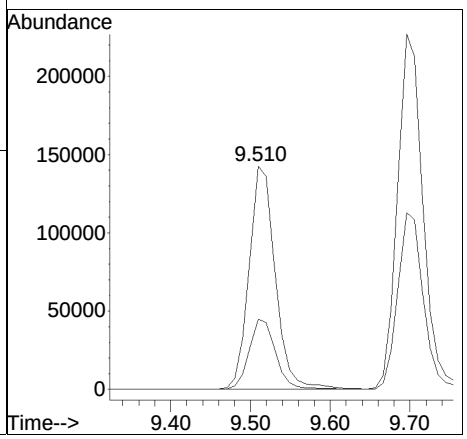


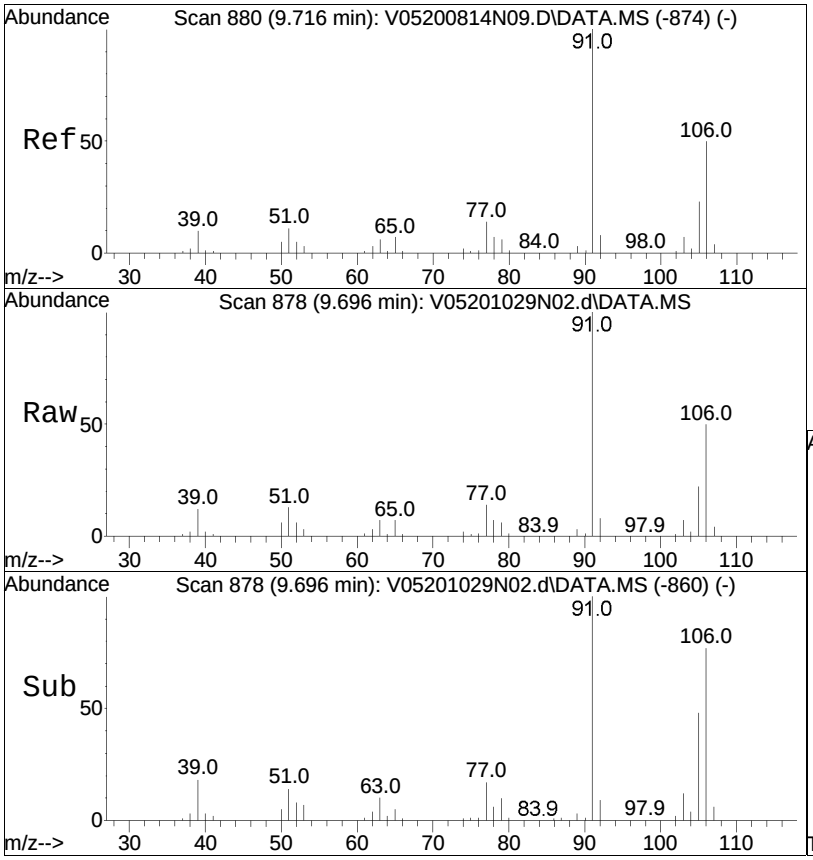


#74
Ethylbenzene
Concen: 9.18 ug/L
RT: 9.510 min Scan# 859
Delta R.T. -0.019 min
Lab File: V05201029N02.d
Acq: 29 Oct 2020 5:39 pm

Tgt Ion: 91 Resp: 327599

Ion	Ratio	Lower	Upper
91	100		
106	31.6	22.9	34.3

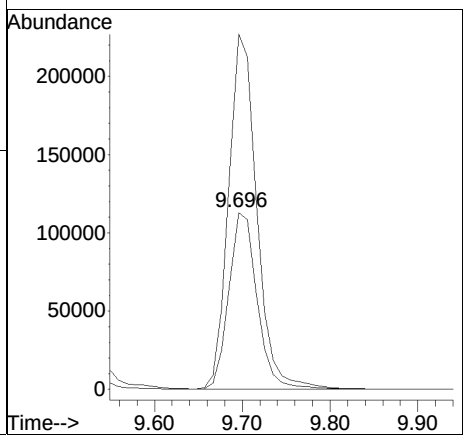


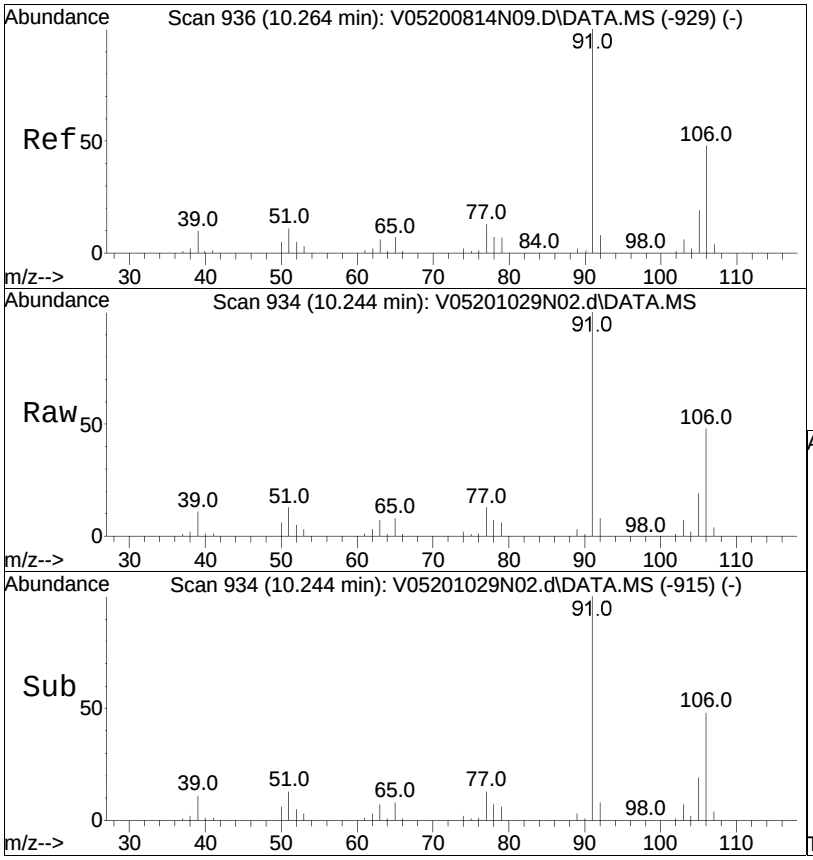


#76
p/m Xylene
Concen: 18.23 ug/L
RT: 9.696 min Scan# 878
Delta R.T. -0.020 min
Lab File: V05201029N02.d
Acq: 29 Oct 2020 5:39 pm

Tgt Ion:106 Resp: 255045

Ion	Ratio	Lower	Upper
106	100		
91	198.6	177.2	265.8

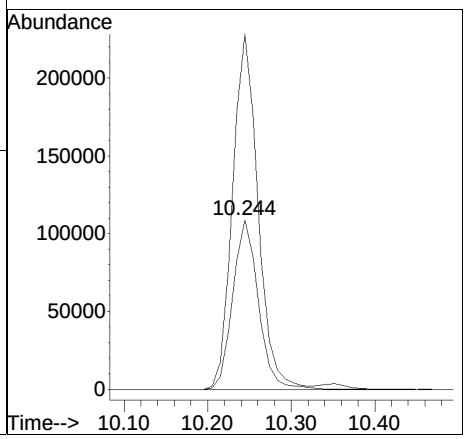


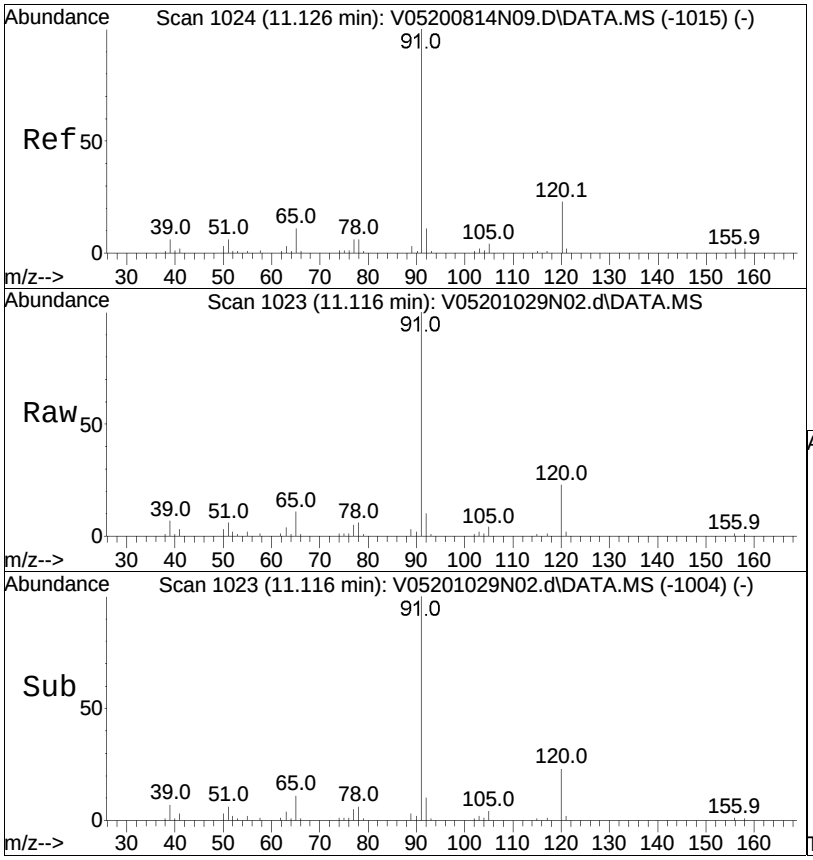


#77
o Xylene
Concen: 18.32 ug/L
RT: 10.244 min Scan# 934
Delta R.T. -0.010 min
Lab File: V05201029N02.d
Acq: 29 Oct 2020 5:39 pm

Tgt Ion:106 Resp: 232285

Ion	Ratio	Lower	Upper
106	100		
91	207.5	187.0	280.6

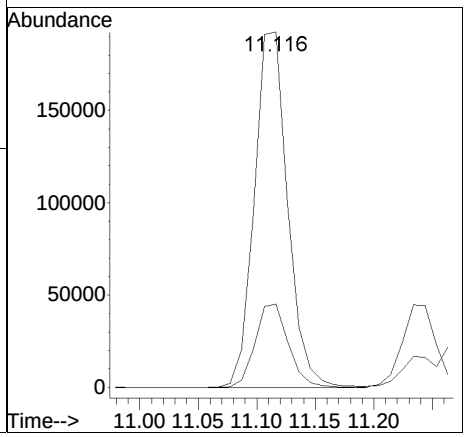


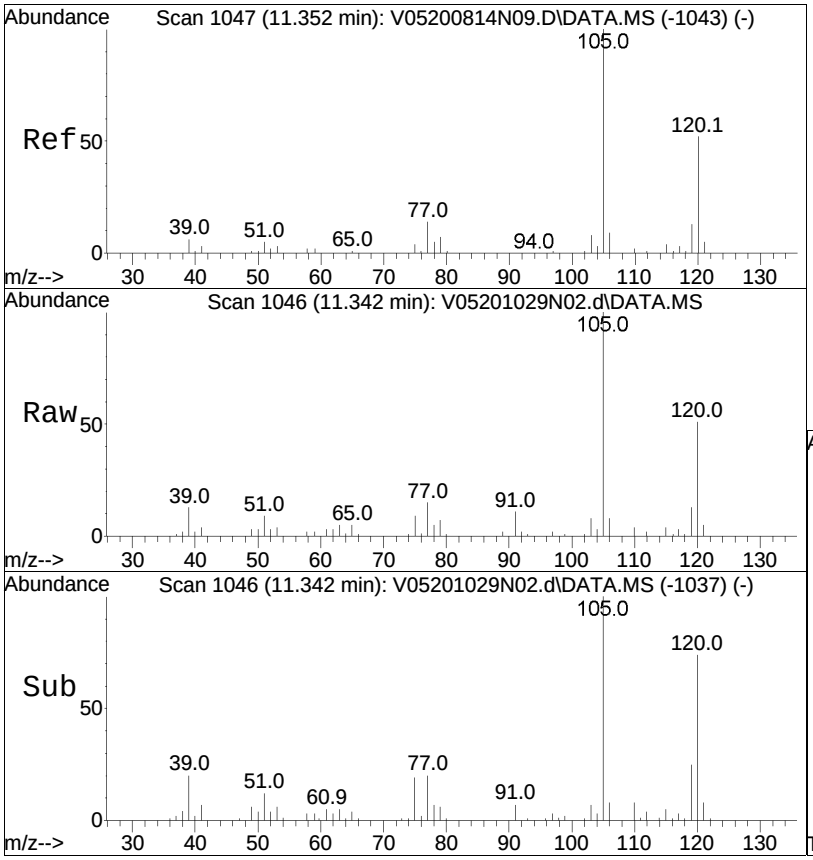


#85
n-Propylbenzene
Concen: 9.41 ug/L
RT: 11.116 min Scan# 1023
Delta R.T. -0.010 min
Lab File: V05201029N02.d
Acq: 29 Oct 2020 5:39 pm

Tgt Ion: 91 Resp: 381120

Ion	Ratio	Lower	Upper
91	100		
120	23.3	17.3	25.9

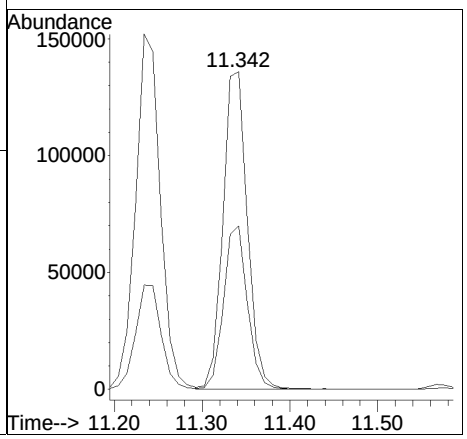


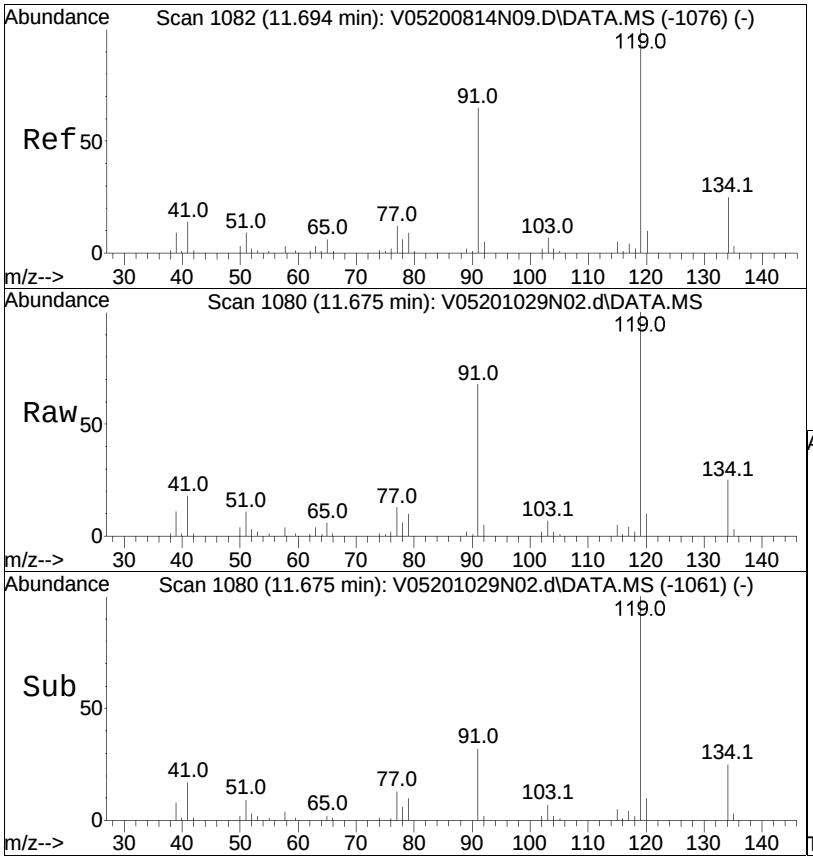


#90
1,3,5-Trimethylbenzene
Concen: 9.36 ug/L
RT: 11.342 min Scan# 1046
Delta R.T. -0.010 min
Lab File: V05201029N02.d
Acq: 29 Oct 2020 5:39 pm

Tgt Ion:105 Resp: 263655

Ion	Ratio	Lower	Upper
105	100		
120	50.2	37.0	55.6

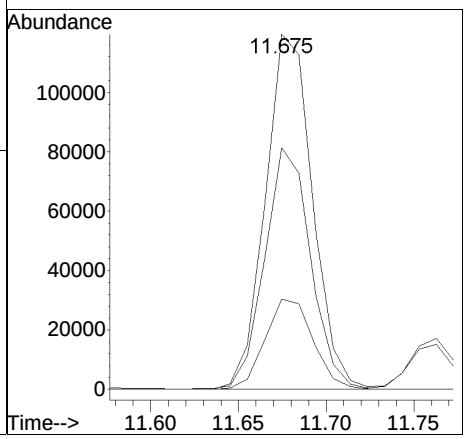


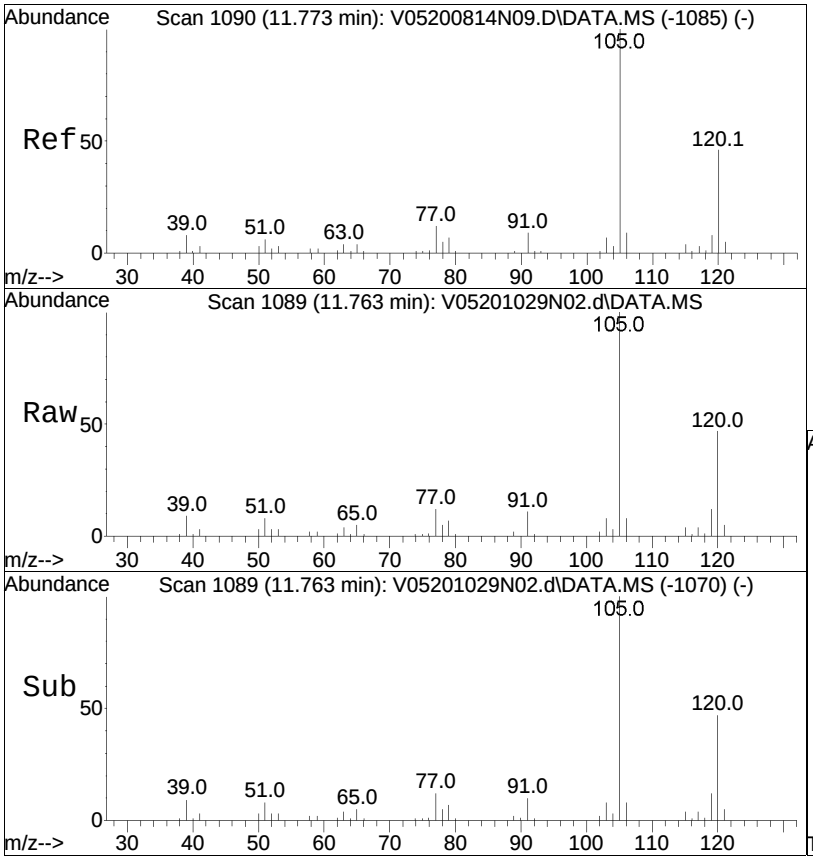


#94
tert-Butylbenzene
Concen: 8.96 ug/L
RT: 11.675 min Scan# 1080
Delta R.T. -0.010 min
Lab File: V05201029N02.d
Acq: 29 Oct 2020 5:39 pm

Tgt Ion:119 Resp: 223735

Ion	Ratio	Lower	Upper
119	100		
91	65.9	49.2	73.8
134	25.9	18.3	27.5

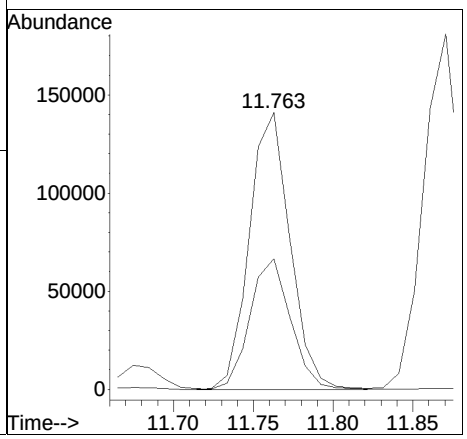


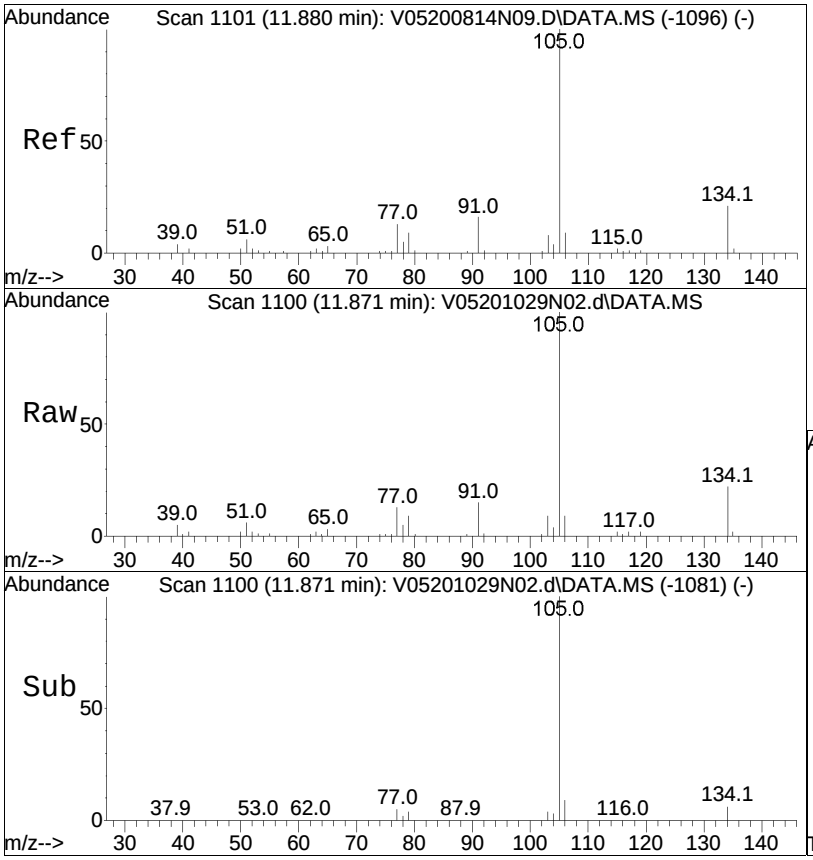


#97
1,2,4-Trimethylbenzene
Concen: 9.32 ug/L
RT: 11.763 min Scan# 1089
Delta R.T. -0.010 min
Lab File: V05201029N02.d
Acq: 29 Oct 2020 5:39 pm

Tgt Ion:105 Resp: 250916

Ion	Ratio	Lower	Upper
105	100		
120	46.8	34.4	51.6

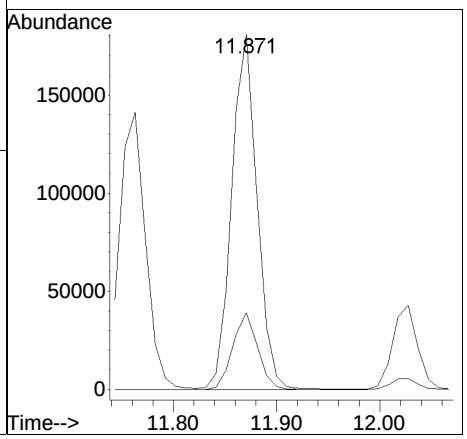


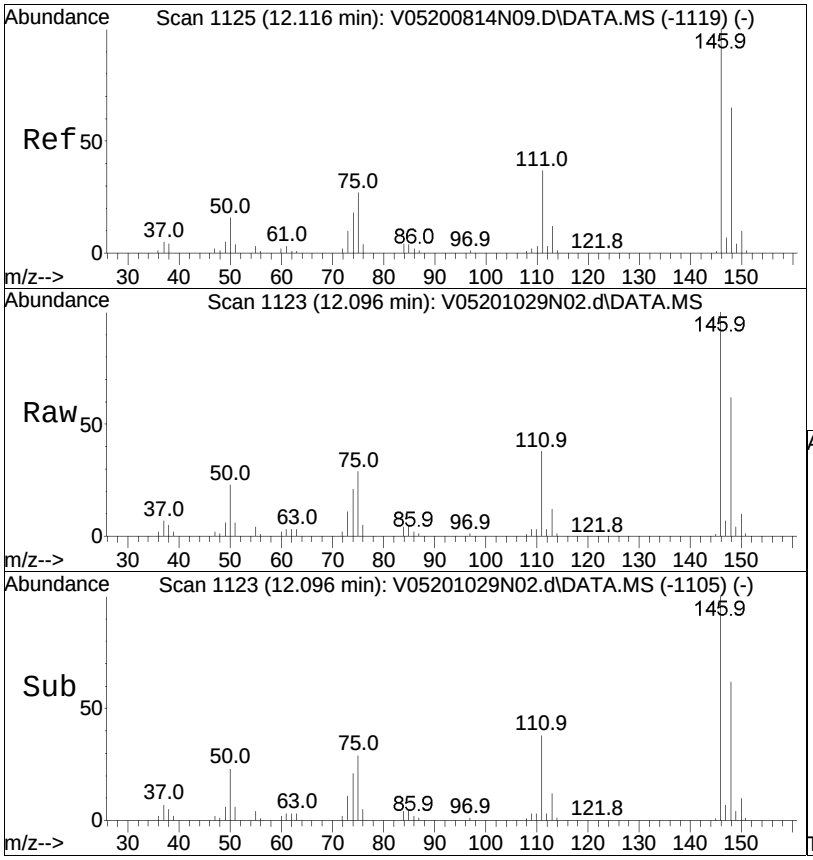


#98
sec-Butylbenzene
Concen: 9.20 ug/L
RT: 11.871 min Scan# 1100
Delta R.T. -0.010 min
Lab File: V05201029N02.d
Acq: 29 Oct 2020 5:39 pm

Tgt Ion:105 Resp: 310028

Ion	Ratio	Lower	Upper
105	100		
134	21.0	12.9	26.9

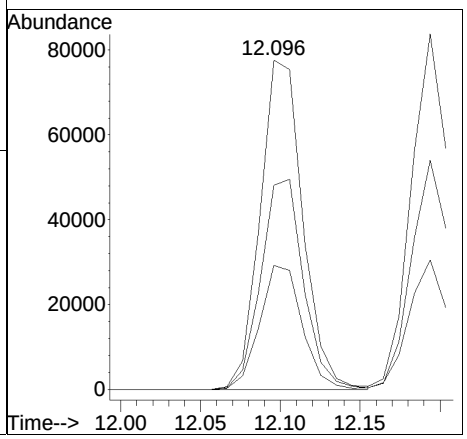


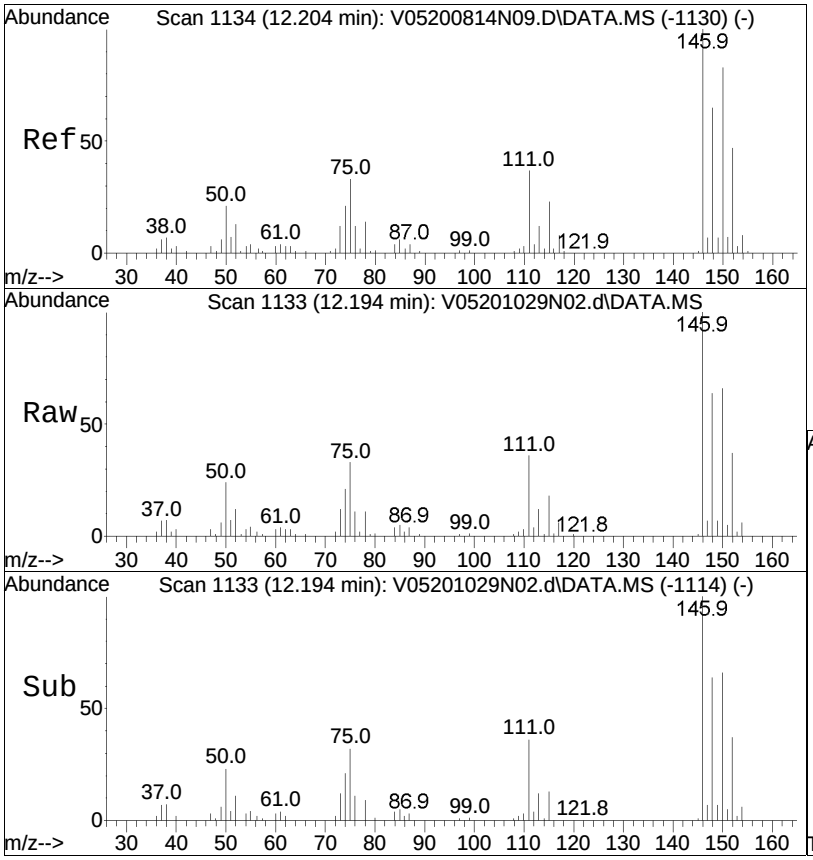


#100
1,3-Dichlorobenzene
Concen: 9.49 ug/L
RT: 12.096 min Scan# 1123
Delta R.T. -0.020 min
Lab File: V05201029N02.d
Acq: 29 Oct 2020 5:39 pm

Tgt Ion:146 Resp: 144348

Ion	Ratio	Lower	Upper
146	100		
111	37.5	28.0	58.1
148	64.0	41.6	86.4

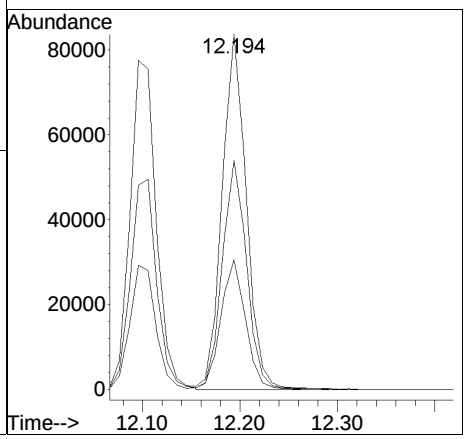


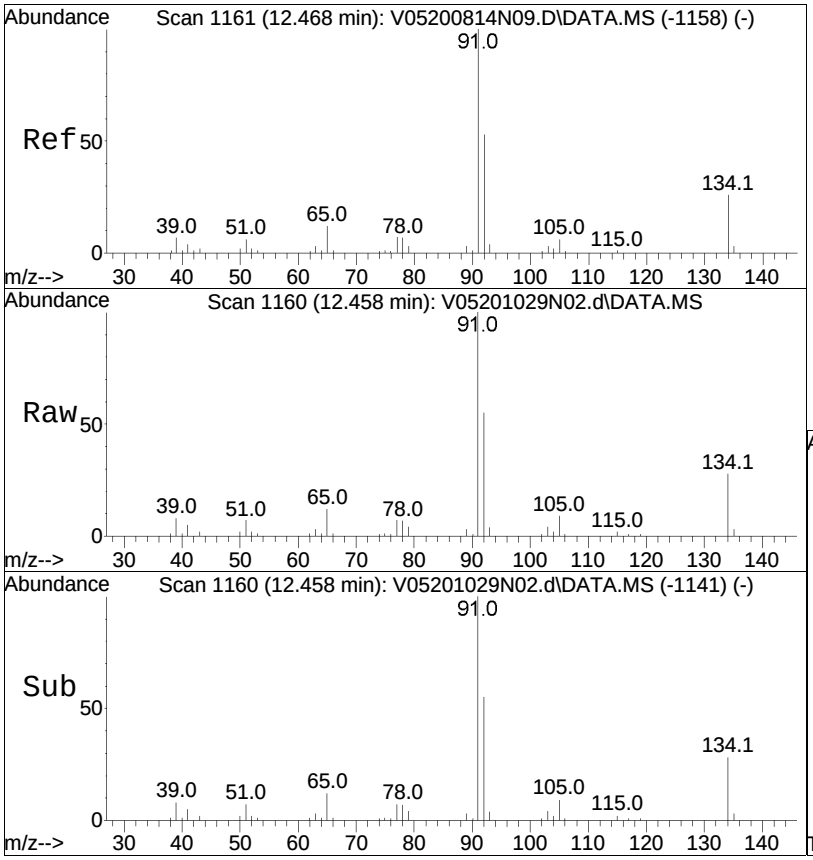


#101
1,4-Dichlorobenzene
Concen: 9.42 ug/L
RT: 12.194 min Scan# 1133
Delta R.T. -0.010 min
Lab File: V05201029N02.d
Acq: 29 Oct 2020 5:39 pm

Tgt Ion:146 Resp: 144319

Ion	Ratio	Lower	Upper
146	100		
111	37.4	33.8	50.6
148	65.0	51.0	76.6

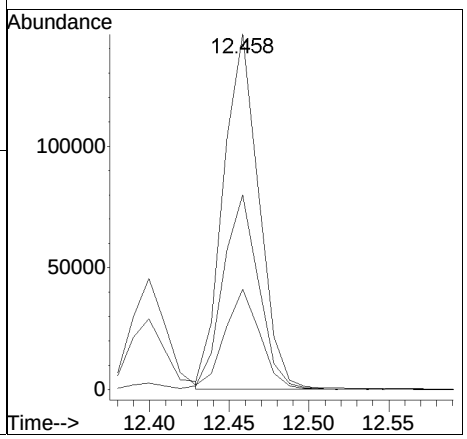


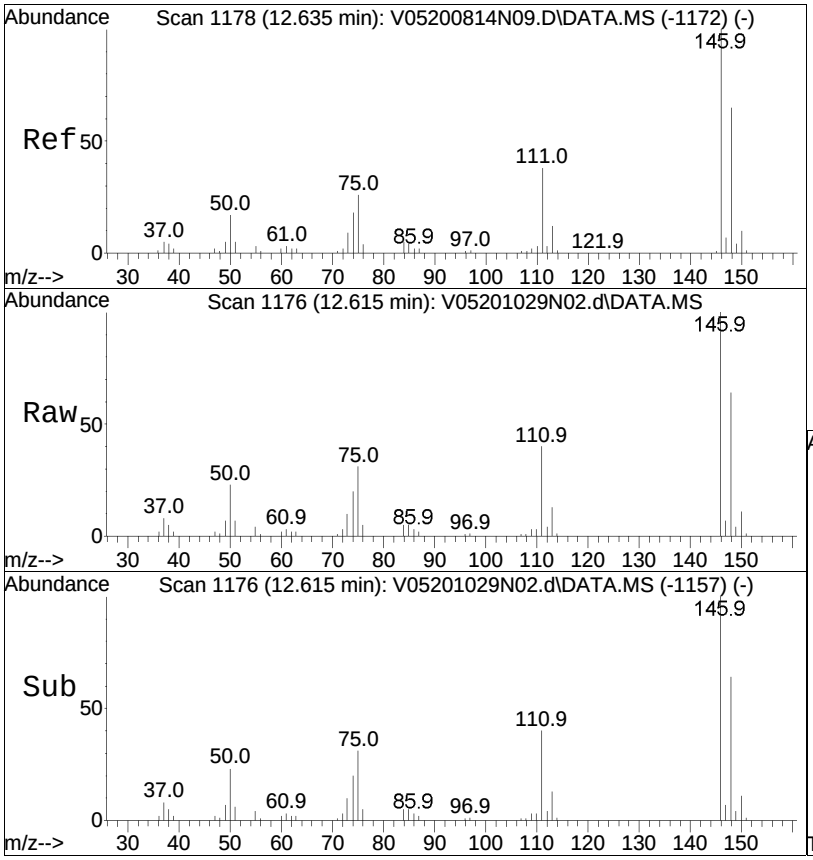


#103
n-Butylbenzene
Concen: 8.48 ug/L
RT: 12.458 min Scan# 1160
Delta R.T. -0.010 min
Lab File: V05201029N02.d
Acq: 29 Oct 2020 5:39 pm

Tgt Ion: 91 Resp: 226700

Ion	Ratio	Lower	Upper
91	100		
92	55.3	44.2	66.2
134	27.8	20.2	30.2

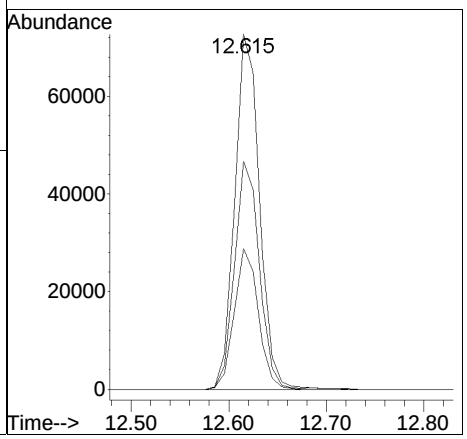




#104
1,2-Dichlorobenzene
Concen: 9.51 ug/L
RT: 12.615 min Scan# 1176
Delta R.T. -0.010 min
Lab File: V05201029N02.d
Acq: 29 Oct 2020 5:39 pm

Tgt Ion:146 Resp: 128375

Ion	Ratio	Lower	Upper
146	100		
111	38.6	29.1	60.5
148	64.6	41.7	86.7



Calculation of Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * Uf * (1/Vo)

Where:
DF = Dilution Factor
Vo = Sample Volume Purged (mL)
Uf = ng Unit Correction Factor (mL)

Soil Concentration Formula: Amt * DF * (1/Wt)

Where:
DF = Dilution Factor
Wt = Weight of Sample (g)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jan 05 2021, 02:52 pm

Work Group: WG1428076 for Department: 31 GC/MS - Volatiles

Created: 29-OCT-20 Due: Operator: PD

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2046167-04	MW-5	S	NYTCL-8260-R2	WATER	DONE	U	1106	1030	S0	Vial-B
L2046790-01	MW-1	S	NYTCL-8260	WATER	DONE	U	1110	1030	1C	Vial-B
WG1428076-1	MS BFB Tune Standard	S	NYTCL-8260	WATER	DONE	U				
WG1428076-1	MS BFB Tune Standard	S	NYTCL-8260-R2	WATER	DONE	U				
WG1428076-2	Continuing Calibrati	S	NYTCL-8260	WATER	DONE	U				
WG1428076-2	Continuing Calibrati	S	NYTCL-8260-R2	WATER	DONE	U				
WG1428076-3	Laboratory Control S	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1428076-3	Laboratory Control S	S	NYTCL-8260	WATER	DONE	U				
WG1428076-4	LCS Duplicate	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1428076-4	LCS Duplicate	S	NYTCL-8260	WATER	DONE	U				
WG1428076-5	Laboratory Method Bl	S	NYTCL-8260	WATER	DONE	U				
WG1428076-5	Laboratory Method Bl	S	NYTCL-8260-R2	WATER	DACQ	U				

Comments:

WG1428076-4 WG1428076-3

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jan 05 2021, 02:52 pm

Work Group: WG1428085 for Department: 31 GC/MS - Volatiles

Created: 29-OCT-20 Due: Operator: PD

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2046790-02	MW-2	S	NYTCL-8260	WATER	DONE	U	1110	1030	1C	Vial-B
L2046790-04	TWP-1	S	NYTCL-8260	WATER	DONE	U	1110	1030	1C	Vial-B
L2047162-01	GW-1	S	NYTCL-8260	WATER	DONE	U	1111	1102	1C	Vial-B
L2047162-02	GW-2	S	NYTCL-8260	WATER	DONE	U	1111	1102	1C	Vial-B
L2047162-03	GW-3	S	NYTCL-8260	WATER	DONE	U	1111	1102	1C	Vial-B
WG1428085-1	MS BFB Tune Standard	S	NYTCL-8260	WATER	DONE	U				
WG1428085-2	Continuing Calibrati	S	NYTCL-8260	WATER	DONE	U				
WG1428085-3	Laboratory Control S	S	NYTCL-8260	WATER	DONE	U				
WG1428085-4	LCS Duplicate	S	NYTCL-8260	WATER	DONE	U				
WG1428085-5	Laboratory Method Bl	S	NYTCL-8260	WATER	DONE	U				

Comments:

WG1428085-4 WG1428085-3

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jan 05 2021, 02:52 pm

Work Group: WG1428497 for Department: 31 GC/MS - Volatiles

Created: 30-OCT-20 Due: Operator: PD

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2046790-03	MW-3	S	NYTCL-8260	WATER	DONE	U	1110	1030	1C	Vial-B
WG1428497-1	MS BFB Tune Standard	S	NYTCL-8260	WATER	DONE	U				
WG1428497-2	Continuing Calibrati	S	NYTCL-8260	WATER	DONE	U				
WG1428497-3	Laboratory Control S	S	NYTCL-8260	WATER	DONE	U				
WG1428497-4	LCS Duplicate	S	NYTCL-8260	WATER	DONE	U				
WG1428497-5	Laboratory Method Bl	S	NYTCL-8260	WATER	DONE	U				

Comments:

WG1428497-4 WG1428497-3

RUSH	HT	PRI

Method

Inst: VOA105 BFB: V7999 GC: 8260

Initials: MKS IS/SS: V8042 Autosampler: 8260water10ml

Date: **09/30/20** ICAL: V8051,V8018F Concentrator: 8260

Run: **N** ICV: V8052,V8053,V7988,V7979,V8015,V8024 QC:_____ Seq:_____

Vial	Data File	Sample	pH<2
1	V05200930NBF1	BFB TUNE	
1	V05200930N01	BLK	
2	V05200930N02	BLK	
3	V05200930N03	I8260STDL0.19PPB	
4	V05200930N04	I8260STDL0.19PPB	
5	V05200930N05	I8260STDL0.5PPB	
6	V05200930N06	I8260STDL0.5PPB	
7	V05200930N07	I8260STDL2PPB	
8	V05200930N08	I8260STDL2PPB	
9	V05200930N09	I8260STDL10PPB	
10	V05200930N10	I8260STDL30PPB	
11	V05200930N11	I8260STDL80PPB	
12	V05200930N12	I8260STDL120PPB	
13	V05200930N13	I8260STDL200PPB	
14	V05200930N14	BLK	
15	V05200930N15	BLK	
16	V05200930N16	BLK	
17	V05200930N17	BLK	
18	V05200930N18	C8260STDL10PPB	
19	V05200930N19	C8260STDL10PPB	
20	V05200930N20	BLK	
21	V05200930N21	BLK	
22	V05200930N22	8260 MDL 0.2PPB	
1	V05201001ABF1	BFB TUNE	
2	V05201001A01	BLK	
3	V05201001A02	C8260STDL10PPB	
4	V05201001A03	C8260STDL10PPB	
5	V05201001A04	BLK	
6	V05201001A05	BLK	

RUSH	HT	PRI

Inst: VOA108
Initials: PD/MKS
Date **10/13/20**
Run **A**

BFB: V7999
IS/SS: V8068
ICAL: V8055C, V8061,V8077
ICV: V8052,V8053,V8072,V8059,V8071,V8024,V8076

Method
GC: 8260-ATOMX
Autosampler: 8260
Concentrator: 8260

QC: _____ Seq: _____

Vial	Data File	Sample	pH<2
1	V08201013ABF1	BFB TUNE	
2	V08201013ABF2	BFB TUNE	
3	V08201013ABF3	BFB TUNE	
1	V08201013A01	BLK1	
2	V08201013A02	BLK2	
3	V08201013A03	BLK3	
4	V08201013A04	I8260STDL0.19PPB	
5	V08201013A05	I8260STDL0.5PPB	
6	V08201013A06	I8260STDL0.5PPB	
7	V08201013A07	I8260STDL2PPB	
8	V08201013A08	I8260STDL2PPB	
9	V08201013A09	I8260STDL10PPB	
10	V08201013A10	I8260STDL30PPB	
11	V08201013A11	I8260STDL80PPB	
12	V08201013A12	I8260STDL120PPB	
13	V08201013A13	I8260STDL200PPB	
14	V08201013A14	BLK	
15	V08201013A15	BLK	
16	V08201013A16	BLK	
17	V08201013A17	BLK	
18	V08201013A18	BLK	
19	V08201013A19	C8260STDL10PPB	
20	V08201013A20	C8260STDL10PPB	
21	V08201013A21	BLK	
22	V08201013A22	BLK	
23	V08201013A23	BLK	
24	V08201013A24	MDLSTDL0.2PPB	
25	V08201013A25	MDLSTDL0.5PPB	
26	V08201013A26	MDLSTDL2PPB	
1	V08201014ABF1	BFB TUNE	
1	V08201014A01	BLK	
2	V08201014A02	C8260STDL10PPB	
3	V08201014A03	C8260STDL10PPB	
4	V08201014A04	BLK	
5	V08201014A05	METHOD BLK	

RUSH	HT	PRI

Method

Inst: VOA105 BFB: V8075 GC: 8260

Initials: MKS/TMS IS/SS: V8087 Autosampler: 8260water10ml

Date: **10/28/20** CCAL: V8090,V8055C Concentrator: 8260

Run: **N** QC:_____ Seq:_____

Vial	Data File	Sample			pH<2
1	V05201028NBF1	BFB TUNE			
1	V05201028N01	8260 CCAL LCS			
2	V05201028N02	8260 CCAL LCSD			
3	V05201028N03	BLK			
4	V05201028N04	METHOD BLK			
5	V05201028N05	I2046033-01,31,10,10,,a	PA CP51		pH<2
6	V05201028N06	I2046033-02,31,10,10,,a	PA CP51		pH<2
7	V05201028N07	I2046033-03,31,10,10,,a	PA CP51		pH<2
8	V05201028N08	I2046033-04,31,10,10,,a	PA CP51		pH<2
9	V05201028N09	I2046033-05,31,10,10,,a	PA CP51		pH<2
10	V05201028N10	I2046033-06,31,10,10,,a	PA CP51		pH<2
11	V05201028N11	I2046033-07,31,10,10,,a	PA CP51		pH<2
12	V05201028N12	I2046033-08,31,10,10,,a	PA CP51		pH<2
13	V05201028N13	I2046033-09,31,10,10,,a	PA CP51		pH<2
14	V05201028N14	I2046033-10,31,10,10,,a	PA CP51		pH<2
15	V05201028N15	I2046033-11,31,10,10,,a	PA CP51		pH<2
16	V05201028N16	I2046033-12,31,10,10,,a	PA CP51		pH<2
17	V05201028N17	I2046033-13,31,10,10,,a	PA CP51		pH<2
18	V05201028N18	I2046033-14,31,10,10,,a	PA CP51		pH<2
19	V05201028N19	I2046033-15,31,10,10,,a	PA CP51		pH<2
20	V05201028N20	I2046033-16,31,10,10,,a	PA CP51		pH<2
21	V05201028N21	I2046167-04,31,10,10,,c	NY Curve		pH<2
22	V05201028N22	I2046093-09,31,10,10,,a	NJ Benz Only	TB	pH<2
23	V05201028N23	I2046790-01,31,10,10,,a	NYTCL		pH<2
24	V05201028N24	I2046790-03,31,10,10,,a	NYTCL		pH<2

RUSH	HT	PRI

Method

Inst: VOA105 BFB: V8075 GC: 8260

Initials: LAC IS/SS: V8087 Autosampler: 8260water10ml

Date: **10/29/20** CCAL: V8090,V8055C Concentrator: 8260

Run: **N** QC:_____ Seq:_____

Vial	Data File	Sample			pH<2
1	V05201029NBF1	BFB TUNE			
1	V05201029N01	8260 CCAL	LCS		
2	V05201029N02	8260 CCAL	LCSD		
3	V05201029N03	8260 CCAL			
4	V05201029N04	BLK			
5	V05201029N05	METHOD BLK			
6	V05201029N06	I2046380-03,31,10,10,,a	8260NH		pH<2
7	V05201029N07	I2046450-01,31,10,10,,a	8260NH		pH<2
8	V05201029N08	I2046450-02,31,10,10,,a	8260NH		pH<2
9	V05201029N09	I2046450-03,31,10,10,,a	8260NH		pH<2
10	V05201029N10	I2046450-04,31,10,10,,a	8260NH		pH<2
11	V05201029N11	I2046450-05,31,10,10,,a	8260NH		pH<2
12	V05201029N12	I2046452-01,31,10,10,,a	8260NH		pH<2
13	V05201029N13	I2046452-02,31,10,10,,a	8260NH		pH<2
14	V05201029N14	I2046452-03,31,10,10,,a	8260NH		pH<2
15	V05201029N15	I2046452-04,31,10,10,,a	8260NH		pH<2
16	V05201029N16	I2046452-05,31,10,10,,a	8260NH		pH<2
17	V05201029N17	I2046531-01,31,10,10,,a	8260NH	TB	pH<2
18	V05201029N18	I2046531-02,31,10,10,,a	8260NH		pH<2
19	V05201029N19	I2046531-03,31,10,10,,a	8260NH		pH<2
20	V05201029N20	I2046531-04,31,10,10,,a	8260NH		pH<2
21	V05201029N21	I2046531-06,31,10,10,,a	8260NH		pH<2
22	V05201029N22	I2046531-07,31,10,10,,a	8260NH		pH<2
23	V05201029N23	I2046421-02D2,31,0.4,10,,c	8260NH/TOL ONLY		pH<2
24	V05201029N24	I2046790-03D,31,2.5,10,,c	NY/PCE ONLY		pH<2
25	V05201029N25	I2046527-02D2,31,0.4,10,,c	PA/EB ONLY		pH<2

RUSH	HT	PRI

Inst: VOA108
Initials: JMT
Date **10/29/20**
Run **A**

BFB: V8075
IS/SS: V8095
CCAL: V8055D, V8090

Method
GC: 8260-ATOMX
Autosampler: 8260
Concentrator: 8260

QC:_____ Seq:_____

Vial	Data File	Sample			pH<2
1	V08201029ABF1	BFB TUNE 07:47			
1	V08201029A01	8260 CCAL LCS			
2	V08201029A02	8260 CCAL LCSD			
3	V08201029A03	8260 CCAL			
4	V08201029A04	BLK			
5	V08201029A05	METHOD BLK			
6	V08201029A06	I2046790-02,31,10,10,,a	NYCURVE		pH<2
7	V08201029A07	I2046790-04,31,10,10,,a	NYCURVE		pH<2
8	V08201029A08	I2046380-01,31,10,10,,a	8260NH		pH<2
9	V08201029A09	I2046380-02,31,10,10,,a	8260NH		pH<2
10	V08201029A10	I2046053-01D,31,2,10,,b	NJ/MCH	COMP VIAL	pH>2
11	V08201029A11	I2046280-01,31,10,10,,a	PA/NYSTARS		pH<2
12	V08201029A12	I2046280-03,31,10,10,,a	PA/NYSTARS		pH<2
13	V08201029A13	I2046280-02D,31,1,10,,a	PA/NYSTARS		pH<2
14	V08201029A14	I2046527-02D,31,1,10,,a	PA/NYSTARS		pH<2
15	V08201029A15	I2046527-03D,31,2.5,10,,a	PA/NYSTARS		pH<2
16	V08201029A16	I2046527-06,31,10,10,,a	PA/NYSTARS		pH<2
17	V08201029A17	I2046527-01,31,10,10,,a	PA/NYSTARS		pH<2
18	V08201029A18	I2046527-04,31,10,10,,a	PA/NYSTARS		pH<2
19	V08201029A19	I2046527-05,31,10,10,,a	PA/NYSTARS		pH<2
20	V08201029A20	I2046527-08,31,10,10,,a	PA/NYSTARS		pH<2
21	V08201029A21	I2046527-07,31,10,10,,a	PA/NYSTARS		pH<2
22	V08201029A22	I2046161-01,31,10,10,,c	PA8260/15		pH<2
23	V08201029A23	I2047162-01,31,10,10,,a	NYTCL		pH<2
24	V08201029A24	I2047162-02,31,10,10,,a	NYTCL		pH<2
25	V08201029A25	I2047162-03,31,10,10,,a	NYTCL		pH<2

Semivolatiles Data- Method 8270D

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Impact Environmental
Project Name: 13-12 BEACH CHANNEL DRIVE

Lab Number: L2046790
Project Number: 15209
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
MW-1 (L2046790-01)	47	41	62	61	45	65	0
MW-2 (L2046790-02)	51	45	65	65	48	74	0
MW-3 (L2046790-03)	61	51	77	75	64	85	0
TWP-1 (L2046790-04)	60	52	71	74	56	79	0
WG1427424-1BLANK	58	49	70	75	51	75	0
WG1427424-2LCS	51	47	61	63	94	75	0
WG1427424-3LCSD	62	55	75	73	91	77	0

QC LIMITS

(21-120) 2FP = 2-FLUOROPHENOL
(10-120) PHL = PHENOL-D6
(23-120) NBZ = NITROBENZENE-D5
(15-120) FBP = 2-FLUOROBIPHENYL
(10-120) TBP = 2,4,6-TRIBROMOPHENOL
(41-149) TPH = 4-TERPHENYL-D14

* Values outside of QC limits

FORM II NYTCL-8270-LVI

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Matrix	: WATER		
LCS Sample ID	: WG1427424-2 **Analysis Date** : 10/28/20 23:47	**File ID**	: 427424-2
LCSD Sample ID	: WG1427424-3 **Analysis Date** : 10/29/20 00:10	**File ID**	: 427424-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Dibenzofuran	18	13.	70	18	14.	77	10	40-140	30
Phenol	18	8.9	49	18	10.	55	12	12-110	30
2-Methylphenol	18	11.	63	18	13.	73	15	30-130	30
3-Methylphenol/4-Methylphenol	18	12.	66	18	14.	75	13	30-130	30

Method Blank Summary
Form 4
Semivolatiles

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab Sample ID	: WG1427424-1	**Lab File ID**	: 427424-1
Instrument ID	: SV124	**Extraction Date**	: 10/28/20
Matrix	: WATER	**Analysis Date**	: 10/28/20 23:24
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1427424-2LCS	WG1427424-2	10/28/20 23:47
WG1427424-3LCSD	WG1427424-3	10/29/20 00:10
MW-2	L2046790-02	10/29/20 03:39
MW-3	L2046790-03	10/29/20 04:02
MW-1	L2046790-01	10/29/20 04:25
TWP-1	L2046790-04	10/29/20 04:48

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: SV124	**Analysis Date**	: 10/12/20 14:11
Tune Standard	: R1361588-34	**Tune File ID**	: Tune1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	41
68	Less than 2.0% of mass 69	0.7 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	52.2
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	24.3
365	Greater than 1.0% of mass 198	3.5
441	Present, but less than 24% of mass 442	16.8
442	Base Peak, or >50% of mass 198	68.9
443	15.0 - 24.0% of mass 442	13.4 (19.4)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ABNL10	R1361588-25	ABNL10	10/12/20 14:34
ABNL9	R1361588-32	ABNL9	10/12/20 14:57
ABNL8	R1361588-33	ABNL8	10/12/20 15:20
ABNL7	R1361588-31	ABNL7	10/12/20 15:43
ABNL6	R1361588-29	ABNL6	10/12/20 16:06
ABNL5	R1361588-30	ABNL5	10/12/20 16:29
ABNL4	R1361588-28	ABNL4	10/12/20 16:53
ABNL3	R1361588-26	ABNL3	10/12/20 17:16
ABNL2	R1361588-27	ABNL2	10/12/20 17:39
ABNL1	R1361588-24	ABNL1	10/12/20 18:02
AP9L10	R1361588-15	AP9L10	10/12/20 18:25
AP9L9	R1361588-21	AP9L9	10/12/20 18:48
AP9L8	R1361588-22	AP9L8	10/12/20 19:12
AP9L7	R1361588-19	AP9L7	10/12/20 19:35
AP9L6	R1361588-20	AP9L6	10/12/20 19:58
AP9L5	R1361588-18	AP9L5	10/12/20 20:22
AP9L4	R1361588-17	AP9L4	10/12/20 20:45
AP9L3	R1361588-16	AP9L3	10/12/20 21:08
AP9L2	R1361588-14	AP9L2	10/12/20 21:31
AP9L1	R1361588-11	AP9L1	10/12/20 21:55
AP9 ICV Quant Report	R1361588-2	AP9ICV	10/12/20 22:41

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: SV124	**Analysis Date**	: 10/12/20 23:04
Tune Standard	: R1361588-35	**Tune File ID**	: Tune2_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	40.7
68	Less than 2.0% of mass 69	0.6 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	51.9
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 60.0% of Base Peak	23.8
365	Greater than 1.0% of mass 198	3.4
441	Present, but less than 24% of mass 442	16.3
442	Base Peak, or >50% of mass 198	68.2
443	15.0 - 24.0% of mass 442	13.6 (20)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ADPL10	R1361588-4	ADPL10	10/12/20 23:27
ADPL9	R1361588-13	ADPL9	10/12/20 23:51
ADPL8	R1361588-12	ADPL8	10/13/20 00:14
ADPL7	R1361588-9	ADPL7	10/13/20 00:37
ADPL6	R1361588-10	ADPL6	10/13/20 01:00
ADPL5	R1361588-8	ADPL5	10/13/20 01:23
ADPL4	R1361588-7	ADPL4	10/13/20 01:46
ADPL3	R1361588-5	ADPL3	10/13/20 02:09
ADPL2	R1361588-6	ADPL2	10/13/20 02:32
ADPL1	R1361588-3	ADPL1	10/13/20 02:56
ADP ICV Quant Report	R1361588-1	ADPICV	10/13/20 03:19

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: SV124	**Analysis Date**	: 10/13/20 15:41
Tune Standard	: R1361588-36	**Tune File ID**	: Tune3_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	40.9
68	Less than 2.0% of mass 69	0.6 (1.5)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	52.1
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.5
275	10.0 - 60.0% of Base Peak	24.4
365	Greater than 1.0% of mass 198	3.3
441	Present, but less than 24% of mass 442	17.3
442	Base Peak, or >50% of mass 198	67.8
443	15.0 - 24.0% of mass 442	13.5 (19.9)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ADP ICV Quant Report	R1361588-23	ABNICVA	10/13/20 18:48

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: SV124	**Analysis Date**	: 10/28/20 21:51
Tune Standard	: WG1426005-1	**Tune File ID**	: Deg1028_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	39.5
68	Less than 2.0% of mass 69	0.6 (1.5)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	51.4
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	23.5
365	Greater than 1.0% of mass 198	3.2
441	Present, but less than 24% of mass 442	16.9
442	Base Peak, or >50% of mass 198	65.5
443	15.0 - 24.0% of mass 442	12.7 (19.4)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1426005-3CCAL	WG1426005-3	ABN1028	10/28/20 22:14
WG1426005-4CCAL	WG1426005-4	AP91028	10/28/20 22:37
WG1426005-5CCAL	WG1426005-5	ADP1028	10/28/20 23:01
WG1427424-1BLANK	WG1427424-1	427424-1	10/28/20 23:24
WG1427424-2LCS	WG1427424-2	427424-2	10/28/20 23:47
WG1427424-3LCSD	WG1427424-3	427424-3	10/29/20 00:10
MW-2	L2046790-02	46790-02	10/29/20 03:39
MW-3	L2046790-03	46790-03	10/29/20 04:02
MW-1	L2046790-01	46790-01	10/29/20 04:25
TWP-1	L2046790-04	46790-04	10/29/20 04:48

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: SV124	**Analysis Date**	: 10/28/20 22:14:00
Sample No	: WG1426005-3	**Lab File ID**	: ABN1028

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1426005-3	71509	4.51	170374	5.75	94617	7.46
Upper Limit	143018	5.01	340748	6.25	189234	7.96
Lower Limit	35755	4.01	85187	5.25	47309	6.96
Sample ID						
WG1426005-4 CCAL	63930	4.51	162378	5.75	87701	7.46
WG1426005-5 CCAL	59319	4.51	-	-	75844	7.46
WG1427424-1 BLANK	61528	4.51	148990	5.75	77901	7.46
WG1427424-2 LCS	50269	4.51	119735	5.75	63086	7.47
WG1427424-3 LCSD	58838	4.51	141182	5.75	74728	7.47
MW-2	58433	4.51	142345	5.75	74532	7.47
MW-3	63566	4.51	159195	5.75	82685	7.47
MW-1	58998	4.51	147240	5.75	77268	7.47
TWP-1	66563	4.51	165516	5.75	86939	7.47

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: SV124	**Analysis Date**	: 10/28/20 22:14:00
Sample No	: WG1426005-3	**Lab File ID**	: ABN1028

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1426005-3	179611	8.90	190256	11.53	196697	13.00
Upper Limit	359222	9.40	380512	12.03	393394	13.50
Lower Limit	89806	8.40	95128	11.03	98349	12.50
Sample ID						
WG1426005-4 CCAL	188497	8.90	-	-	-	-
WG1426005-5 CCAL	154615	8.90	-	-	-	-
WG1427424-1 BLANK	146884	8.90	124236	11.53	118421	13.00
WG1427424-2 LCS	123631	8.90	115961	11.53	115182	13.00
WG1427424-3 LCSD	146378	8.90	137065	11.53	142855	13.00
MW-2	143624	8.90	134564	11.54	140628	13.00
MW-3	163454	8.90	152614	11.54	158695	13.00
MW-1	152972	8.90	138410	11.54	133050	13.00
TWP-1	167868	8.90	148796	11.54	150254	13.00

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Date Created: 04/22/20
Created By: Jason Hebert
File: PM8396-1
Page: 1

ABN Extractables - EPA 8270D (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	2	1.06	ug/l	37-111	30	37-111	30	30			
Benzidine	92-87-5	20	8.14	ug/l	10-75	30	10-75	30	30			
1,2,4-Trichlorobenzene	120-82-1	5	0.581	ug/l	39-98	30	39-98	30	30			
Hexachlorobenzene	118-74-1	2	0.69	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethyl)ether	111-44-4	2	0.884	ug/l	40-140	30	40-140	30	30			
2-Chloronaphthalene	91-58-7	2	0.538	ug/l	40-140	30	40-140	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.636	ug/l	40-140	30	40-140	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.642	ug/l	40-140	30	40-140	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.463	ug/l	36-97	30	36-97	30	30			
3,3'-Dichlorobenzidine	91-94-1	5	0.854	ug/l	40-140	30	40-140	30	30			
2,4-Dinitrotoluene	121-14-2	5	0.382	ug/l	48-143	30	48-143	30	30			
2,6-Dinitrotoluene	606-20-2	5	0.368	ug/l	40-140	30	40-140	30	30			
Azobenzene	103-33-3	2	0.81	ug/l	40-140	30	40-140	30	30			
Fluoranthene	206-44-0	2	0.653	ug/l	40-140	30	40-140	30	30			
4-Chlorophenyl phenyl ether	7005-72-3	2	0.795	ug/l	40-140	30	40-140	30	30			
4-Bromophenyl phenyl ether	101-55-3	2	0.632	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroisopropyl)ether	108-60-1	2	1.75	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethoxy)methane	111-91-1	5	1.49	ug/l	40-140	30	40-140	30	30			
Hexachlorobutadiene	87-68-3	2	0.6	ug/l	40-140	30	40-140	30	30			
Hexachlorocyclopentadiene	77-47-4	20	0.606	ug/l	40-140	30	40-140	30	30			
Hexachloroethane	67-72-1	2	0.44	ug/l	40-140	30	40-140	30	30			
Isophorone	78-59-1	5	0.657	ug/l	40-140	30	40-140	30	30			
Naphthalene	91-20-3	2	0.669	ug/l	40-140	30	40-140	30	30			
Nitrobenzene	98-95-3	2	0.656	ug/l	40-140	30	40-140	30	30			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	2	0.65	ug/l	40-140	30	40-140	30	30			
n-Nitrosodi-n-propylamine	621-64-7	5	0.771	ug/l	29-132	30	29-132	30	30			
Bis(2-Ethylhexyl)phthalate	117-81-7	3	1.51	ug/l	40-140	30	40-140	30	30			
Butyl benzyl phthalate	85-68-7	5	2.18	ug/l	40-140	30	40-140	30	30			
Di-n-butylphthalate	84-74-2	5	0.58	ug/l	40-140	30	40-140	30	30			
Di-n-octylphthalate	117-84-0	5	2.39	ug/l	40-140	30	40-140	30	30			
Diethyl phthalate	84-66-2	5	4.3	ug/l	40-140	30	40-140	30	30			
Dimethyl phthalate	131-11-3	5	4.44	ug/l	40-140	30	40-140	30	30			
Benzo(a)anthracene	56-55-3	2	0.767	ug/l	40-140	30	40-140	30	30			
Benzo(a)pyrene	50-32-8	2	0.447	ug/l	40-140	30	40-140	30	30			
Benzo(b)fluoranthene	205-99-2	2	0.814	ug/l	40-140	30	40-140	30	30			
Benzo(k)fluoranthene	207-08-9	2	0.816	ug/l	40-140	30	40-140	30	30			
Chrysene	218-01-9	2	0.828	ug/l	40-140	30	40-140	30	30			
Acenaphthylene	208-96-8	2	0.59	ug/l	45-123	30	45-123	30	30			
Anthracene	120-12-7	2	0.79	ug/l	40-140	30	40-140	30	30			
Benzo(ghi)perylene	191-24-2	2	0.77	ug/l	40-140	30	40-140	30	30			
Fluorene	86-73-7	2	1.05	ug/l	40-140	30	40-140	30	30			
Phenanthrene	85-01-8	2	0.992	ug/l	40-140	30	40-140	30	30			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

ABN Extractables - EPA 8270D (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibenzo(a,h)anthracene	53-70-3	2	0.452	ug/l	40-140	30	40-140	30	30			
Indeno(1,2,3-cd)Pyrene	193-39-5	2	0.943	ug/l	40-140	30	40-140	30	30			
Pyrene	129-00-0	2	0.704	ug/l	26-127	30	26-127	30	30			
Biphenyl	92-52-4	2	0.635	ug/l	40-140	30	40-140	30	30			
Aniline	62-53-3	2	0.482	ug/l	40-140	30	40-140	30	30			
4-Chloroaniline	106-47-8	5	0.647	ug/l	40-140	30	40-140	30	30			
1-Methylnaphthalene	90-12-0	2	0.595	ug/l	41-103	30	41-103	30	30			
2-Nitroaniline	88-74-4	5	0.519	ug/l	52-143	30	52-143	30	30			
3-Nitroaniline	99-09-2	5	0.574	ug/l	25-145	30	25-145	30	30			
4-Nitroaniline	100-01-6	5	0.581	ug/l	51-143	30	51-143	30	30			
Dibenzofuran	132-64-9	2	0.823	ug/l	40-140	30	40-140	30	30			
2-Methylnaphthalene	91-57-6	2	0.677	ug/l	40-140	30	40-140	30	30			
1,2,4,5-Tetrachlorobenzene	95-94-3	10	0.621	ug/l	2-134	30	2-134	30	30			
Pentachloronitrobenzene	82-68-8	10	0.596	ug/l	4-189	30	4-189	30	30			
Acetophenone	98-86-2	5	0.983	ug/l	39-129	30	39-129	30	30			
n-Nitrosodimethylamine	62-75-9	2	0.524	ug/l	22-74	30	22-74	30	30			
2,4,6-Trichlorophenol	88-06-2	5	0.494	ug/l	30-130	30	30-130	30	30			
P-Chloro-M-Cresol	59-50-7	2	0.406	ug/l	23-97	30	23-97	30	30			
2-Chlorophenol	95-57-8	2	0.405	ug/l	27-123	30	27-123	30	30			
2,4-Dichlorophenol	120-83-2	5	0.527	ug/l	30-130	30	30-130	30	30			
2,4-Dimethylphenol	105-67-9	5	1.1	ug/l	30-130	30	30-130	30	30			
2-Nitrophenol	88-75-5	10	0.463	ug/l	30-130	30	30-130	30	30			
4-Nitrophenol	100-02-7	10	1.14	ug/l	10-80	30	10-80	30	30			
2,4-Dinitrophenol	51-28-5	20	3.55	ug/l	20-130	30	20-130	30	30			
4,6-Dinitro-o-cresol	534-52-1	10	5.42	ug/l	20-164	30	20-164	30	30			
Pentachlorophenol	87-86-5	10	1.95	ug/l	9-103	30	9-103	30	30			
Phenol	108-95-2	5	1.3	ug/l	12-110	30	12-110	30	30			
2-Methylphenol	95-48-7	5	1.1	ug/l	30-130	30	30-130	30	30			
3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	5	0.55	ug/l	30-130	30	30-130	30	30			
2,4,5-Trichlorophenol	95-95-4	5	0.381	ug/l	30-130	30	30-130	30	30			
Benzoic Acid	65-85-0	50	12.9	ug/l	10-164	30	10-164	30	30			
Benzyl Alcohol	100-51-6	2	0.698	ug/l	26-116	30	26-116	30	30			
Carbazole	86-74-8	2	0.759	ug/l	55-144	30	55-144	30	30			
Pyridine	110-86-1	3.5	0.905	ug/l	10-66	30	10-66	30	30			
1,3-Dinitrobenzene	99-65-0	2	0.386	ug/l	15-130	30	15-130	30	30			
Parathion, ethyl	56-38-2	10	6.4	ug/l	40-140	30	40-140	30	30			
3,3'-Dimethylbenzidine	119-93-7	50	7.42	ug/l	40-140	30	40-140	30	30			
Thionazin	297-97-2	1.7	1.7	ug/l	40-140	30	40-140	30	30			
Dichloran	99-30-9	5	3.36	ug/l	40-140	30	40-140	30	30			
1-Chloro-2-nitrobenzene	88-73-3	5	0.602	ug/l	40-140	30	40-140	30	30			
2-Chloroaniline	95-51-2	5	0.769	ug/l	15-130	30	15-130	30	30			
3-Chloroaniline	108-42-9	10	0.937	ug/l	40-140	30	40-140	30	30			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

ABN Extractables - EPA 8270D (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Diphenamid	957-51-7	5	1.1	ug/l	40-140	30	40-140	30	30			
M-Toluidine	108-44-1	10	1.68	ug/l	40-140	30	40-140	30	30			
Atrazine	1912-24-9	10	1.72	ug/l	40-140	30	40-140	30	30			
Benzaldehyde	100-52-7	5	0.903	ug/l	40-140	30	40-140	30	30			
Caprolactam	105-60-2	10	1.27	ug/l	10-130	30	10-130	30	30			
2,3,4,6-Tetrachlorophenol	58-90-2	5	0.469	ug/l	40-140	30	40-140	30	30			
2-Fluorophenol	*367-12-4*									*21-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*41-149*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Semivolatile Sample Data

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-01	**Date Collected**	: 10/27/20 08:15
Client ID	: MW-1	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 04:25
Sample Matrix	: WATER	**Date Extracted**	: 10/28/20
Analytical Method	: 1,8270D	**Dilution Factor**	: 1
Lab File ID	: 46790-01	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: SV124
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
132-64-9	Dibenzofuran	ND	2.0	0.50	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-02	**Date Collected**	: 10/27/20 09:30
Client ID	: MW-2	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 03:39
Sample Matrix	: WATER	**Date Extracted**	: 10/28/20
Analytical Method	: 1,8270D	**Dilution Factor**	: 1
Lab File ID	: 46790-02	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: SV124
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
132-64-9	Dibenzofuran	ND	2.0	0.50	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-03	**Date Collected**	: 10/27/20 10:15
Client ID	: MW-3	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 04:02
Sample Matrix	: WATER	**Date Extracted**	: 10/28/20
Analytical Method	: 1,8270D	**Dilution Factor**	: 1
Lab File ID	: 46790-03	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: SV124
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
132-64-9	Dibenzofuran	ND	2.0	0.50	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-04	**Date Collected**	: 10/27/20 08:45
Client ID	: TWP-1	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 04:48
Sample Matrix	: WATER	**Date Extracted**	: 10/28/20
Analytical Method	: 1,8270D	**Dilution Factor**	: 1
Lab File ID	: 46790-04	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: SV124
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
132-64-9	Dibenzofuran	ND	2.0	0.50	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: WG1427424-1	**Date Collected**	: NA
Client ID	: WG1427424-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 10/28/20 23:24
Sample Matrix	: WATER	**Date Extracted**	: 10/28/20
Analytical Method	: 1,8270D	**Dilution Factor**	: 1
Lab File ID	: 427424-1	**Analyst**	: JG
Sample Amount	: 275 ml	**Instrument ID**	: SV124
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
132-64-9	Dibenzofuran	ND	2.0	0.50	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201028lvi\
Data File : 46790-02.d
Acq On : 29 Oct 2020 3:39 am
Operator : SV124:jg
Sample : L2046790-02,32,,NY-LVI,ASK+
Misc : WG1426005,WG1427424,ICAL17255
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 29 14:01:03 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 13:28:14 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201028lvi\ABN1028.d
: 2 - I:\8270\SV124\201028lvi\ADP1028.d
: 3 - I:\8270\SV124\201028lvi\AP91028.d
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.507	150	58433	4.000	ug/ml	# 0.00
Standard Area 1 = 71509			Recovery = 81.71%			
27) IS2_1,4-Dichlorobenzen...	4.507	150	58433	4.000	ug/ml	# 0.00
Standard Area 3 = 63930			Recovery = 91.40%			
34) IS1_Naphthalene-d8	5.754	136	142345	4.000	ug/ml	0.00
Standard Area 1 = 170374			Recovery = 83.55%			
54) IS2_Naphthalene-d8	5.754	136	142345	4.000	ug/ml	0.00
Standard Area 3 = 162378			Recovery = 87.66%			
62) IS1_Acenaphthene-d10	7.466	164	74532	4.000	ug/ml	0.00
Standard Area 1 = 94617			Recovery = 78.77%			
82) IS2_Acenaphthene-d10	7.466	164	74532	4.000	ug/ml	0.00
Standard Area 3 = 87701			Recovery = 84.98%			
85) IS3_Acenaphthene-d10	7.466	164	74532	4.000	ug/ml	0.00
Standard Area 2 = 75844			Recovery = 98.27%			
87) IS1_Phenanthrene-d10	8.901	188	143624	4.000	ug/ml	0.00
Standard Area 1 = 179611			Recovery = 79.96%			
99) IS3_Phenanthrene-d10	8.901	188	143624	4.000	ug/ml	0.00
Standard Area 2 = 154615			Recovery = 92.89%			
103) IS1_Chrysene-d12	11.536	240	134564	4.000	ug/ml	0.00
Standard Area 1 = 190256			Recovery = 70.73%			
112) IS1_Perylene-d12	12.995	264	140628	4.000	ug/ml	0.00
Standard Area 1 = 196697			Recovery = 71.49%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.213	112	23948	2.532	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 50.64%			
7) Phenol-d6	4.190	99	25862	2.256	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 45.12%			
19) Nitrobenzene-d5	5.060	82	18019	1.622	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 64.88%			
45) 2-Fluorobiphenyl	6.837	172	46611	1.624	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 64.96%			
78) 2,4,6-Tribromophenol	8.236	330	9541	2.395	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 47.90%			
95) 4-Terphenyl-d14	10.489	244	63053	1.859	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 74.36%			

Data Path : I:\8270\SV124\201028lvi\
Data File : 46790-02.d
Acq On : 29 Oct 2020 3:39 am
Operator : SV124:jg
Sample : L2046790-02,32,,NY-LVI,ASK+
Misc : WG1426005,WG1427424,ICAL17255
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 29 14:01:03 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 13:28:14 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201028lvi\ABN1028.d
: 2 - I:\8270\SV124\201028lvi\ADP1028.d
: 3 - I:\8270\SV124\201028lvi\AP91028.d
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
8) Phenol	0.000		0		N.D.	
15) 2-Methylphenol	0.000		0		N.D.	
18) 3-Methylphenol/4-Methy...	0.000		0		N.D.	
66) Dibenzofuran	0.000		0		N.D.	

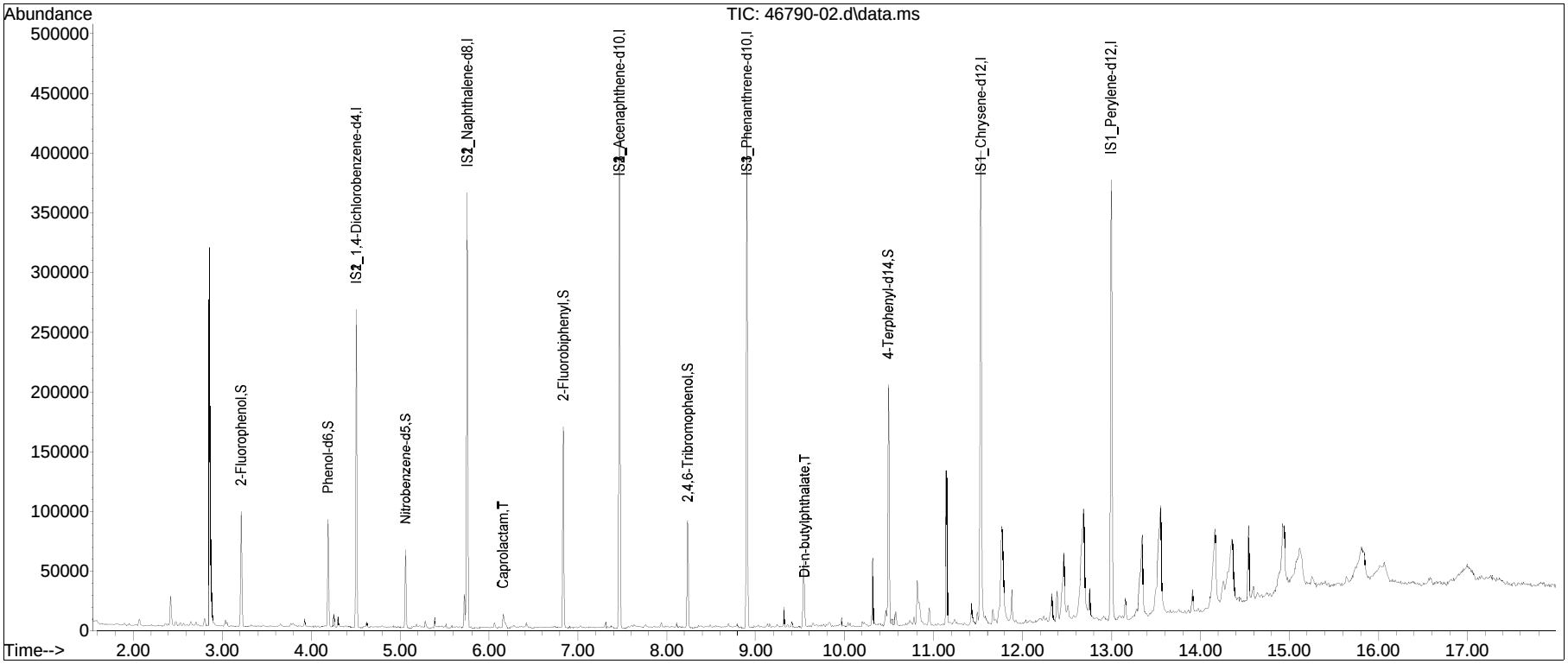
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201028lvi\
Data File : 46790-02.d
Acq On : 29 Oct 2020 3:39 am
Operator : SV124:jg
Sample : L2046790-02,32,,NY-LVI,ASK+
Misc : WG1426005,WG1427424,ICAL17255
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 29 14:01:03 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 13:28:14 2020
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA91028.d•



Manual Integration Report

Data Path	: I:\8270\SV124\201028lvi\	QMethod	: FS201012SV124.m
Data File	: 46790-02.d	Operator	: SV124:jg
Date Inj'd	: 10/29/2020 3:39 am	Instrument	: SV 124
Sample	: L2046790-02,32,,NY-LVI,ASK	Quant Date	: 10/29/2020 1:29 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201028lvi\
Data File : 46790-03.d
Acq On : 29 Oct 2020 4:02 am
Operator : SV124:jg
Sample : L2046790-03,32,,NY-LVI,ASK+
Misc : WG1426005,WG1427424,ICAL17255
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 29 14:01:35 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 13:28:14 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201028lvi\ABN1028.d
: 2 - I:\8270\SV124\201028lvi\ADP1028.d
: 3 - I:\8270\SV124\201028lvi\AP91028.d
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.507	150	63566	4.000	ug/ml	0.00
Standard Area 1 = 71509			Recovery = 88.89%			
27) IS2_1,4-Dichlorobenzen...	4.507	150	63566	4.000	ug/ml	0.00
Standard Area 3 = 63930			Recovery = 99.43%			
34) IS1_Naphthalene-d8	5.754	136	159195	4.000	ug/ml	0.00
Standard Area 1 = 170374			Recovery = 93.44%			
54) IS2_Naphthalene-d8	5.754	136	159195	4.000	ug/ml	0.00
Standard Area 3 = 162378			Recovery = 98.04%			
62) IS1_Acenaphthene-d10	7.466	164	82685	4.000	ug/ml	0.00
Standard Area 1 = 94617			Recovery = 87.39%			
82) IS2_Acenaphthene-d10	7.466	164	82685	4.000	ug/ml	0.00
Standard Area 3 = 87701			Recovery = 94.28%			
85) IS3_Acenaphthene-d10	7.466	164	82685	4.000	ug/ml	0.00
Standard Area 2 = 75844			Recovery = 109.02%			
87) IS1_Phenanthrene-d10	8.901	188	163454	4.000	ug/ml	0.00
Standard Area 1 = 179611			Recovery = 91.00%			
99) IS3_Phenanthrene-d10	8.901	188	163454	4.000	ug/ml	0.00
Standard Area 2 = 154615			Recovery = 105.72%			
103) IS1_Chrysene-d12	11.536	240	152614	4.000	ug/ml	0.00
Standard Area 1 = 190256			Recovery = 80.22%			
112) IS1_Perylene-d12	13.001	264	158695	4.000	ug/ml	0.00
Standard Area 1 = 196697			Recovery = 80.68%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.213	112	31464	3.059	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 61.18%			
7) Phenol-d6	4.190	99	31757	2.547	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 50.94%			
19) Nitrobenzene-d5	5.060	82	23281	1.927	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 77.08%			
45) 2-Fluorobiphenyl	6.837	172	60550	1.887	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 75.48%			
78) 2,4,6-Tribromophenol	8.236	330	14406	3.222	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 64.44%			
95) 4-Terphenyl-d14	10.495	244	82009	2.124	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 84.96%			

Data Path : I:\8270\SV124\201028lvi\
Data File : 46790-03.d
Acq On : 29 Oct 2020 4:02 am
Operator : SV124:jg
Sample : L2046790-03,32,,NY-LVI,ASK+
Misc : WG1426005,WG1427424,ICAL17255
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 29 14:01:35 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 13:28:14 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201028lvi\ABN1028.d
: 2 - I:\8270\SV124\201028lvi\ADP1028.d
: 3 - I:\8270\SV124\201028lvi\AP91028.d
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
8) Phenol	0.000		0		N.D.	
15) 2-Methylphenol	0.000		0		N.D.	
18) 3-Methylphenol/4-Methy...	0.000		0		N.D.	
66) Dibenzofuran	0.000		0		N.D.	

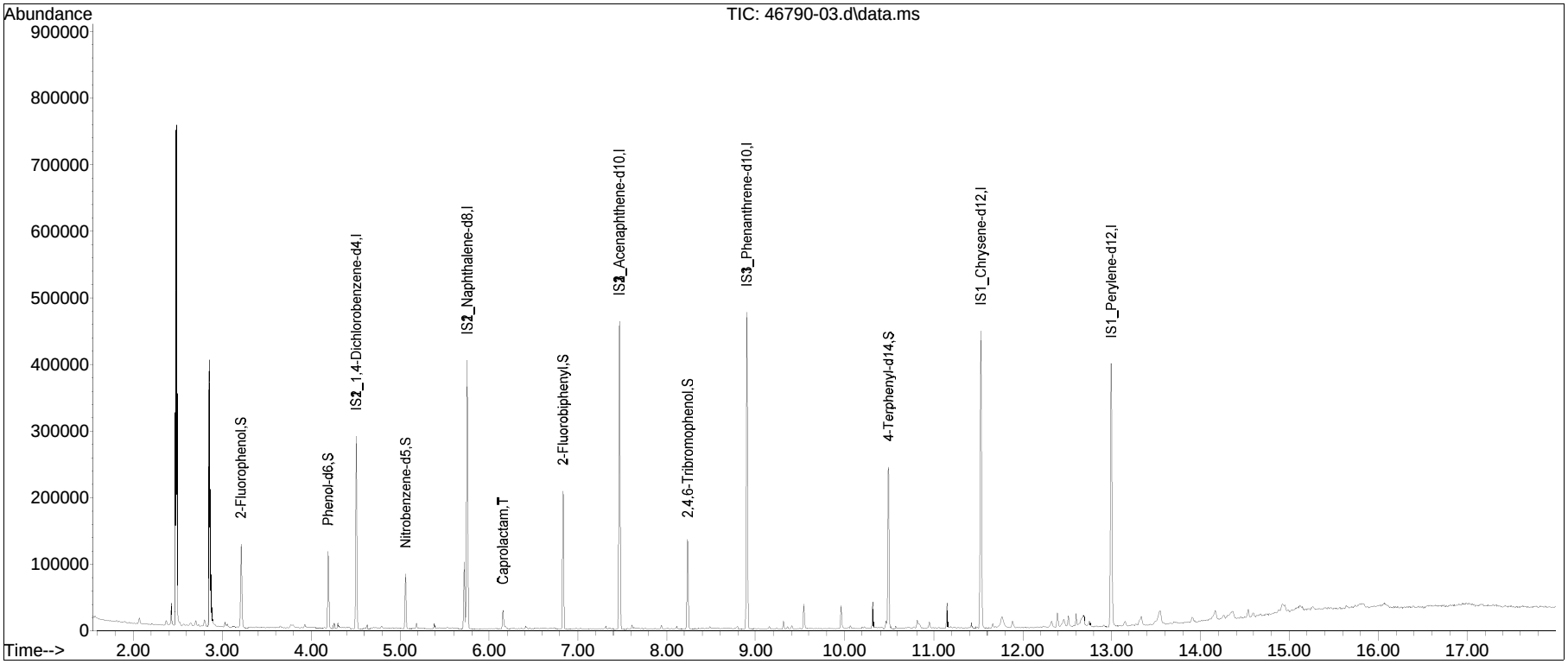
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201028lvi\
Data File : 46790-03.d
Acq On : 29 Oct 2020 4:02 am
Operator : SV124:jg
Sample : L2046790-03,32,,NY-LVI,ASK+
Misc : WG1426005,WG1427424,ICAL17255
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 29 14:01:35 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 13:28:14 2020
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA91028.d•



Manual Integration Report

Data Path	: I:\8270\SV124\201028lvi\	QMethod	: FS201012SV124.m
Data File	: 46790-03.d	Operator	: SV124:jg
Date Inj'd	: 10/29/2020 4:02 am	Instrument	: SV 124
Sample	: L2046790-03,32,,NY-LVI,ASK	Quant Date	: 10/29/2020 1:30 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201028lvi\
Data File : 46790-01.d
Acq On : 29 Oct 2020 4:25 am
Operator : SV124:jg
Sample : L2046790-01,32,,NY-LVI,ASK+
Misc : WG1426005,WG1427424,ICAL17255
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 29 14:00:12 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 13:28:14 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201028lvi\ABN1028.d
: 2 - I:\8270\SV124\201028lvi\ADP1028.d
: 3 - I:\8270\SV124\201028lvi\AP91028.d
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.507	150	58998	4.000	ug/ml	0.00
Standard Area 1 = 71509			Recovery = 82.50%			
27) IS2_1,4-Dichlorobenzen...	4.507	150	58998	4.000	ug/ml	0.00
Standard Area 3 = 63930			Recovery = 92.29%			
34) IS1_Naphthalene-d8	5.754	136	147240	4.000	ug/ml	0.00
Standard Area 1 = 170374			Recovery = 86.42%			
54) IS2_Naphthalene-d8	5.754	136	147240	4.000	ug/ml	0.00
Standard Area 3 = 162378			Recovery = 90.68%			
62) IS1_Acenaphthene-d10	7.466	164	77268	4.000	ug/ml	0.00
Standard Area 1 = 94617			Recovery = 81.66%			
82) IS2_Acenaphthene-d10	7.466	164	77268	4.000	ug/ml	0.00
Standard Area 3 = 87701			Recovery = 88.10%			
85) IS3_Acenaphthene-d10	7.466	164	77268	4.000	ug/ml	0.00
Standard Area 2 = 75844			Recovery = 101.88%			
87) IS1_Phenanthrene-d10	8.901	188	152972	4.000	ug/ml	0.00
Standard Area 1 = 179611			Recovery = 85.17%			
99) IS3_Phenanthrene-d10	8.901	188	152972	4.000	ug/ml	0.00
Standard Area 2 = 154615			Recovery = 98.94%			
103) IS1_Chrysene-d12	11.536	240	138410	4.000	ug/ml	0.00
Standard Area 1 = 190256			Recovery = 72.75%			
112) IS1_Perylene-d12	13.001	264	133050	4.000	ug/ml	0.00
Standard Area 1 = 196697			Recovery = 67.64%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.213	112	22647	2.372	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 47.44%			
7) Phenol-d6	4.189	99	23779	2.055	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 41.10%			
19) Nitrobenzene-d5	5.060	82	17463	1.557	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 62.28%			
45) 2-Fluorobiphenyl	6.836	172	45467	1.532	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 61.28%			
78) 2,4,6-Tribromophenol	8.236	330	9314	2.261	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 45.22%			
95) 4-Terphenyl-d14	10.495	244	58816	1.628	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 65.12%			

Data Path : I:\8270\SV124\201028lvi\
Data File : 46790-01.d
Acq On : 29 Oct 2020 4:25 am
Operator : SV124:jg
Sample : L2046790-01,32,,NY-LVI,ASK+
Misc : WG1426005,WG1427424,ICAL17255
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 29 14:00:12 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 13:28:14 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201028lvi\ABN1028.d
: 2 - I:\8270\SV124\201028lvi\ADP1028.d
: 3 - I:\8270\SV124\201028lvi\AP91028.d
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
8) Phenol	0.000		0		N.D.	
15) 2-Methylphenol	0.000		0		N.D.	
18) 3-Methylphenol/4-Methy...	0.000		0		N.D.	
66) Dibenzofuran	0.000		0		N.D.	

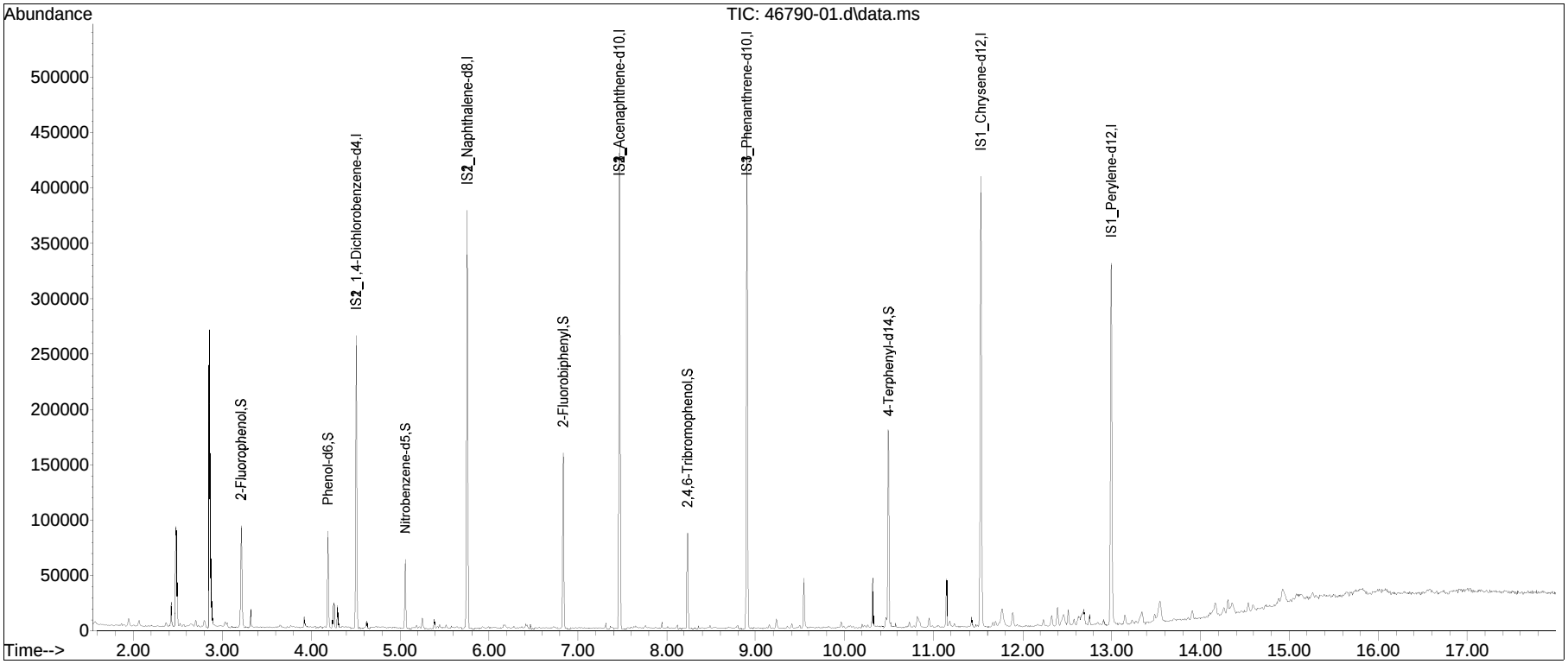
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201028lvi\
Data File : 46790-01.d
Acq On : 29 Oct 2020 4:25 am
Operator : SV124:jg
Sample : L2046790-01,32,,NY-LVI,ASK+
Misc : WG1426005,WG1427424,ICAL17255
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 29 14:00:12 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 13:28:14 2020
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA91028.d•



Manual Integration Report

Data Path	: I:\8270\SV124\201028lvi\	QMethod	: FS201012SV124.m
Data File	: 46790-01.d	Operator	: SV124:jg
Date Inj'd	: 10/29/2020 4:25 am	Instrument	: SV 124
Sample	: L2046790-01,32,,NY-LVI,ASK	Quant Date	: 10/29/2020 1:29 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201028lvi\
Data File : 46790-04.d
Acq On : 29 Oct 2020 4:48 am
Operator : SV124:jg
Sample : L2046790-04,32,,NY-LVI,ASK+
Misc : WG1426005,WG1427424,ICAL17255
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 29 14:02:09 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 13:28:14 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201028lvi\ABN1028.d
: 2 - I:\8270\SV124\201028lvi\ADP1028.d
: 3 - I:\8270\SV124\201028lvi\AP91028.d
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.507	150	66563	4.000	ug/ml	0.00
Standard Area 1 = 71509			Recovery = 93.08%			
27) IS2_1,4-Dichlorobenzen...	4.507	150	66563	4.000	ug/ml	0.00
Standard Area 3 = 63930			Recovery = 104.12%			
34) IS1_Naphthalene-d8	5.754	136	165516	4.000	ug/ml	0.00
Standard Area 1 = 170374			Recovery = 97.15%			
54) IS2_Naphthalene-d8	5.754	136	165516	4.000	ug/ml	0.00
Standard Area 3 = 162378			Recovery = 101.93%			
62) IS1_Acenaphthene-d10	7.466	164	86939	4.000	ug/ml	0.00
Standard Area 1 = 94617			Recovery = 91.89%			
82) IS2_Acenaphthene-d10	7.466	164	86939	4.000	ug/ml	0.00
Standard Area 3 = 87701			Recovery = 99.13%			
85) IS3_Acenaphthene-d10	7.466	164	86939	4.000	ug/ml	0.00
Standard Area 2 = 75844			Recovery = 114.63%			
87) IS1_Phenanthrene-d10	8.901	188	167868	4.000	ug/ml	0.00
Standard Area 1 = 179611			Recovery = 93.46%			
99) IS3_Phenanthrene-d10	8.901	188	167868	4.000	ug/ml	0.00
Standard Area 2 = 154615			Recovery = 108.57%			
103) IS1_Chrysene-d12	11.536	240	148796	4.000	ug/ml	0.00
Standard Area 1 = 190256			Recovery = 78.21%			
112) IS1_Perylene-d12	13.001	264	150254	4.000	ug/ml	0.00
Standard Area 1 = 196697			Recovery = 76.39%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.213	112	32366	3.005	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 60.10%			
7) Phenol-d6	4.195	99	33738	2.584	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 51.68%			
19) Nitrobenzene-d5	5.060	82	22605	1.786	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 71.44%			
45) 2-Fluorobiphenyl	6.836	172	61314	1.838	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 73.52%			
78) 2,4,6-Tribromophenol	8.236	330	13016	2.783	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 55.66%			
95) 4-Terphenyl-d14	10.495	244	78768	1.987	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 79.48%			

Data Path : I:\8270\SV124\201028lvi\
Data File : 46790-04.d
Acq On : 29 Oct 2020 4:48 am
Operator : SV124:jg
Sample : L2046790-04,32,,NY-LVI,ASK+
Misc : WG1426005,WG1427424,ICAL17255
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 29 14:02:09 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 13:28:14 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201028lvi\ABN1028.d
: 2 - I:\8270\SV124\201028lvi\ADP1028.d
: 3 - I:\8270\SV124\201028lvi\AP91028.d
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
8) Phenol	0.000		0		N.D.	
15) 2-Methylphenol	0.000		0		N.D.	
18) 3-Methylphenol/4-Methy...	0.000		0		N.D.	
66) Dibenzofuran	0.000		0		N.D.	

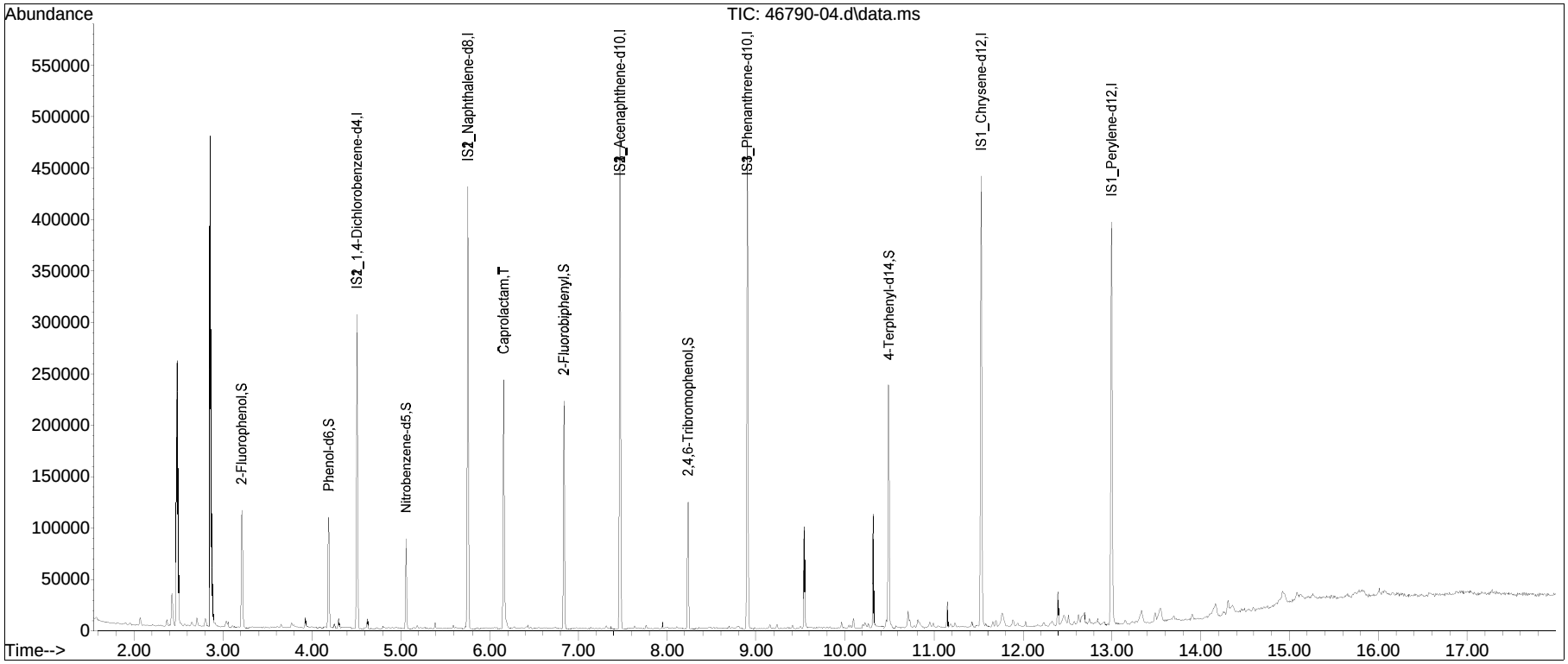
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201028lvi\
Data File : 46790-04.d
Acq On : 29 Oct 2020 4:48 am
Operator : SV124:jg
Sample : L2046790-04,32,,NY-LVI,ASK+
Misc : WG1426005,WG1427424,ICAL17255
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 29 14:02:09 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 13:28:14 2020
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MA91028.d•



Manual Integration Report

Data Path	: I:\8270\SV124\201028lvi\	QMethod	: FS201012SV124.m
Data File	: 46790-04.d	Operator	: SV124:jg
Date Inj'd	: 10/29/2020 4:48 am	Instrument	: SV 124
Sample	: L2046790-04,32,,NY-LVI,ASK	Quant Date	: 10/29/2020 1:30 pm

There are no manual integrations or false positives in this file.

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Impact Environmental**	**Lab Number**	**: L2046790**
Project Name	**: 13-12 BEACH CHANNEL DRIVE**	**Project Number**	**: 15209**
Instrument ID	**: SV124**	**Ical Ref**	**: ICAL17255**
Calibration dates	**: 10/12/20 14:34 10/13/20 02:56**		

Calibration Files
L1 =AP9L1.d L2 =AP9L2.d L3 =AP9L3.d L4 =AP9L4.d L5 =AP9L5.d L6 =AP9L6.d L7 =AP9L7.d
L8 =AP9L8.d L9 =AP9L9.d L10 =ABNL10.d

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------											
2)	t	N-Nitrosodimethylamine		0.390	0.419	0.444	0.423	0.398	0.431	0.423	0.375	0.357	0.407	7.01
3)	t	Pyridine		0.694	0.690	0.759	0.708	0.695	0.752	0.721	0.659	0.634	0.701	5.71
4)	S	2-Fluorophenol	0.621	0.666	0.649	0.699	0.656	0.628	0.690	0.669	0.607	0.590	0.647	5.47
5)	T	Aniline		1.004	1.083	1.156	1.126	1.069	1.153	1.128	1.032	1.026	1.086	5.26
6)	t	2-Chlorophenol		0.714	0.742	0.790	0.793	0.753	0.815	0.801	0.724	0.711	0.760	5.27
7)	S	Phenol-d6	0.706	0.709	0.781	0.838	0.809	0.780	0.852	0.842	0.771	0.759	0.785	6.58
8)	T	Phenol		0.856	0.945	1.022	0.994	0.931	1.028	0.996	0.919	0.901	0.955	6.17
9)	T	bis(2-Chloroethyl)ether		0.728	0.719	0.754	0.732	0.677	0.728	0.710	0.640	0.623	0.701	6.37
10)	T	1,3-Dichlorobenzene		0.938	0.954	0.997	0.926	0.886	0.944	0.905	0.815	0.796	0.907	7.19
11)	T	1,4-Dichlorobenzene		0.936	0.965	0.992	0.933	0.904	0.964	0.914	0.830	0.801	0.915	6.89
12)	T	1,2-Dichlorobenzene		0.927	0.937	0.958	0.920	0.862	0.919	0.898	0.793	0.782	0.888	7.11
13)	t	Benzyl alcohol		0.469	0.528	0.587	0.571	0.559	0.613	0.612	0.578	0.565	0.565	7.86
14)	T	bis(2-chloroisopropyl)ether	1.041	1.038	1.063	1.147	1.105	1.029	1.132	1.091	0.987	0.953	1.059	5.83
15)	T	2-Methylphenol		0.597	0.634	0.678	0.678	0.652	0.719	0.696	0.631	0.621	0.656	5.99
16)	T	Hexachloroethane		0.360	0.363	0.375	0.359	0.334	0.365	0.351	0.324	0.319	0.350	5.65
17)	T	n-Nitrosodi-n-propylamine		0.425	0.457	0.522	0.486	0.487	0.551	0.533	0.502	0.493	0.495	7.74
18)	T	3-Methylphenol/4-Methylphenol		0.597	0.648	0.755	0.717	0.697	0.768	0.735	0.680	0.666	0.696	7.86
19)	S	Nitrobenzene-d5	0.703	0.694	0.731	0.791	0.796	0.761	0.830	0.822	0.752	0.723	0.760	6.33
20)	T	Nitrobenzene		0.692	0.727	0.802	0.780	0.751	0.832	0.808	0.738	0.711	0.760	6.29
21)	T	Isophorone	1.134	1.106	1.211	1.431	1.383	1.362	1.554	1.516	1.418	1.366	1.348	11.27
22)	T	2-Nitrophenol				0.378	0.379	0.367	0.429	0.426	0.398	0.376	0.393	6.38
23)	T	2,4-Dimethylphenol	0.673	0.646	0.709	0.818	0.766	0.752	0.832	0.811	0.743	0.723	0.747	8.28
24)	T	bis(2-Chloroethoxy)methane		0.834	0.920	1.017	0.978	0.912	1.005	0.955	0.886	0.844	0.928	7.13
25)	T	2,4-Dichlorophenol		0.570	0.618	0.723	0.694	0.679	0.736	0.714	0.644	0.629	0.668	8.33
26)	T	1,2,4-Trichlorobenzene		0.781	0.809	0.843	0.810	0.756	0.800	0.774	0.693	0.667	0.770	7.44
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------											
28)	T	Benzaldehyde			0.561	0.585	0.587	0.603	0.636	0.630	0.648	0.677	0.616	6.21
29)	T	Acetophenone			0.942	0.978	1.021	1.013	1.100	1.110	1.143	1.186	1.062	8.05
30)	T	m-Toluidine			0.940	1.013	1.053	1.096	1.180	1.183	1.229	1.272	1.121	10.19
31)	T	2-Chloroaniline		0.928	0.953	0.977	0.991	1.019	1.081	1.079	1.084	1.133	1.027	6.81
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------											
33)	T	n-Decane	0.765	0.744	0.739	0.756	0.749	0.759	0.770	0.779	0.808	0.817	0.769	3.40
34)	I	IS1_Naphthalene-d8	----------ISTD----------											
35)	T	Naphthalene		0.981	1.006	1.127	1.050	1.023	1.025	1.024	1.026	1.049	1.035	3.92
36)	T	Benzoic Acid					0.163	0.177	0.210	0.235	0.254	0.253	*L	0.9962

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Impact Environmental**	**Lab Number**	**: L2046790**
Project Name	**: 13-12 BEACH CHANNEL DRIVE**	**Project Number**	**: 15209**
Instrument ID	**: SV124**	**Ical Ref**	**: ICAL17255**
Calibration dates	**: 10/12/20 14:34 10/13/20 02:56**		

Calibration Files

L1 =AP9L1.d L2 =AP9L2.d L3 =AP9L3.d L4 =AP9L4.d L5 =AP9L5.d L6 =AP9L6.d L7 =AP9L7.d

L8 =AP9L8.d L9 =AP9L9.d L10 =ABNL10.d

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
37)	T	4-Chloroaniline			0.106	0.122	0.114	0.114	0.116	0.122	0.122	0.125	0.118	5.34
38)	T	Hexachlorobutadiene		0.184	0.189	0.204	0.190	0.190	0.188	0.192	0.190	0.195	0.191	2.85
39)	T	p-Chloro-m-cresol		0.196	0.240	0.285	0.266	0.267	0.280	0.294	0.299	0.307	0.271	12.71
40)	T	2-Methylnaphthalene		0.646	0.662	0.753	0.703	0.702	0.703	0.721	0.722	0.734	0.705	4.74
41)	T	1-Methylnaphthalene		0.217	0.219	0.251	0.232	0.235	0.236	0.242	0.247	0.254	0.237	5.55
42)	T	Hexachlorocyclopentadiene			0.232	0.252	0.246	0.244	0.252	0.261	0.266	0.275	0.253	5.36
43)	T	2,4,6-Trichlorophenol			0.177	0.209	0.200	0.208	0.220	0.228	0.241	0.243	0.216	10.24
44)	T	2,4,5-Trichlorophenol			0.194	0.242	0.231	0.236	0.238	0.244	0.242	0.244	0.234	7.18
45)	S	2-Fluorobiphenyl	0.789	0.767	0.792	0.886	0.814	0.795	0.800	0.815	0.801	0.805	0.806	3.85
46)	T	2-Chloronaphthalene	0.607	0.627	0.680	0.738	0.697	0.672	0.671	0.682	0.681	0.685	0.674	5.35
47)	T	2-Nitroaniline			0.143	0.178	0.173	0.184	0.199	0.210	0.221	0.226	0.192	14.49
48)	T	1,4-Dinitrobenzene					0.089	0.096	0.102	0.107	0.113	0.115	0.104	9.81
49)	T	1,3-Dinitrobenzene				0.106	0.104	0.110	0.122	0.125	0.129	0.130	0.118	9.37
50)	T	Dimethyl phthalate	0.700	0.688	0.732	0.877	0.836	0.817	0.821	0.833	0.836	0.833	0.797	8.19
51)	T	Acenaphthylene	0.860	0.886	0.992	1.169	1.103	1.107	1.127	1.133	1.134	1.141	1.065	10.48
52)	T	2,6-Dinitrotoluene			0.125	0.161	0.158	0.167	0.174	0.176	0.178	0.178	0.165	10.66
53)	T	1,2-Dinitrobenzene				0.077	0.075	0.075	0.078	0.080	0.081	0.083	0.078	3.95
54)	I	IS2_Naphthalene-d8	----------ISTD----------											
55)	T	a-Terpineol		0.187	0.192	0.206	0.212	0.225	0.245	0.257	0.273	0.286	0.232	15.40
56)	T	3-Chloroaniline				0.120	0.125	0.127	0.137	0.138	0.139	0.147	0.133	6.94
57)	T	2,6-Dichlorophenol			0.224	0.238	0.240	0.253	0.282	0.288	0.286	0.300	0.264	10.77
58)	T	1-chloro-2-nitrobenzene			0.116	0.115	0.123	0.126	0.135	0.136	0.140	0.145	0.130	8.79
59)	T	Caprolactam				0.078	0.089	0.099	0.115	0.125	0.133	0.140	*L	0.9981
60)	T	1,2,4,5-Tetrachlorobenzene			0.330	0.336	0.331	0.339	0.343	0.342	0.332	0.342	0.337	1.56
61)	T	Biphenyl		0.835	0.843	0.840	0.862	0.868	0.886	0.891	0.867	0.891	0.865	2.53
62)	I	IS1_Acenaphthene-d10	----------ISTD----------											
63)	T	3-Nitroaniline			0.266	0.310	0.320	0.332	0.340	0.363	0.353	0.362	0.331	9.72
64)	T	Acenaphthene		1.144	1.164	1.282	1.204	1.166	1.166	1.188	1.163	1.188	1.185	3.43
65)	T	2,4-Dinitrophenol					0.147	0.158	0.181	0.196	0.215	0.218	*L	0.9988
66)	T	Dibenzofuran		1.755	1.781	2.008	1.859	1.794	1.772	1.825	1.771	1.796	1.818	4.28
67)	T	2,4-Dinitrotoluene			0.301	0.406	0.382	0.401	0.421	0.438	0.441	0.444	0.404	11.69
68)	T	4-Nitrophenol				0.225	0.230	0.237	0.253	0.269	0.272	0.278	0.252	8.59
69)	T	2,3,5,6-Tetrachlorophenol				0.364	0.348	0.347	0.365	0.377	0.376	0.384	0.366	3.90
70)	T	2,3,4,6-Tetrachlorophenol			0.300	0.360	0.341	0.350	0.366	0.368	0.359	0.370	0.352	6.50
71)	T	Diethyl phthalate	1.195	1.272	1.351	1.555	1.517	1.482	1.527	1.559	1.562	1.579	1.460	9.38
72)	T	Fluorene	1.287	1.281	1.342	1.509	1.414	1.399	1.388	1.430	1.399	1.408	1.386	4.91

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Impact Environmental**	**Lab Number**	**: L2046790**
Project Name	**: 13-12 BEACH CHANNEL DRIVE**	**Project Number**	**: 15209**
Instrument ID	**: SV124**	**Ical Ref**	**: ICAL17255**
Calibration dates	**: 10/12/20 14:34 10/13/20 02:56**		

Calibration Files
L1 =AP9L1.d L2 =AP9L2.d L3 =AP9L3.d L4 =AP9L4.d L5 =AP9L5.d L6 =AP9L6.d L7 =AP9L7.d
L8 =AP9L8.d L9 =AP9L9.d L10 =ABNL10.d

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD	
73)	T	4-Chlorophenyl-phenylether		0.645	0.702	0.758	0.702	0.673	0.673	0.675	0.666	0.663	0.684	4.86	
74)	T	4-Nitroaniline			0.252	0.318	0.313	0.321	0.348	0.365	0.348	0.354	0.327	10.94	
75)	T	4,6-Dinitro-o-cresol				0.193	0.187	0.199	0.224	0.241	0.253	0.257		*L	0.9940
76)	T	NDPA/DPA	1.010	1.006	1.051	1.290	1.201	1.192	1.203	1.229	1.195	1.208	1.159	8.52	
77)	T	Azobenzene		1.054	1.212	1.429	1.379	1.378	1.412	1.455	1.443	1.488	1.361	10.26	
78)	S	2,4,6-Tribromophenol	0.128	0.137	0.172	0.227	0.210	0.213	0.222	0.234	0.233	0.236		*L	0.9922
79)	T	4-Bromophenyl-phenylether	0.405	0.385	0.391	0.450	0.409	0.399	0.402	0.411	0.404	0.415	0.407	4.31	
80)	T	Hexachlorobenzene	0.479	0.481	0.466	0.512	0.477	0.467	0.458	0.469	0.455	0.468	0.473	3.41	
81)	T	Pentachlorophenol				0.260	0.255	0.269	0.285	0.297	0.308	0.320	0.285	8.58	
82)	I	IS2_Acenaphthene-d10	----------ISTD----------												
83)	T	Dichloran				0.107	0.108	0.125	0.147	0.155	0.182	0.193		*L	0.9944
84)	T	Pentachloronitrobenzene			0.120	0.130	0.145	0.164	0.181	0.179	0.194	0.206		*L	0.9921
85)	I	IS3_Acenaphthene-d10	----------ISTD----------												
86)	T	Atrazine		0.212	0.244	0.258	0.265	0.285	0.330	0.352	0.376	0.393		*Q	0.9962
87)	I	IS1_Phenanthrene-d10	----------ISTD----------												
88)	T	Phenanthrene		1.058	1.101	1.225	1.177	1.133	1.123	1.109	1.107	1.115	1.128	4.26	
89)	T	Anthracene	0.946	0.951	1.003	1.187	1.123	1.100	1.123	1.131	1.135	1.157	1.086	7.99	
90)	T	Carbazole		0.785	0.861	1.051	1.017	1.000	1.011	1.031	1.037	1.045	0.982	9.53	
91)	T	Di-n-butylphthalate			0.913	1.138	1.154	1.180	1.312	1.327	1.420	1.456	1.238	14.31	
92)	T	Fluoranthene	1.037	1.000	1.049	1.250	1.203	1.203	1.213	1.237	1.250	1.280	1.172	8.75	
93)	T	Benzidine					0.691	0.726	0.833	0.865	0.920	0.955	0.832	12.62	
94)	T	Pyrene	1.087	1.007	1.124	1.353	1.327	1.284	1.276	1.293	1.295	1.310	1.235	9.56	
95)	S	4-Terphenyl-d14	0.846	0.819	0.872	1.056	0.986	0.957	0.969	0.970	0.974	0.999	0.945	7.91	
96)	T	Butyl benzyl phthalate			0.304	0.388	0.410	0.450	0.511	0.546	0.619	0.646		*Q	0.9996
97)	I	IS2_Phenanthrene-d10	----------ISTD----------												
98)	T	Diphenamid				0.325	0.354	0.395	0.457	0.471	0.501	0.547		*L	0.9971
99)	I	IS3_Phenanthrene-d10	----------ISTD----------												
100)	T	n-Octadecane			0.292	0.318	0.344	0.364	0.397	0.400	0.436	0.458	0.376	15.24	
101)	T	Parathion			0.048	0.054	0.055	0.060	0.075	0.083	0.113	0.123		*Q	0.9984
102)	T	3,3'-Dimethylbenzidine			0.343	0.366	0.407	0.445	0.548	0.595	0.707	0.718		*Q	0.9980
103)	I	IS1_Chrysene-d12	----------ISTD----------												
104)	T	Benzo[a]anthracene	1.069	1.018	1.111	1.253	1.220	1.173	1.218	1.246	1.221	1.231	1.176	6.95	
105)	T	3,3'-Dichlorobenzidine			0.347	0.432	0.416	0.432	0.468	0.486	0.485	0.497	0.445	11.14	
106)	T	Chrysene	1.257	1.230	1.216	1.336	1.235	1.192	1.174	1.167	1.117	1.124	1.205	5.43	
107)	T	bis(2-Ethylhexyl)phthalate		0.449	0.499	0.663	0.691	0.732	0.844	0.867	0.938	0.946		*Q	0.9989
108)	T	Di-n-octylphthalate			0.731	0.922	0.985	1.067	1.307	1.395	1.570	1.627		*Q	0.9968

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Impact Environmental**	**Lab Number**	**: L2046790**
Project Name	**: 13-12 BEACH CHANNEL DRIVE**	**Project Number**	**: 15209**
Instrument ID	**: SV124**	**Ical Ref**	**: ICAL17255**
Calibration dates	**: 10/12/20 14:34 10/13/20 02:56**		

Calibration Files

L1 =AP9L1.d L2 =AP9L2.d L3 =AP9L3.d L4 =AP9L4.d L5 =AP9L5.d L6 =AP9L6.d L7 =AP9L7.d

L8 =AP9L8.d L9 =AP9L9.d L10 =ABNL10.d

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
109)	T	Benzo(b)fluoranthene		1.075	1.134	1.345	1.284	1.247	1.234	1.229	1.188	1.315	1.228	6.95
110)	T	Benzo(k)fluoranthene		0.928	1.000	1.161	1.143	1.079	1.132	1.143	1.096	1.034	1.079	7.25
111)	T	Benzo(a)pyrene		0.771	0.845	1.022	1.017	0.999	1.038	1.044	1.032	1.058	0.981	10.30
112)	I	IS1_Perylene-d12	----------ISTD----------											
113)	T	Indeno(1,2,3-cd)pyrene		0.898	0.930	1.137	1.081	1.074	1.137	1.167	1.176	1.278	1.097	10.94
114)	T	Dibenzo[a,h]anthracene		0.968	1.038	1.218	1.153	1.147	1.193	1.198	1.195	1.227	1.148	7.67
115)	T	Benzo(g,h,i)perylene	1.062	1.014	1.062	1.245	1.167	1.133	1.163	1.175	1.166	1.182	1.137	6.14

Response Factor Report SV 124

Method Path : I:\8270\SV124\201012ical\
Method File : FS201012SV124.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Oct 15 15:41:06 2020
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.d L2 =AP9L2.d L3 =AP9L3.d L4 =AP9L4.d L5 =AP9L5.d L6 =AP9L6.d L7 =AP9L7.d
L8 =AP9L8.d L9 =AP9L9.d L10 =ABNL10.d

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	ISTD											
2)	t	N-Nitrosodimethylamine		0.390	0.419	0.444	0.423	0.398	0.431	0.423	0.375	0.357	0.407	7.01
3)	t	Pyridine		0.694	0.690	0.759	0.708	0.695	0.752	0.721	0.659	0.634	0.701	5.71
4)	S	2-Fluorophenol	0.621	0.666	0.649	0.699	0.656	0.628	0.690	0.669	0.607	0.590	0.647	5.47
5)	T	Aniline		1.004	1.083	1.156	1.126	1.069	1.153	1.128	1.032	1.026	1.086	5.26
6)	t	2-Chlorophenol		0.714	0.742	0.790	0.793	0.753	0.815	0.801	0.724	0.711	0.760	5.27
7)	S	Phenol-d6	0.706	0.709	0.781	0.838	0.809	0.780	0.852	0.842	0.771	0.759	0.785	6.58
8)	T	Phenol		0.856	0.945	1.022	0.994	0.931	1.028	0.996	0.919	0.901	0.955	6.17
9)	T	bis(2-Chloroethyl)ether		0.728	0.719	0.754	0.732	0.677	0.728	0.710	0.640	0.623	0.701	6.37
10)	T	1,3-Dichlorobenzene		0.938	0.954	0.997	0.926	0.886	0.944	0.905	0.815	0.796	0.907	7.19
11)	T	1,4-Dichlorobenzene		0.936	0.965	0.992	0.933	0.904	0.964	0.914	0.830	0.801	0.915	6.89
12)	T	1,2-Dichlorobenzene		0.927	0.937	0.958	0.920	0.862	0.919	0.898	0.793	0.782	0.888	7.11
13)	t	Benzyl alcohol		0.469	0.528	0.587	0.571	0.559	0.613	0.612	0.578	0.565	0.565	7.86
14)	T	bis(2-chloroisopropyl)ether	1.041	1.038	1.063	1.147	1.105	1.029	1.132	1.091	0.987	0.953	1.059	5.83
15)	T	2-Methylphenol		0.597	0.634	0.678	0.678	0.652	0.719	0.696	0.631	0.621	0.656	5.99
16)	T	Hexachloroethane		0.360	0.363	0.375	0.359	0.334	0.365	0.351	0.324	0.319	0.350	5.65
17)	T	n-Nitrosodi-n-propylamine		0.425	0.457	0.522	0.486	0.487	0.551	0.533	0.502	0.493	0.495	7.74
18)	T	3-Methylphenol/4-Methylphenol		0.597	0.648	0.755	0.717	0.697	0.768	0.735	0.680	0.666	0.696	7.86
19)	S	Nitrobenzene-d5	0.703	0.694	0.731	0.791	0.796	0.761	0.830	0.822	0.752	0.723	0.760	6.33
20)	T	Nitrobenzene		0.692	0.727	0.802	0.780	0.751	0.832	0.808	0.738	0.711	0.760	6.29
21)	T	Isophorone	1.134	1.106	1.211	1.431	1.383	1.362	1.554	1.516	1.418	1.366	1.348	11.27
22)	T	2-Nitrophenol				0.378	0.379	0.367	0.429	0.426	0.398	0.376	0.393	6.38
23)	T	2,4-Dimethylphenol	0.673	0.646	0.709	0.818	0.766	0.752	0.832	0.811	0.743	0.723	0.747	8.28
24)	T	bis(2-Chloroethoxy)methane		0.834	0.920	1.017	0.978	0.912	1.005	0.955	0.886	0.844	0.928	7.13
25)	T	2,4-Dichlorophenol		0.570	0.618	0.723	0.694	0.679	0.736	0.714	0.644	0.629	0.668	8.33
26)	T	1,2,4-Trichlorobenzene		0.781	0.809	0.843	0.810	0.756	0.800	0.774	0.693	0.667	0.770	7.44
27)	I	IS2_1,4-Dichlorobenzene-d4	ISTD											
28)	T	Benzaldehyde				0.561	0.585	0.587	0.603	0.636	0.630	0.648	0.677	0.616	6.21
29)	T	Acetophenone				0.942	0.978	1.021	1.013	1.100	1.110	1.143	1.186	1.062	8.05
30)	T	m-Toluidine				0.940	1.013	1.053	1.096	1.180	1.183	1.229	1.272	1.121	10.19
31)	T	2-Chloroaniline		0.928	0.953	0.977	0.991	1.019	1.081	1.079	1.084	1.133	1.027	6.81
32)	I	IS3_1,4-Dichlorobenzene-d4	ISTD											
33)	T	n-Decane	0.765	0.744	0.739	0.756	0.749	0.759	0.770	0.779	0.808	0.817	0.769	3.40
34)	I	IS1_Naphthalene-d8	ISTD											
35)	T	Naphthalene		0.981	1.006	1.127	1.050	1.023	1.025	1.024	1.026	1.049	1.035	3.92
36)	T	Benzoic Acid					0.163	0.177	0.210	0.235	0.254	0.253	*L	0.9962
37)	T	4-Chloroaniline				0.106	0.122	0.114	0.114	0.116	0.122	0.122	0.125	0.118	5.34
38)	T	Hexachlorobutadiene		0.184	0.189	0.204	0.190	0.190	0.188	0.192	0.190	0.195	0.191	2.85
39)	T	p-Chloro-m-cresol		0.196	0.240	0.285	0.266	0.267	0.280	0.294	0.299	0.307	0.271	12.71
40)	T	2-Methylnaphthalene		0.646	0.662	0.753	0.703	0.702	0.703	0.721	0.722	0.734	0.705	4.74
41)	T	1-Methylnaphthalene		0.217	0.219	0.251	0.232	0.235	0.236	0.242	0.247	0.254	0.237	5.55
42)	T	Hexachlorocyclopentadiene				0.232	0.252	0.246	0.244	0.252	0.261	0.266	0.275	0.253	5.36
43)	T	2,4,6-Trichlorophenol				0.177	0.209	0.200	0.208	0.220	0.228	0.241	0.243	0.216	10.24
44)	T	2,4,5-Trichlorophenol				0.194	0.242	0.231	0.236	0.238	0.244	0.242	0.244	0.234	7.18
45)	S	2-Fluorobiphenyl	0.789	0.767	0.792	0.886	0.814	0.795	0.800	0.815	0.801	0.805	0.806	3.85

Response Factor Report SV 124

Method Path : I:\8270\SV124\201012ical\
Method File : FS201012SV124.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Oct 15 15:41:06 2020
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.d L2 =AP9L2.d L3 =AP9L3.d L4 =AP9L4.d L5 =AP9L5.d L6 =AP9L6.d L7 =AP9L7.d
L8 =AP9L8.d L9 =AP9L9.d L10 =ABNL10.d

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD	
46)	T	2-Chloronaphthalene	0.607	0.627	0.680	0.738	0.697	0.672	0.671	0.682	0.681	0.685	0.674	5.35	
47)	T	2-Nitroaniline			0.143	0.178	0.173	0.184	0.199	0.210	0.221	0.226	0.192	14.49	
48)	T	1,4-Dinitrobenzene					0.089	0.096	0.102	0.107	0.113	0.115	0.104	9.81	
49)	T	1,3-Dinitrobenzene				0.106	0.104	0.110	0.122	0.125	0.129	0.130	0.118	9.37	
50)	T	Dimethyl phthalate	0.700	0.688	0.732	0.877	0.836	0.817	0.821	0.833	0.836	0.833	0.797	8.19	
51)	T	Acenaphthylene	0.860	0.886	0.992	1.169	1.103	1.107	1.127	1.133	1.134	1.141	1.065	10.48	
52)	T	2,6-Dinitrotoluene			0.125	0.161	0.158	0.167	0.174	0.176	0.178	0.178	0.165	10.66	
53)	T	1,2-Dinitrobenzene				0.077	0.075	0.075	0.078	0.080	0.081	0.083	0.078	3.95	
54)	I	IS2_Naphthalene-d8	----------ISTD----------												
55)	T	a-Terpineol		0.187	0.192	0.206	0.212	0.225	0.245	0.257	0.273	0.286	0.232	15.40	
56)	T	3-Chloroaniline				0.120	0.125	0.127	0.137	0.138	0.139	0.147	0.133	6.94	
57)	T	2,6-Dichlorophenol			0.224	0.238	0.240	0.253	0.282	0.288	0.286	0.300	0.264	10.77	
58)	T	1-chloro-2-nitrobenzene			0.116	0.115	0.123	0.126	0.135	0.136	0.140	0.145	0.130	8.79	
59)	T	Caprolactam				0.078	0.089	0.099	0.115	0.125	0.133	0.140	*L	0.9981	
60)	T	1,2,4,5-Tetrachlorobenzene			0.330	0.336	0.331	0.339	0.343	0.342	0.332	0.342	0.337	1.56	
61)	T	Biphenyl		0.835	0.843	0.840	0.862	0.868	0.886	0.891	0.867	0.891	0.865	2.53	
62)	I	IS1_Acenaphthene-d10	----------ISTD----------												
63)	T	3-Nitroaniline			0.266	0.310	0.320	0.332	0.340	0.363	0.353	0.362	0.331	9.72	
64)	T	Acenaphthene		1.144	1.164	1.282	1.204	1.166	1.166	1.188	1.163	1.188	1.185	3.43	
65)	T	2,4-Dinitrophenol					0.147	0.158	0.181	0.196	0.215	0.218	*L	0.9988	
66)	T	Dibenzofuran		1.755	1.781	2.008	1.859	1.794	1.772	1.825	1.771	1.796	1.818	4.28	
67)	T	2,4-Dinitrotoluene			0.301	0.406	0.382	0.401	0.421	0.438	0.441	0.444	0.404	11.69	
68)	T	4-Nitrophenol				0.225	0.230	0.237	0.253	0.269	0.272	0.278	0.252	8.59	
69)	T	2,3,5,6-Tetrachlorophenol				0.364	0.348	0.347	0.365	0.377	0.376	0.384	0.366	3.90	
70)	T	2,3,4,6-Tetrachlorophenol			0.300	0.360	0.341	0.350	0.366	0.368	0.359	0.370	0.352	6.50	
71)	T	Diethyl phthalate	1.195	1.272	1.351	1.555	1.517	1.482	1.527	1.559	1.562	1.579	1.460	9.38	
72)	T	Fluorene	1.287	1.281	1.342	1.509	1.414	1.399	1.388	1.430	1.399	1.408	1.386	4.91	
73)	T	4-Chlorophenyl-phenylether		0.645	0.702	0.758	0.702	0.673	0.673	0.675	0.666	0.663	0.684	4.86	
74)	T	4-Nitroaniline			0.252	0.318	0.313	0.321	0.348	0.365	0.348	0.354	0.327	10.94	
75)	T	4,6-Dinitro-o-cresol				0.193	0.187	0.199	0.224	0.241	0.253	0.257	*L	0.9940	
76)	T	NDPA/DPA	1.010	1.006	1.051	1.290	1.201	1.192	1.203	1.229	1.195	1.208	1.159	8.52	
77)	T	Azobenzene		1.054	1.212	1.429	1.379	1.378	1.412	1.455	1.443	1.488	1.361	10.26	
78)	S	2,4,6-Tribromophenol	0.128	0.137	0.172	0.227	0.210	0.213	0.222	0.234	0.233	0.236	*L	0.9922	
79)	T	4-Bromophenyl-phenylether	0.405	0.385	0.391	0.450	0.409	0.399	0.402	0.411	0.404	0.415	0.407	4.31	
80)	T	Hexachlorobenzene	0.479	0.481	0.466	0.512	0.477	0.467	0.458	0.469	0.455	0.468	0.473	3.41	
81)	T	Pentachlorophenol				0.260	0.255	0.269	0.285	0.297	0.308	0.320	0.285	8.58	
82)	I	IS2_Acenaphthene-d10	----------ISTD----------												
83)	T	Dichloran				0.107	0.108	0.125	0.147	0.155	0.182	0.193	*L	0.9944	
84)	T	Pentachloronitrobenzene			0.120	0.130	0.145	0.164	0.181	0.179	0.194	0.206	*L	0.9921	
85)	I	IS3_Acenaphthene-d10	----------ISTD----------												
86)	T	Atrazine		0.212	0.244	0.258	0.265	0.285	0.330	0.352	0.376	0.393	*Q	0.9962	
87)	I	IS1_Phenanthrene-d10	----------ISTD----------												
88)	T	Phenanthrene		1.058	1.101	1.225	1.177	1.133	1.123	1.109	1.107	1.115	1.128	4.26	
89)	T	Anthracene	0.946	0.951	1.003	1.187	1.123	1.100	1.123	1.131	1.135	1.157	1.086	7.99	
90)	T	Carbazole		0.785	0.861	1.051	1.017	1.000	1.011	1.031	1.037	1.045	0.982	9.53	

Response Factor Report SV 124

Method Path : I:\8270\SV124\201012ical\
Method File : FS201012SV124.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Oct 15 15:41:06 2020
Response Via : Initial Calibration

Calibration Files
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L8 =AP9L8.d L9 =AP9L9.d L10 =ABNL10.d

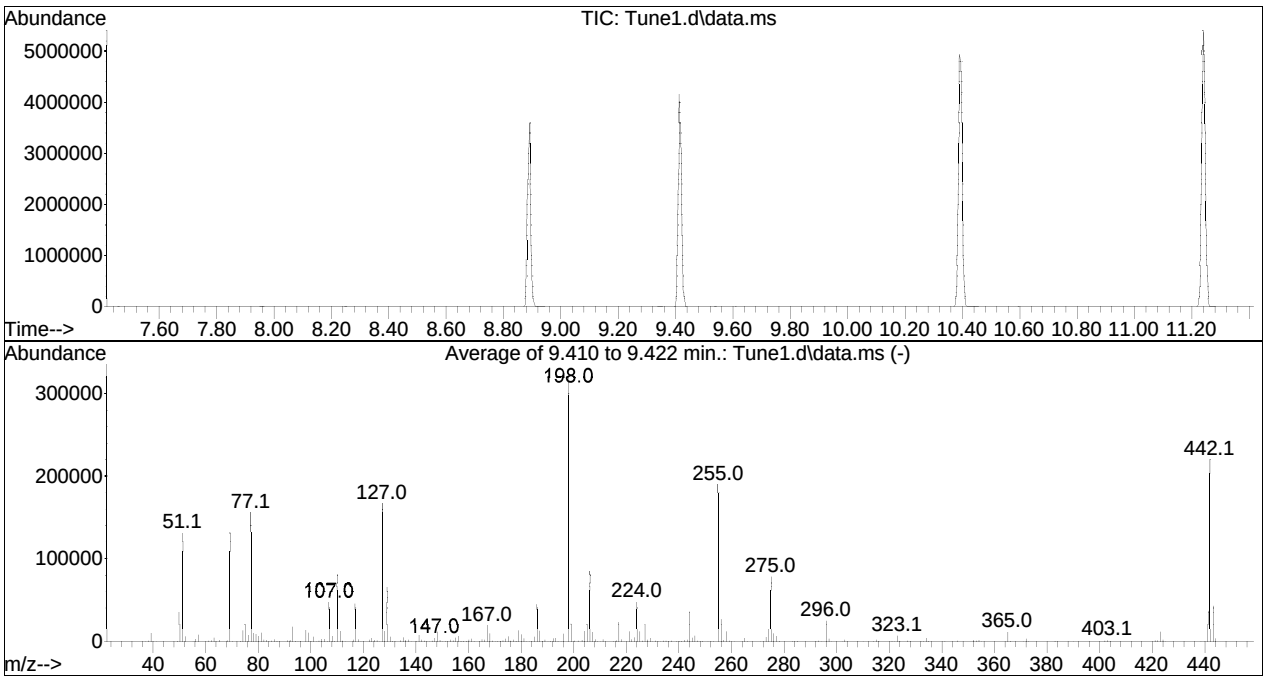
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD	
91)	T	Di-n-butylphthalate			0.913	1.138	1.154	1.180	1.312	1.327	1.420	1.456	1.238	14.31	
92)	T	Fluoranthene	1.037	1.000	1.049	1.250	1.203	1.203	1.213	1.237	1.250	1.280	1.172	8.75	
93)	T	Benzidine					0.691	0.726	0.833	0.865	0.920	0.955	0.832	12.62	
94)	T	Pyrene	1.087	1.007	1.124	1.353	1.327	1.284	1.276	1.293	1.295	1.310	1.235	9.56	
95)	S	4-Terphenyl-d14	0.846	0.819	0.872	1.056	0.986	0.957	0.969	0.970	0.974	0.999	0.945	7.91	
96)	T	Butyl benzyl phthalate			0.304	0.388	0.410	0.450	0.511	0.546	0.619	0.646		*Q	0.9996
97)	I	IS2_Phenanthrene-d10	----------ISTD----------												
98)	T	Diphenamid				0.325	0.354	0.395	0.457	0.471	0.501	0.547		*L	0.9971
99)	I	IS3_Phenanthrene-d10	----------ISTD----------												
100)	T	n-Octadecane			0.292	0.318	0.344	0.364	0.397	0.400	0.436	0.458	0.376	15.24	
101)	T	Parathion			0.048	0.054	0.055	0.060	0.075	0.083	0.113	0.123		*Q	0.9984
102)	T	3,3'-Dimethylbenzidine			0.343	0.366	0.407	0.445	0.548	0.595	0.707	0.718		*Q	0.9980
103)	I	IS1_Chrysene-d12	----------ISTD----------												
104)	T	Benzo[a]anthracene	1.069	1.018	1.111	1.253	1.220	1.173	1.218	1.246	1.221	1.231	1.176	6.95	
105)	T	3,3'-Dichlorobenzidine			0.347	0.432	0.416	0.432	0.468	0.486	0.485	0.497	0.445	11.14	
106)	T	Chrysene	1.257	1.230	1.216	1.336	1.235	1.192	1.174	1.167	1.117	1.124	1.205	5.43	
107)	T	bis(2-Ethylhexyl)phthalate		0.449	0.499	0.663	0.691	0.732	0.844	0.867	0.938	0.946		*Q	0.9989
108)	T	Di-n-octylphthalate			0.731	0.922	0.985	1.067	1.307	1.395	1.570	1.627		*Q	0.9968
109)	T	Benzo(b)fluoranthene		1.075	1.134	1.345	1.284	1.247	1.234	1.229	1.188	1.315	1.228	6.95	
110)	T	Benzo(k)fluoranthene		0.928	1.000	1.161	1.143	1.079	1.132	1.143	1.096	1.034	1.079	7.25	
111)	T	Benzo(a)pyrene		0.771	0.845	1.022	1.017	0.999	1.038	1.044	1.032	1.058	0.981	10.30	
112)	I	IS1_Perylene-d12	----------ISTD----------												
113)	T	Indeno(1,2,3-cd)pyrene		0.898	0.930	1.137	1.081	1.074	1.137	1.167	1.176	1.278	1.097	10.94	
114)	T	Dibenzo[a,h]anthracene		0.968	1.038	1.218	1.153	1.147	1.193	1.198	1.195	1.227	1.148	7.67	
115)	T	Benzo(g,h,i)perylene	1.062	1.014	1.062	1.245	1.167	1.133	1.163	1.175	1.166	1.182	1.137	6.14	

(#) = Out of Range

Data Path : I:\8270\SV124\201012ical\
Data File : Tune1.d
Acq On : 12 Oct 2020 2:11 pm
Operator : sv124:wr
Sample : TUNE
Misc : wg1422524,,
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV124\201012ical\FS201012SV124.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Oct 15 15:41:06 2020



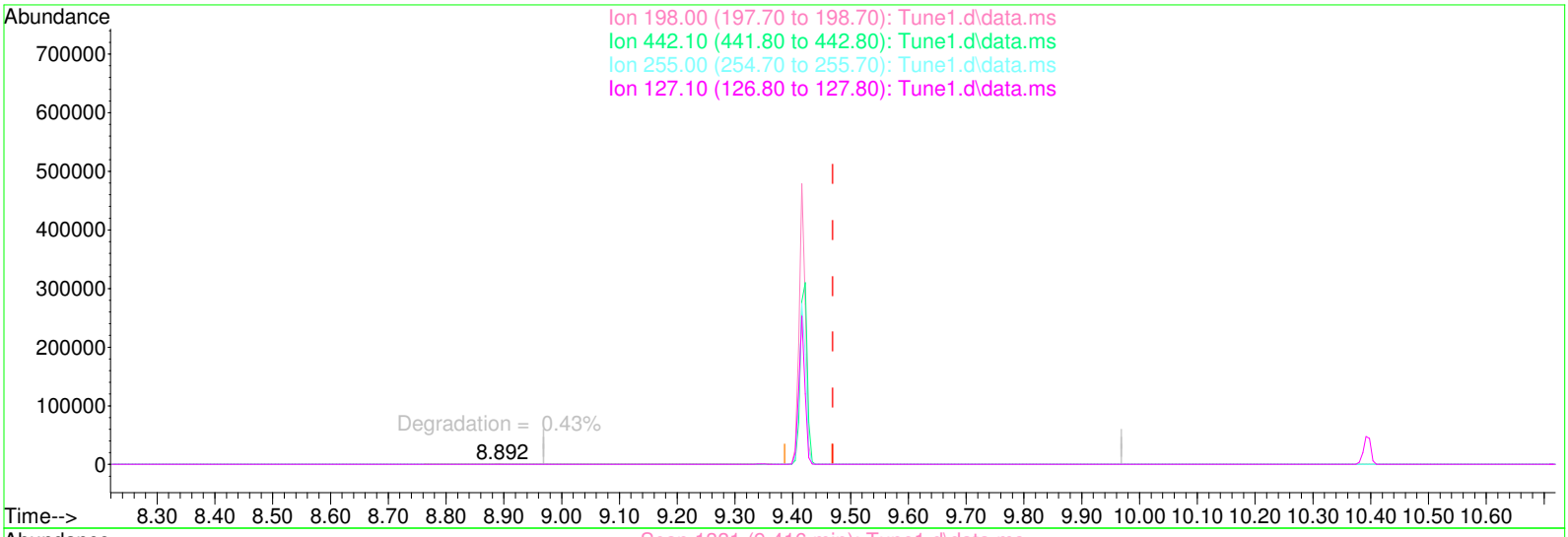
Spectrum Information: Average of 9.410 to 9.422 min.

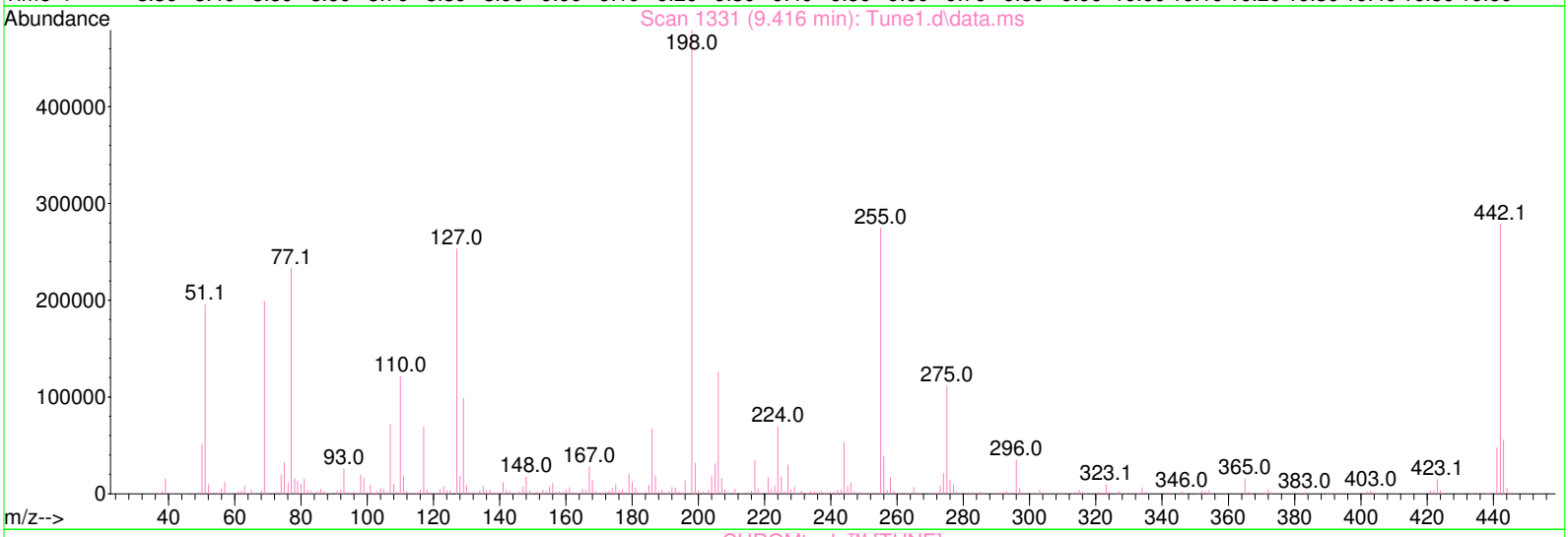
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	41.0	131019	PASS
68	69	0.00	2	1.6	2096	PASS
69	69	100	100	100.0	132048	PASS
70	69	0.00	2	0.5	686	PASS
127	198	10	80	52.2	166667	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	319403	PASS
199	198	5	9	6.7	21303	PASS
275	198	10	60	24.3	77771	PASS
365	198	1	100	3.5	11126	PASS
441	442	0.01	24	16.8	37082	PASS
442	198	50	100	68.9	220163	PASS
443	442	15	24	19.4	42811	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV124\201012ical\
Data File : Tune1.d
Acq On : 12 Oct 2020 2:11 pm
Operator : sv124:wr
Sample : TUNE
Misc : wg1422524,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 15 15:49:36 2020
Quant Method : I:\8270\SV124\201012ical\dftppSV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Aug 24 20:27:27 2020
Response via : Initial Calibration





CHROMtools™ [TUNE]

(2) DFTPP (T)

9.416min (-0.053) 134.15 Lin

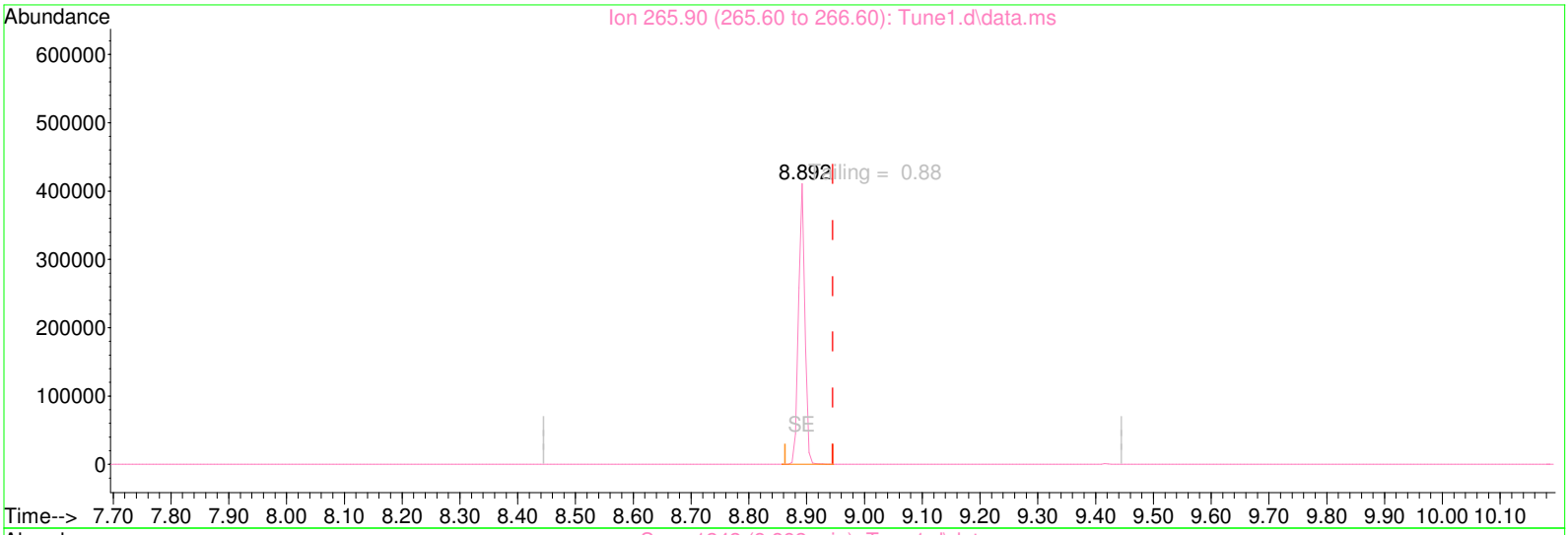
response 359924

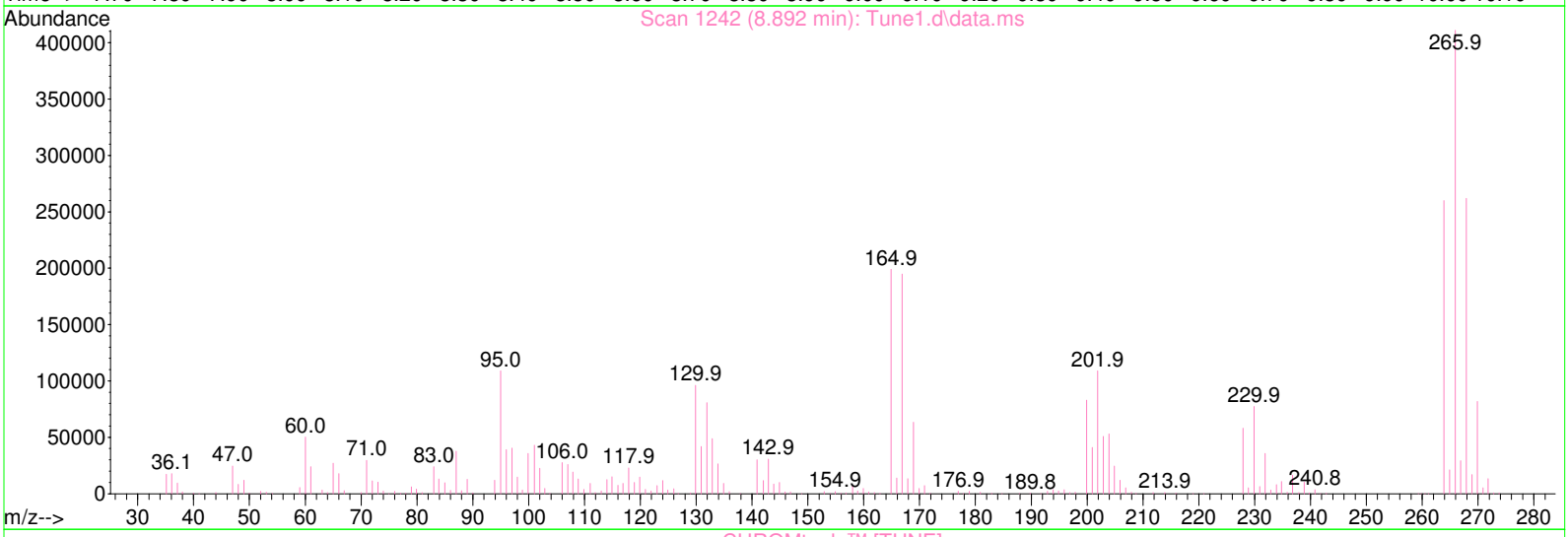
Ion	Exp%	Act%
198.00	100.00	100.00
442.10	67.60	72.97
255.00	60.00	59.61
127.10	51.40	52.27

Quantitation Report (Qedit)

Data Path : I:\8270\SV124\201012ical\
Data File : Tune1.d
Acq On : 12 Oct 2020 2:11 pm
Operator : sv124:wr
Sample : TUNE
Misc : wg1422524,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 15 15:49:36 2020
Quant Method : I:\8270\SV124\201012ical\dftppSV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Aug 24 20:27:27 2020
Response via : Initial Calibration





CHROMtools™ [TUNE]

(1) Pentachlorophenol (T)

8.892min (-0.053) 152.93 Lin

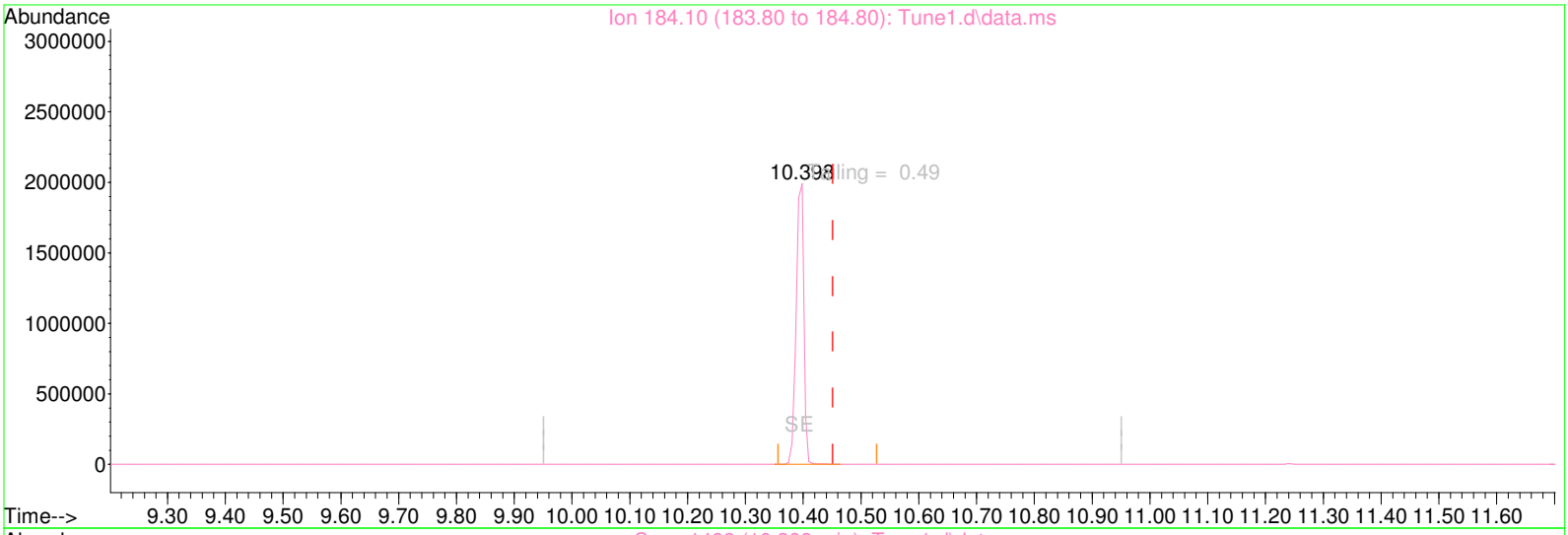
response 321199

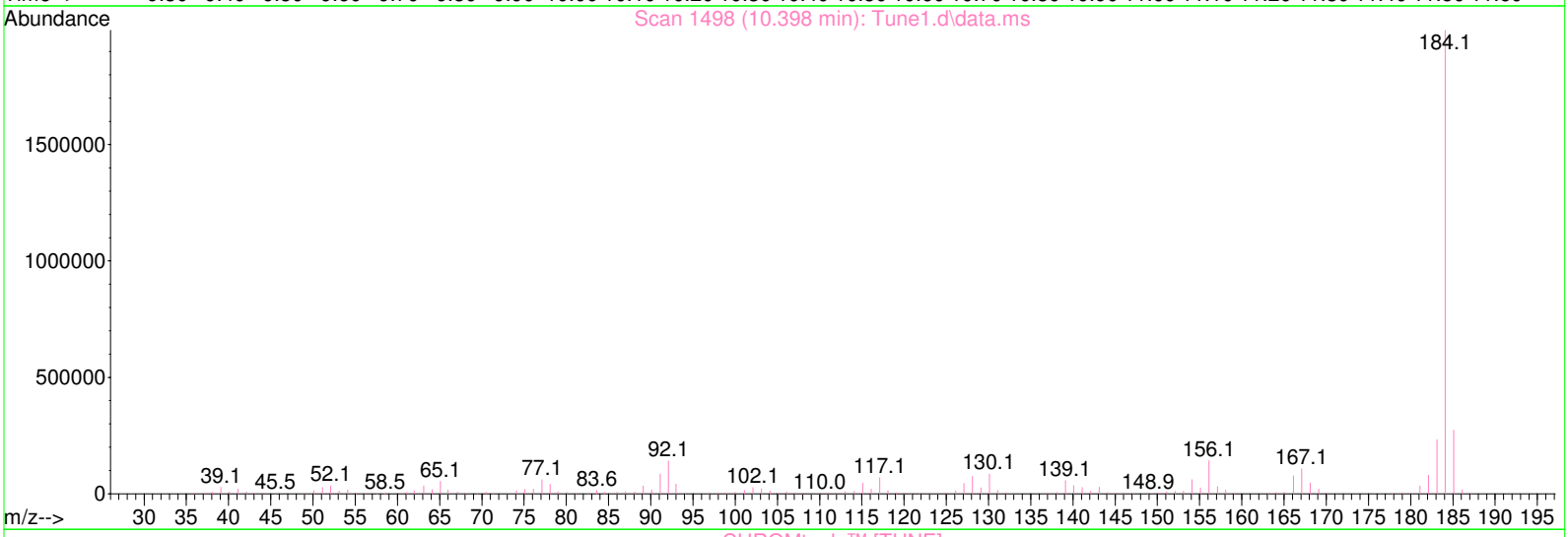
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV124\201012ical\
Data File : Tune1.d
Acq On : 12 Oct 2020 2:11 pm
Operator : sv124:wr
Sample : TUNE
Misc : wg1422524,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 15 15:49:36 2020
Quant Method : I:\8270\SV124\201012ical\dftppSV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Aug 24 20:27:27 2020
Response via : Initial Calibration





CHROMtools™ [TUNE]

(3) Benzidine (T)

10.398min (-0.053) 180.89 Lin

response 1841449

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL10.d
Acq On : 12 Oct 2020 2:34 pm
Operator : sv124:wr
Sample : IL1,32,,ABNL50 #8947
Misc : wg1422524,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 15 13:18:01 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.687	150	59064M6	4.000 ug/ml	0.00
Standard Area 1 = 50323			Recovery = 117.37%		
34) IS1_Naphthalene-d8	5.928	136	120146	4.000 ug/ml	0.00
Standard Area 1 = 127278			Recovery = 94.40%		
62) IS1_Acenaphthene-d10	7.634	164	67461	4.000 ug/ml	0.00
Standard Area 1 = 71862			Recovery = 93.88%		
87) IS1_Phenanthrene-d10	9.063	188	130367	4.000 ug/ml	0.00
Standard Area 1 = 138593			Recovery = 94.06%		
103) IS1_Chrysene-d12	11.698	240	140150	4.000 ug/ml	# 0.00
Standard Area 1 = 144009			Recovery = 97.32%		
112) IS1_Perylene-d12	13.163	264	133561	4.000 ug/ml	0.00
Standard Area 1 = 139085			Recovery = 96.03%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.410	112	435740	27.861 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 557.22%#		
7) Phenol-d6	4.369	99	560020	30.277 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 605.54%#		
19) Nitrobenzene-d5	5.234	82	533626	30.269 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 1210.76%#		
45) 2-Fluorobiphenyl	6.998	172	1209402	33.357 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 1334.28%#		
78) 2,4,6-Tribromophenol	8.398	330	199067	34.049 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 680.98%#		
95) 4-Terphenyl-d14	10.645	244	1628555	34.697 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 1387.88%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.016	74	263930	34.156 ug/ml#	75
3) Pyridine	2.040	79	468027	37.679 ug/ml#	57
5) Aniline	4.369	93	757633	37.311 ug/ml#	54
6) 2-Chlorophenol	4.481	128	525068	36.060 ug/ml#	86
8) Phenol	4.381	94	665331	38.237 ug/ml#	54
9) Bis(2-chloroethyl)ether	4.451	93	460140M3	35.559 ug/ml	
10) 1,3-Dichlorobenzene	4.634	146	587957	35.081 ug/ml	98
11) 1,4-Dichlorobenzene	4.704	146	591661	35.305 ug/ml	97
12) 1,2-Dichlorobenzene	4.851	146	577236	35.189 ug/ml	98
13) Benzyl alcohol	4.846	79	416975	40.914 ug/ml	98
14) Bis(2-chloroisopropyl)...	4.987	45	703580	28.060 ug/ml#	51

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL10.d
Acq On : 12 Oct 2020 2:34 pm
Operator : sv124:wr
Sample : IL1,32,,ABNL50 #8947
Misc : wg1422524,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 15 13:18:01 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.969	108	458385	37.661	ug/ml	99
16) Hexachloroethane	5.181	117	235330	37.441	ug/ml#	80
17) n-Nitrosodi-n-propylamine	5.116	70	363833	39.420	ug/ml	96
18) 3-Methylphenol/4-Methy...	5.128	108	491442	38.026	ug/ml	98
20) Nitrobenzene	5.251	77	524823	37.502	ug/ml	97
21) Isophorone	5.498	82	1008577	31.561	ug/ml	98
22) 2-Nitrophenol	5.563	139	277826	41.255	ug/ml	88
23) 2,4-Dimethylphenol	5.640	107	533619	31.471	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.728	93	622895	36.877	ug/ml	98
25) 2,4-Dichlorophenol	5.804	162	464229	36.269	ug/ml	96
26) 1,2,4-Trichlorobenzene	5.881	180	492508	32.572	ug/ml	99
35) Naphthalene	5.946	128	1576023	42.363	ug/ml	99
36) Benzoic Acid	5.781	105	387039M1	44.731	ug/ml	
37) 4-Chloroaniline	6.016	65	187330	53.082	ug/ml#	72
38) Hexachlorobutadiene	6.093	225	292157	41.633	ug/ml	99
39) p-Chloro-m-cresol	6.510	107	460619	47.101	ug/ml	99
40) 2-Methylnaphthalene	6.628	142	1101955	43.562	ug/ml	95
41) 1-Methylnaphthalene	6.722	115	381818	44.341	ug/ml	94
42) Hexachlorocyclopentadiene	6.793	237	412465	50.944	ug/ml	99
43) 2,4,6-Trichlorophenol	6.910	196	365409	50.699	ug/ml	99
44) 2,4,5-Trichlorophenol	6.940	196	366819	48.823	ug/ml	100
46) 2-Chloronaphthalene	7.092	162	1029429	31.430	ug/ml	99
47) 2-Nitroaniline	7.204	138	339881	49.323	ug/ml	84
48) 1,4-Dinitrobenzene	7.340	168	172231	46.330	ug/ml	77
49) 1,3-Dinitrobenzene	7.416	168	194960	47.863	ug/ml#	1
50) Dimethyl phthalate	7.410	163	1251383	31.245	ug/ml#	98
51) Acenaphthylene	7.492	152	1714004	34.082	ug/ml	99
52) 2,6-Dinitrotoluene	7.451	165	267298	47.019	ug/ml#	81
53) 1,2-Dinitrobenzene	7.498	168	124236	46.954	ug/ml#	1
63) 3-Nitroaniline	7.610	138	304922	47.933	ug/ml#	91
64) Acenaphthene	7.663	154	1001522	43.474	ug/ml	92
65) 2,4-Dinitrophenol	7.704	184	184145	42.112	ug/ml	90
66) Dibenzofuran	7.834	168	1514460	39.935	ug/ml	98
67) 2,4-Dinitrotoluene	7.840	165	374519	47.654	ug/ml	97
68) 4-Nitrophenol	7.792	65	234496	51.701	ug/ml#	80
69) 2,3,5,6-Tetrachlorophenol	7.922	232	323865	48.013	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	7.963	232	311749	46.929	ug/ml	96
71) Diethyl phthalate	8.098	149	1331283	33.879	ug/ml	99
72) Fluorene	8.163	166	1187246	32.211	ug/ml	94
73) 4-Chlorophenyl phenyl ...	8.181	204	558897	39.210	ug/ml	98

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL10.d
Acq On : 12 Oct 2020 2:34 pm
Operator : sv124:wr
Sample : IL1,32,,ABNL50 #8947
Misc : wg1422524,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 15 13:18:01 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	8.198	138	298443	44.846	ug/ml#	82
75)	4,6-Dinitro-o-cresol	8.234	198	217045	39.974	ug/ml#	65
76)	NDPA/DPA	8.298	169	1018574	31.876	ug/ml	95
77)	Azobenzene	8.334	77	1254708	48.163	ug/ml	100
79)	4-Bromophenyl phenyl e...	8.651	248	350045	31.676	ug/ml	91
80)	Hexachlorobenzene	8.698	284	395004	30.028	ug/ml#	90
81)	Pentachlorophenol	8.892	266	269488	45.381	ug/ml	99
88)	Phenanthrene	9.086	178	1817429	42.321	ug/ml	99
89)	Anthracene	9.134	178	1885787	33.810	ug/ml	98
90)	Carbazole	9.304	167	1702844	43.954	ug/ml	98
91)	Di-n-butylphthalate	9.686	149	2373391	57.389	ug/ml	99
92)	Fluoranthene	10.239	202	2086195	32.046	ug/ml#	94
93)	Benzidine	10.392	184	1556658	53.027	ug/ml#	96
94)	Pyrene	10.457	202	2134128	32.249	ug/ml	98
96)	Butyl benzyl phthalate	11.169	149	1053332	49.737	ug/ml	92
104)	Benzo(a)anthracene	11.692	228	2156327	33.700	ug/ml	98
105)	3,3'-Dichlorobenzidine	11.692	252	870040	51.294	ug/ml	98
106)	Chrysene	11.727	228	1968787	29.753	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	11.804	149	1656992	49.718	ug/ml#	93
108)	Di-n-octylphthalate	12.486	149	2849651	50.188	ug/ml#	74
109)	Benzo(b)fluoranthene	12.798	252	2303342	42.507	ug/ml#	93
110)	Benzo(k)fluoranthene	12.827	252	1810832	36.328	ug/ml	93
111)	Benzo(a)pyrene	13.116	252	1852766	40.027	ug/ml#	95
113)	Indeno(1,2,3-cd)pyrene	14.133	276	2133263M6	44.916	ug/mL	
114)	Dibenzo(a,h)anthracene	14.151	278	2047751	43.076	ug/ml#	91
115)	Benzo(ghi)perylene	14.351	276	1972991	32.602	ug/ml#	89

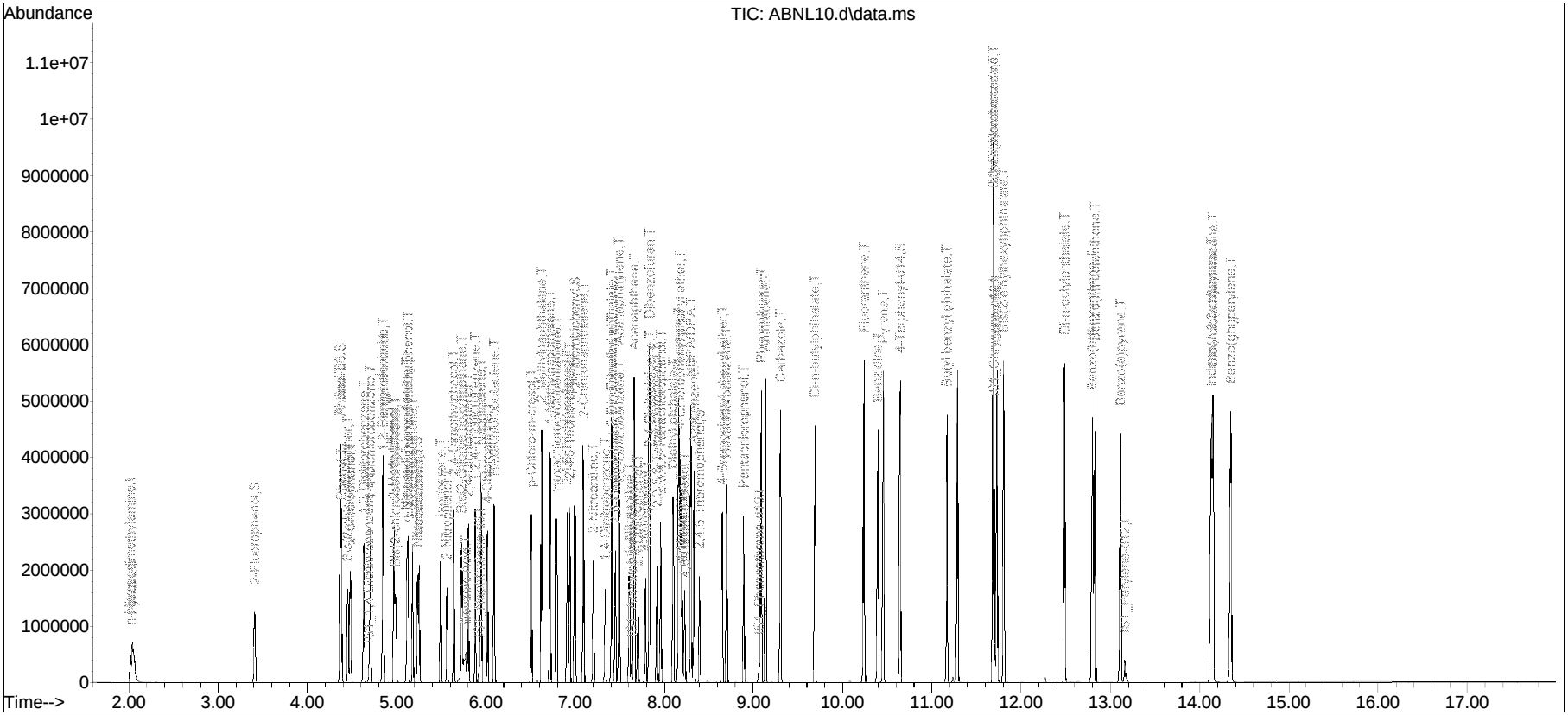
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL10.d
Acq On : 12 Oct 2020 2:34 pm
Operator : sv124:wr
Sample : IL1,32,,ABNL50 #8947
Misc : wg1422524,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 15 13:18:01 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

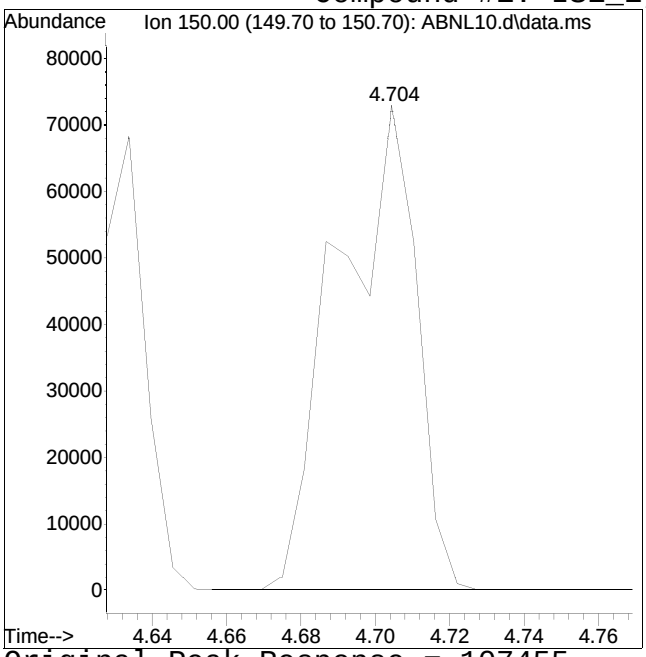
Sub List : ABNical - ABN ical sublistal\ABNL7.d•



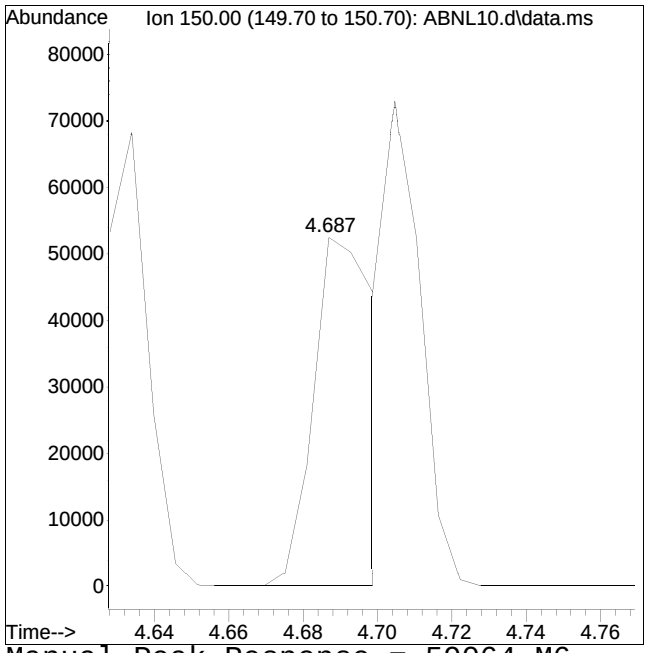
Manual Integration/Negative Proof Report

Data Path : I:\8270\SV124\201012ical\ QMethod : FS201012SV124.m
Data File : ABNL10.d Operator : sv124:wr
Date Inj'd : 10/12/2020 2:34 pm Instrument : SV 124
Sample : IL1,32,,ABNL50 #8947 Quant Date : 10/13/2020 11:11 am

Compound #1: IS1_1,4-Dichlorobenzene-d4



Original Peak Response = 107455



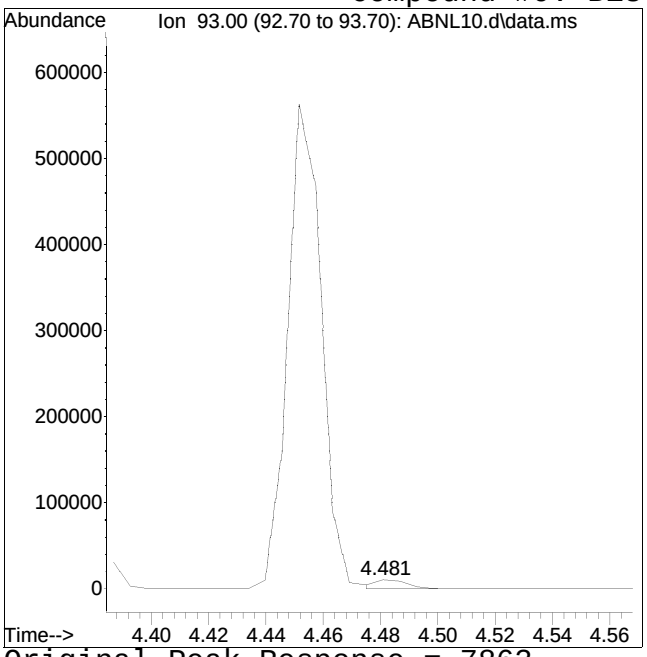
Manual Peak Response = 59064 M6

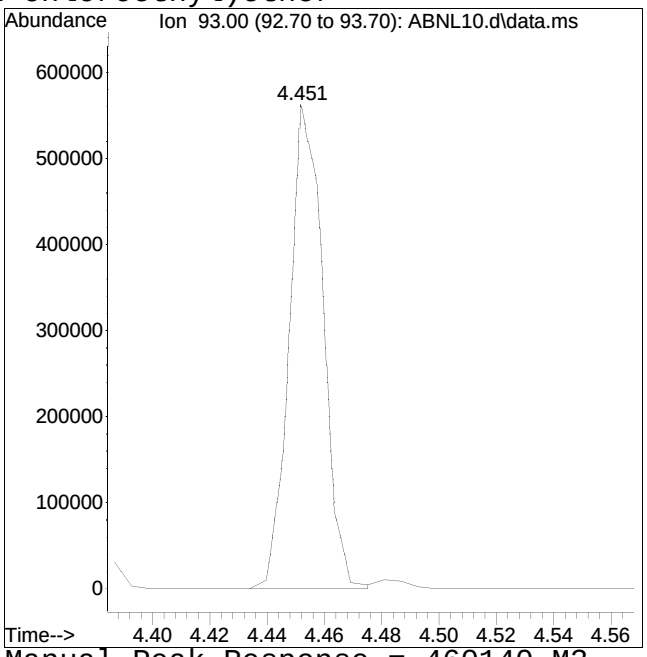
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

Data Path : I:\8270\SV124\201012ical\ QMethod : FS201012SV124.m
Data File : ABNL10.d Operator : sv124:wr
Date Inj'd : 10/12/2020 2:34 pm Instrument : SV 124
Sample : IL1,32,,ABNL50 #8947 Quant Date : 10/13/2020 11:11 am

Compound #9: Bis(2-chloroethyl)ether





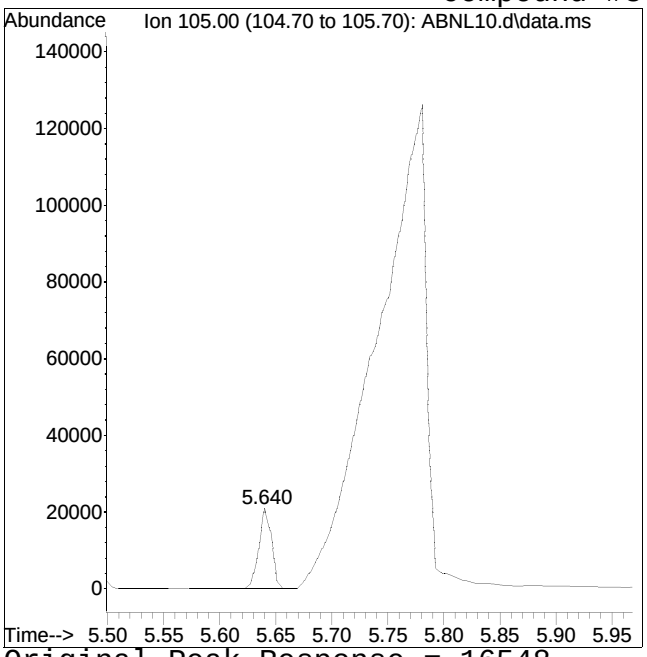
Original Peak Response = 7863 Manual Peak Response = 460140 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

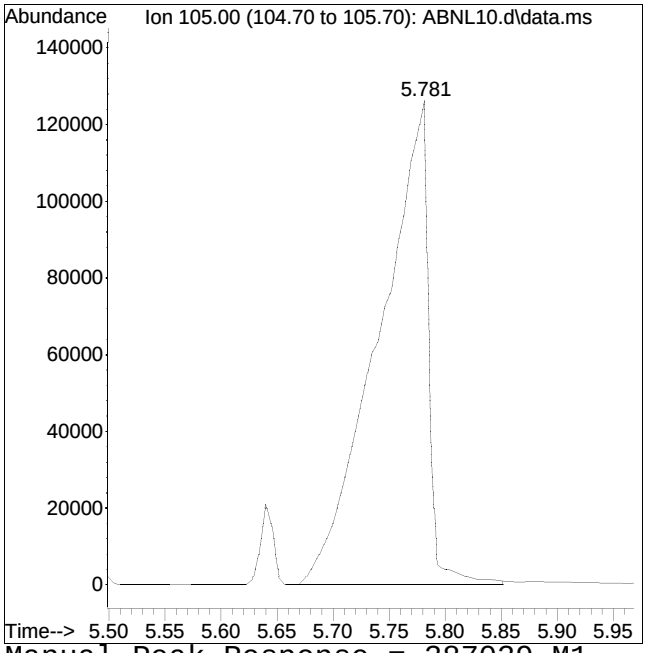
Manual Integration/Negative Proof Report

Data Path : I:\8270\SV124\201012ical\ QMethod : FS201012SV124.m
Data File : ABNL10.d Operator : sv124:wr
Date Inj'd : 10/12/2020 2:34 pm Instrument : SV 124
Sample : IL1,32,,ABNL50 #8947 Quant Date : 10/13/2020 11:11 am

Compound #36: Benzoic Acid



Original Peak Response = 16548



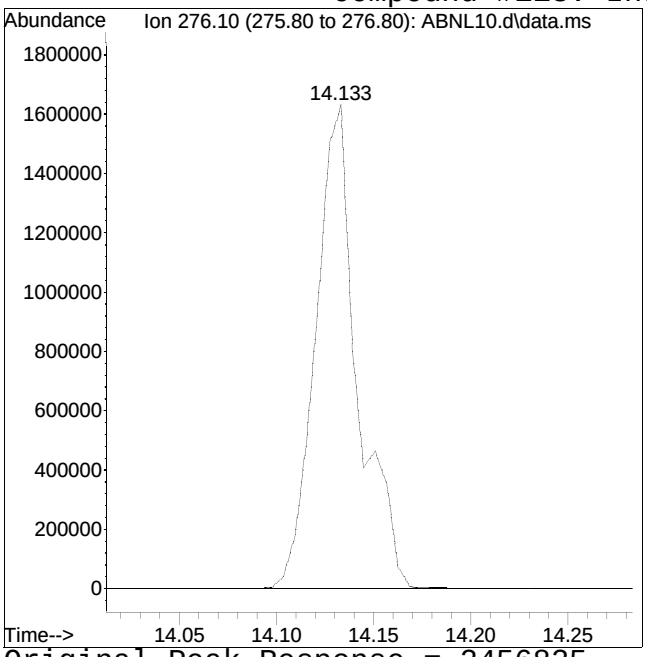
Manual Peak Response = 387039 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

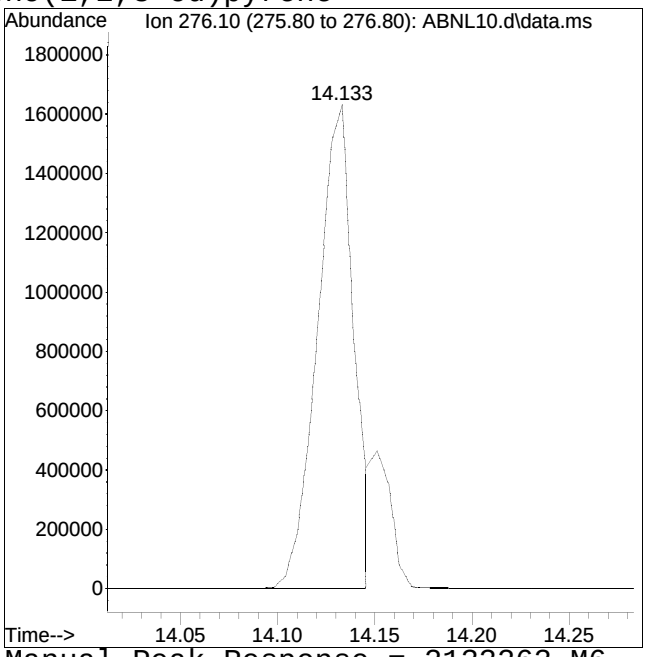
Manual Integration/Negative Proof Report

Data Path	: I:\8270\SV124\201012ical\	QMethod	: FS201012SV124.m
Data File	: ABNL10.d	Operator	: sv124:wr
Date Inj'd	: 10/12/2020 2:34 pm	Instrument	: SV 124
Sample	: IL1,32,,ABNL50 #8947	Quant Date	: 10/13/2020 11:11 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 2456825



Manual Peak Response = 2133263 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL9.d
Acq On : 12 Oct 2020 2:57 pm
Operator : sv124:wr
Sample : IL2,32,,ABNL35 #8956
Misc : wg1422524,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 15 13:15:29 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.687	150	59183M6	4.000	ug/ml	0.00
Standard Area 1 = 50323			Recovery = 117.61%			
34) IS1_Naphthalene-d8	5.928	136	127596	4.000	ug/ml	0.00
Standard Area 1 = 127278			Recovery = 100.25%			
62) IS1_Acenaphthene-d10	7.628	164	72205	4.000	ug/ml	0.00
Standard Area 1 = 71862			Recovery = 100.48%			
87) IS1_Phenanthrene-d10	9.063	188	139422	4.000	ug/ml	0.00
Standard Area 1 = 138593			Recovery = 100.60%			
103) IS1_Chrysene-d12	11.698	240	149336	4.000	ug/ml	0.00
Standard Area 1 = 144009			Recovery = 103.70%			
112) IS1_Perylene-d12	13.163	264	140343	4.000	ug/ml	0.00
Standard Area 1 = 139085			Recovery = 100.90%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.410	112	314414	20.063	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 401.26%#			
7) Phenol-d6	4.369	99	399433	21.552	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 431.04%#			
19) Nitrobenzene-d5	5.234	82	389654	22.058	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 882.32%#			
45) 2-Fluorobiphenyl	6.998	172	894087	23.220	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 928.80%#			
78) 2,4,6-Tribromophenol	8.392	330	146893	23.474	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 469.48%#			
95) 4-Terphenyl-d14	10.645	244	1187729	23.662	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 946.48%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.016	74	194169	25.077	ug/ml#	74
3) Pyridine	2.040	79	341197	27.413	ug/ml#	58
5) Aniline	4.369	93	534342	26.262	ug/ml#	53
6) 2-Chlorophenol	4.481	128	374903	25.696	ug/ml#	86
8) Phenol	4.381	94	475702	27.284	ug/ml#	54
9) Bis(2-chloroethyl)ether	4.451	93	331483	25.565	ug/ml	88
10) 1,3-Dichlorobenzene	4.634	146	422187	25.139	ug/ml	98
11) 1,4-Dichlorobenzene	4.704	146	429651	25.586	ug/ml	98
12) 1,2-Dichlorobenzene	4.851	146	410569	24.978	ug/ml	97
13) Benzyl alcohol	4.840	79	299112	29.290	ug/ml	98
14) Bis(2-chloroisopropyl)...	4.987	45	511347	20.352	ug/ml#	51

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL9.d
Acq On : 12 Oct 2020 2:57 pm
Operator : sv124:wr
Sample : IL2,32,,ABNL35 #8956
Misc : wg1422524,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 15 13:15:29 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.969	108	326531	26.774	ug/ml	98
16) Hexachloroethane	5.181	117	167696	26.627	ug/ml#	78
17) n-Nitrosodi-n-propylamine	5.110	70	259905	28.103	ug/ml	96
18) 3-Methylphenol/4-Methy...	5.128	108	352166	27.194	ug/ml	98
20) Nitrobenzene	5.251	77	382193	27.255	ug/ml	97
21) Isophorone	5.493	82	734484	22.938	ug/ml	98
22) 2-Nitrophenol	5.563	139	205859	30.507	ug/ml	87
23) 2,4-Dimethylphenol	5.640	107	384909	22.655	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.728	93	458731	27.104	ug/ml	99
25) 2,4-Dichlorophenol	5.804	162	333711	26.019	ug/ml	96
26) 1,2,4-Trichlorobenzene	5.881	180	358894	23.688	ug/ml	99
35) Naphthalene	5.946	128	1145495	28.993	ug/ml	100
36) Benzoic Acid	5.763	105	290035M1	32.106	ug/ml	
37) 4-Chloroaniline	6.016	65	136001	36.287	ug/ml#	71
38) Hexachlorobutadiene	6.093	225	212516	28.516	ug/ml	99
39) p-Chloro-m-cresol	6.510	107	334372	32.195	ug/ml	98
40) 2-Methylnaphthalene	6.628	142	806555	30.022	ug/ml	95
41) 1-Methylnaphthalene	6.716	115	276141	30.196	ug/ml	96
42) Hexachlorocyclopentadiene	6.793	237	296969	34.537	ug/ml	98
43) 2,4,6-Trichlorophenol	6.910	196	269585	35.220	ug/ml	99
44) 2,4,5-Trichlorophenol	6.940	196	270355	33.883	ug/ml	98
46) 2-Chloronaphthalene	7.092	162	760422	21.861	ug/ml	99
47) 2-Nitroaniline	7.204	138	246800	33.724	ug/ml#	83
48) 1,4-Dinitrobenzene	7.340	168	126223	31.972	ug/ml	77
49) 1,3-Dinitrobenzene	7.416	168	144416	33.384	ug/ml#	1
50) Dimethyl phthalate	7.410	163	933213	21.940	ug/ml#	98
51) Acenaphthylene	7.487	152	1266617	23.716	ug/ml	99
52) 2,6-Dinitrotoluene	7.451	165	198187	32.827	ug/ml#	81
53) 1,2-Dinitrobenzene	7.492	168	90601	32.243	ug/ml#	1
63) 3-Nitroaniline	7.604	138	223092	32.765	ug/ml#	91
64) Acenaphthene	7.663	154	734633	29.794	ug/ml	91
65) 2,4-Dinitrophenol	7.704	184	135622	29.450	ug/ml	90
66) Dibenzofuran	7.834	168	1119088	27.570	ug/ml	100
67) 2,4-Dinitrotoluene	7.834	165	278596	33.120	ug/ml	97
68) 4-Nitrophenol	7.787	65	172081	35.447	ug/ml#	79
69) 2,3,5,6-Tetrachlorophenol	7.916	232	237244	32.861	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	7.957	232	226609	31.871	ug/ml	95
71) Diethyl phthalate	8.098	149	986591	23.457	ug/ml	99
72) Fluorene	8.163	166	884080	22.410	ug/ml	95
73) 4-Chlorophenyl phenyl ...	8.181	204	420694	27.575	ug/ml	97

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL9.d
Acq On : 12 Oct 2020 2:57 pm
Operator : sv124:wr
Sample : IL2,32,,ABNL35 #8956
Misc : wg1422524,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 15 13:15:29 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	8.192	138	219790	30.857	ug/ml#	82
75)	4,6-Dinitro-o-cresol	8.228	198	160024	27.778	ug/ml#	63
76)	NDPA/DPA	8.298	169	755241	22.082	ug/ml	95
77)	Azobenzene	8.328	77	911674	32.696	ug/ml	99
79)	4-Bromophenyl phenyl e...	8.651	248	255014	21.561	ug/ml	90
80)	Hexachlorobenzene	8.698	284	287361	20.410	ug/ml#	89
81)	Pentachlorophenol	8.892	266	194365	30.776	ug/ml	99
88)	Phenanthrene	9.086	178	1350128	29.398	ug/ml	99
89)	Anthracene	9.134	178	1384394	23.209	ug/ml	98
90)	Carbazole	9.304	167	1265275	30.538	ug/ml	98
91)	Di-n-butylphthalate	9.686	149	1731729	39.154	ug/ml	99
92)	Fluoranthene	10.239	202	1525011	21.904	ug/ml#	94
93)	Benzidine	10.392	184	1121978	35.738	ug/ml#	96
94)	Pyrene	10.451	202	1579830	22.323	ug/ml	98
96)	Butyl benzyl phthalate	11.169	149	755555	33.561	ug/ml	91
104)	Benzo(a)anthracene	11.686	228	1596005	23.409	ug/ml	98
105)	3,3'-Dichlorobenzidine	11.692	252	633551	35.054	ug/ml	98
106)	Chrysene	11.727	228	1459113	20.694	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	11.804	149	1226157	36.062	ug/ml#	93
108)	Di-n-octylphthalate	12.486	149	2051293	34.141	ug/ml#	74
109)	Benzo(b)fluoranthene	12.798	252	1552655	26.891	ug/ml#	95
110)	Benzo(k)fluoranthene	12.827	252	1431634	26.954	ug/ml#	95
111)	Benzo(a)pyrene	13.110	252	1348864	27.348	ug/ml#	95
113)	Indeno(1,2,3-cd)pyrene	14.127	276	1444352M6	28.942	ug/mL	
114)	Dibenzo(a,h)anthracene	14.151	278	1467876	29.386	ug/ml#	92
115)	Benzo(ghi)perylene	14.351	276	1431931	22.518	ug/ml#	89

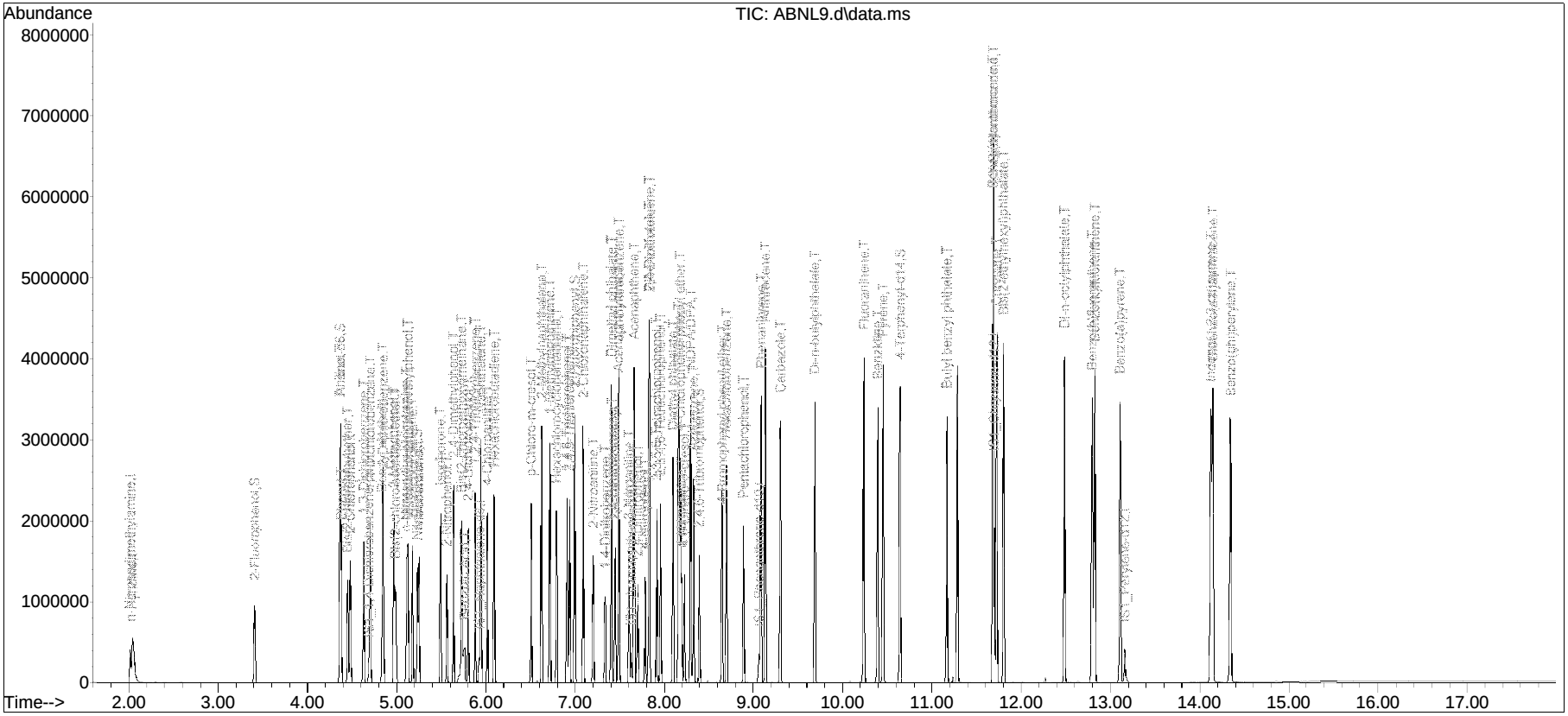
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL9.d
Acq On : 12 Oct 2020 2:57 pm
Operator : sv124:wr
Sample : IL2,32,,ABNL35 #8956
Misc : wg1422524,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 15 13:15:29 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

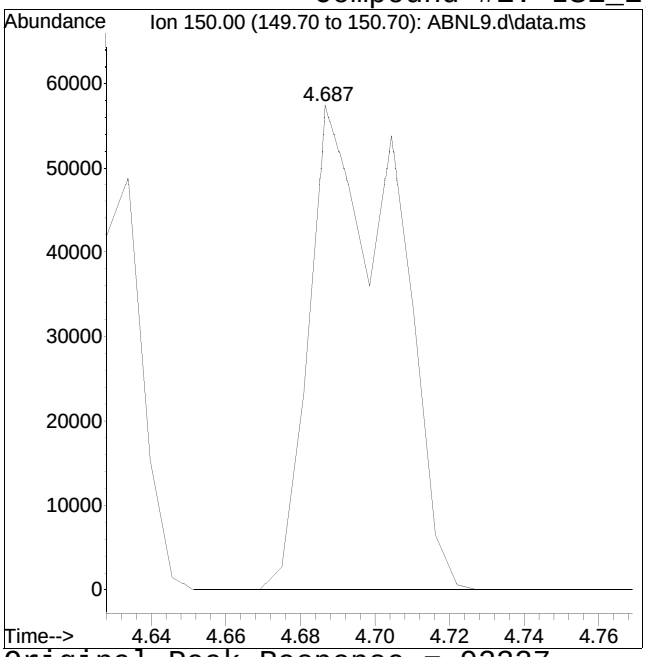
Sub List : ABNical - ABN ical sublistal\ABNL7.d•



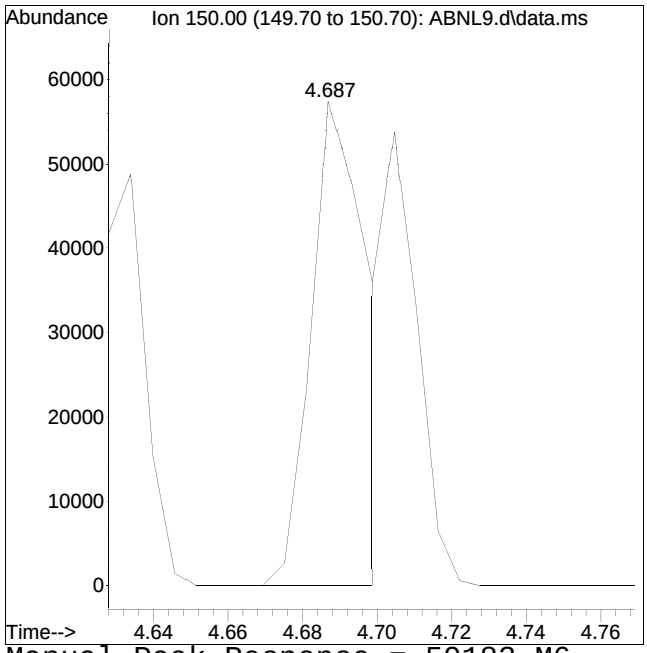
Manual Integration/Negative Proof Report

Data Path : I:\8270\SV124\201012ical\ QMethod : FS201012SV124.m
Data File : ABNL9.d Operator : sv124:wr
Date Inj'd : 10/12/2020 2:57 pm Instrument : SV 124
Sample : IL2,32,,ABNL35 #8956 Quant Date : 10/13/2020 11:13 am

Compound #1: IS1_1,4-Dichlorobenzene-d4



Original Peak Response = 92327



Manual Peak Response = 59183 M6

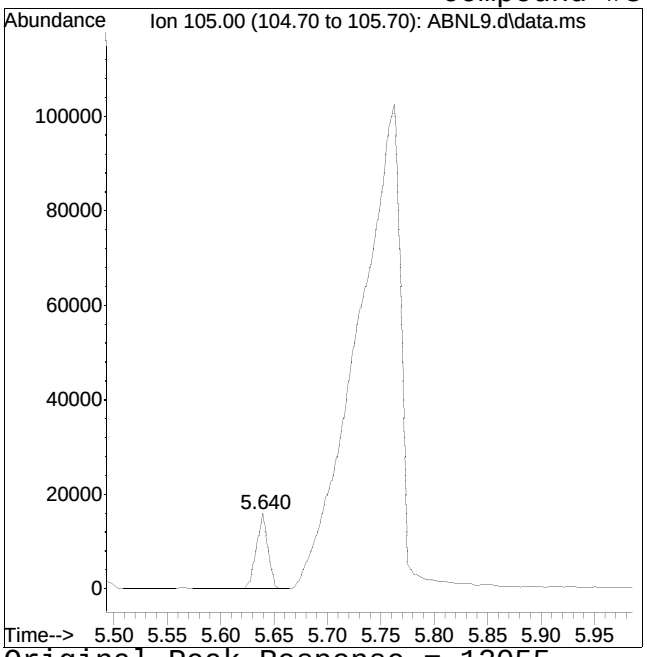
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

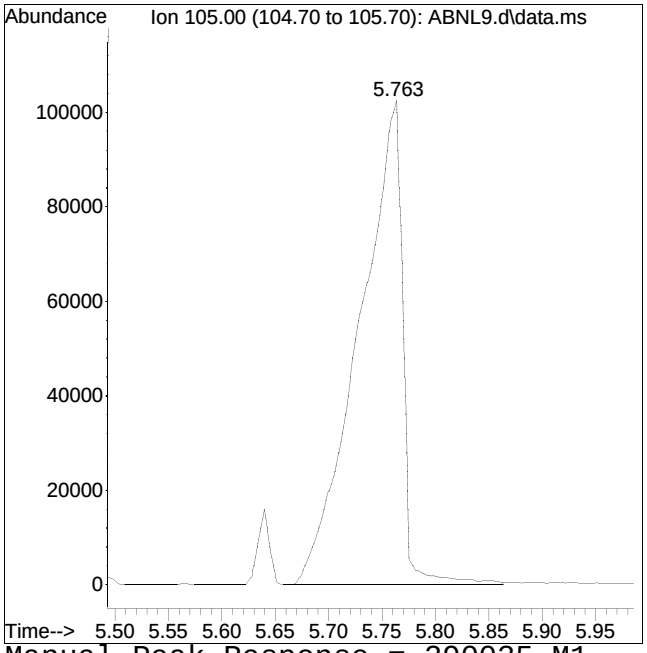
Manual Integration/Negative Proof Report

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL9.d
Date Inj'd : 10/12/2020 2:57 pm
Sample : IL2,32,,ABNL35 #8956

QMethod : FS201012SV124.m
Operator : sv124:wr
Instrument : SV 124
Quant Date : 10/13/2020 11:13 am

Compound #36: Benzoic Acid





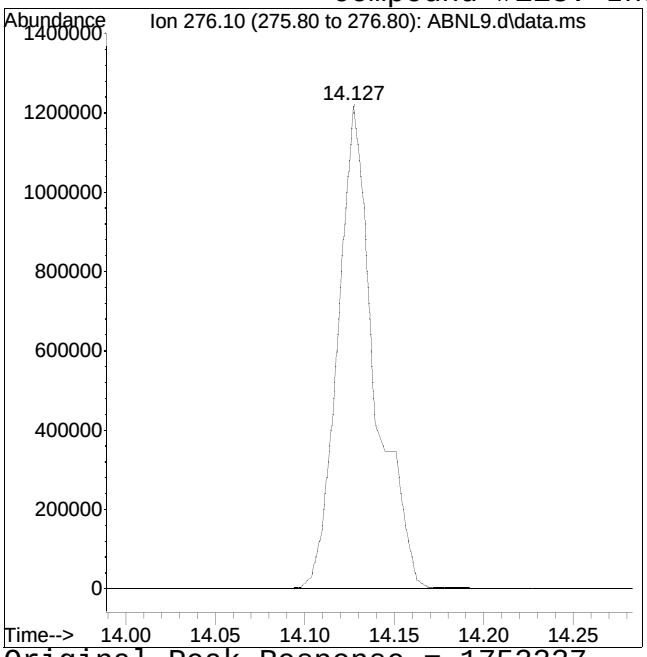
Original Peak Response = 12055 Manual Peak Response = 290035 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

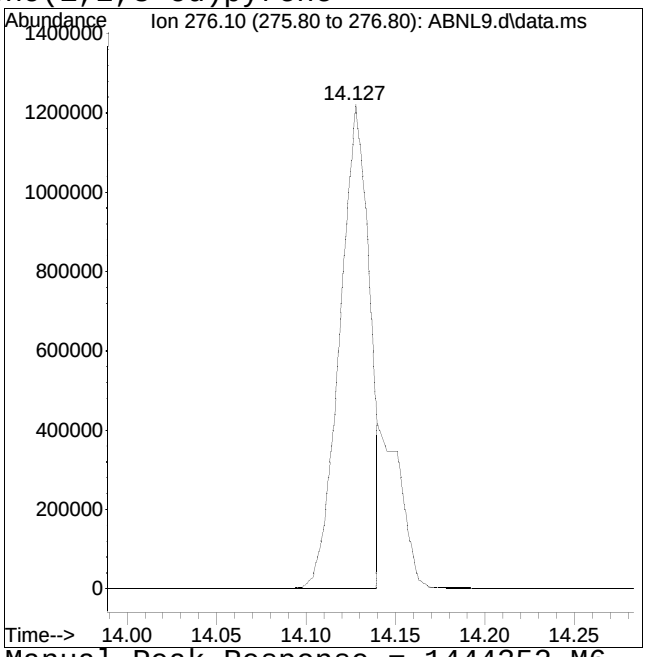
Manual Integration/Negative Proof Report

Data Path : I:\8270\SV124\201012ical\ QMethod : FS201012SV124.m
Data File : ABNL9.d Operator : sv124:wr
Date Inj'd : 10/12/2020 2:57 pm Instrument : SV 124
Sample : IL2,32,,ABNL35 #8956 Quant Date : 10/13/2020 11:13 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 1753337



Manual Peak Response = 1444352 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL8.d
Acq On : 12 Oct 2020 3:20 pm
Operator : sv124:wr
Sample : IL3,32,,ABNL15 #8955
Misc : wg1422524,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 13 11:41:50 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.687	150	51529M6	4.000	ug/ml	0.00
Standard Area 1 = 50323			Recovery = 102.40%			
34) IS1_Naphthalene-d8	5.928	136	122701	4.000	ug/ml	0.00
Standard Area 1 = 127278			Recovery = 96.40%			
62) IS1_Acenaphthene-d10	7.628	164	68429	4.000	ug/ml	0.00
Standard Area 1 = 71862			Recovery = 95.22%			
87) IS1_Phenanthrene-d10	9.057	188	134269	4.000	ug/ml	0.00
Standard Area 1 = 138593			Recovery = 96.88%			
103) IS1_Chrysene-d12	11.692	240	139457	4.000	ug/ml	0.00
Standard Area 1 = 144009			Recovery = 96.84%			
112) IS1_Perylene-d12	13.157	264	134841	4.000	ug/ml	0.00
Standard Area 1 = 139085			Recovery = 96.95%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.410	112	129293	9.476	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 189.52%#			
7) Phenol-d6	4.363	99	162697	10.082	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 201.64%#			
19) Nitrobenzene-d5	5.234	82	158869	10.329	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 413.16%#			
45) 2-Fluorobiphenyl	6.992	172	374931	10.126	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 405.04%#			
78) 2,4,6-Tribromophenol	8.392	330	59923	10.104	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 202.08%#			
95) 4-Terphenyl-d14	10.639	244	488592	10.107	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 404.28%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.022	74	81757	12.128	ug/ml#	72
3) Pyridine	2.046	79	139269	12.852	ug/ml#	57
5) Aniline	4.369	93	217888	12.299	ug/ml#	55
6) 2-Chlorophenol	4.481	128	154736	12.181	ug/ml#	86
8) Phenol	4.375	94	192443	12.677	ug/ml#	56
9) Bis(2-chloroethyl)ether	4.451	93	137246	12.157	ug/ml	89
10) 1,3-Dichlorobenzene	4.634	146	174862	11.959	ug/ml	98
11) 1,4-Dichlorobenzene	4.704	146	176639	12.081	ug/ml	98
12) 1,2-Dichlorobenzene	4.851	146	173588	12.130	ug/ml	97
13) Benzyl alcohol	4.840	79	118256	13.300	ug/ml	97
14) Bis(2-chloroisopropyl)...	4.987	45	210895	9.641	ug/ml#	53

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL8.d
Acq On : 12 Oct 2020 3:20 pm
Operator : sv124:wr
Sample : IL3,32,,ABNL15 #8955
Misc : wg1422524,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 13 11:41:50 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.969	108	134476	12.664	ug/ml	98
16) Hexachloroethane	5.181	117	67746	12.354	ug/ml#	78
17) n-Nitrosodi-n-propylamine	5.110	70	103079	12.801	ug/ml	96
18) 3-Methylphenol/4-Methy...	5.122	108	142098	12.603	ug/ml	96
20) Nitrobenzene	5.251	77	156101	12.785	ug/ml	97
21) Isophorone	5.493	82	293027	10.511	ug/ml	98
22) 2-Nitrophenol	5.563	139	82297	14.008	ug/ml#	87
23) 2,4-Dimethylphenol	5.640	107	156805	10.600	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.728	93	184464	12.518	ug/ml	97
25) 2,4-Dichlorophenol	5.798	162	137945	12.353	ug/ml	96
26) 1,2,4-Trichlorobenzene	5.881	180	149585	11.339	ug/ml	99
35) Naphthalene	5.945	128	471131	12.400	ug/ml	99
36) Benzoic Acid	5.728	105	107920	13.555	ug/ml	92
37) 4-Chloroaniline	6.016	65	56296	15.620	ug/ml#	70
38) Hexachlorobutadiene	6.093	225	88523	12.352	ug/ml	99
39) p-Chloro-m-cresol	6.510	107	135474	13.564	ug/ml	100
40) 2-Methylnaphthalene	6.622	142	331539	12.833	ug/ml	95
41) 1-Methylnaphthalene	6.716	115	111281	12.654	ug/ml	97
42) Hexachlorocyclopentadiene	6.792	237	120236	14.541	ug/ml	99
43) 2,4,6-Trichlorophenol	6.910	196	104726	14.228	ug/ml	99
44) 2,4,5-Trichlorophenol	6.940	196	112431	14.653	ug/ml	98
46) 2-Chloronaphthalene	7.092	162	313932	9.385	ug/ml	98
47) 2-Nitroaniline	7.204	138	96602	13.727	ug/ml#	83
48) 1,4-Dinitrobenzene	7.334	168	49230	12.967	ug/ml	79
49) 1,3-Dinitrobenzene	7.410	168	57560	13.837	ug/ml#	1
50) Dimethyl phthalate	7.404	163	383364	9.373	ug/ml#	98
51) Acenaphthylene	7.487	152	521184	10.148	ug/ml	99
52) 2,6-Dinitrotoluene	7.445	165	80864	13.928	ug/ml#	81
53) 1,2-Dinitrobenzene	7.487	168	36903	13.657	ug/ml#	1
63) 3-Nitroaniline	7.598	138	93112	14.430	ug/ml#	88
64) Acenaphthene	7.657	154	304778	13.043	ug/ml	90
65) 2,4-Dinitrophenol	7.704	184	50179	12.419	ug/ml#	90
66) Dibenzofuran	7.828	168	468251	12.173	ug/ml	98
67) 2,4-Dinitrotoluene	7.834	165	112423	14.103	ug/ml	97
68) 4-Nitrophenol	7.781	65	68946	14.986	ug/ml#	80
69) 2,3,5,6-Tetrachlorophenol	7.916	232	96792	14.146	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	7.957	232	94342	14.001	ug/ml	97
71) Diethyl phthalate	8.092	149	399927	10.033	ug/ml	99
72) Fluorene	8.157	166	366924	9.814	ug/ml	95
73) 4-Chlorophenyl phenyl ...	8.181	204	173190	11.978	ug/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL8.d
Acq On : 12 Oct 2020 3:20 pm
Operator : sv124:wr
Sample : IL3,32,,ABNL15 #8955
Misc : wg1422524,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 13 11:41:50 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	8.187	138	93559	13.860	ug/ml	80
75)	4,6-Dinitro-o-cresol	8.222	198	61751	11.773	ug/ml#	63
76)	NDPA/DPA	8.292	169	315416	9.731	ug/ml	96
77)	Azobenzene	8.328	77	373444	14.132	ug/ml	99
79)	4-Bromophenyl phenyl e...	8.645	248	105477	9.410	ug/ml#	89
80)	Hexachlorobenzene	8.698	284	120346	9.019	ug/ml#	89
81)	Pentachlorophenol	8.892	266	76091	13.065	ug/ml	99
88)	Phenanthrene	9.081	178	558549	12.629	ug/ml	100
89)	Anthracene	9.133	178	569689	9.917	ug/ml	99
90)	Carbazole	9.298	167	519215	13.012	ug/ml	99
91)	Di-n-butylphthalate	9.686	149	668341	15.691	ug/ml	99
92)	Fluoranthene	10.233	202	622607	9.286	ug/ml#	94
93)	Benzidine	10.386	184	435515	14.405	ug/ml#	95
94)	Pyrene	10.451	202	651084	9.553	ug/ml	99
96)	Butyl benzyl phthalate	11.163	149	274945	13.063	ug/ml	90
104)	Benzo(a)anthracene	11.686	228	651740	10.236	ug/ml	99
105)	3,3'-Dichlorobenzidine	11.686	252	254345	15.070	ug/ml#	97
106)	Chrysene	11.722	228	610364	9.270	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	11.804	149	453164	15.275	ug/ml#	92
108)	Di-n-octylphthalate	12.480	149	729736	13.457	ug/ml#	73
109)	Benzo(b)fluoranthene	12.792	252	642927	11.924	ug/ml#	95
110)	Benzo(k)fluoranthene	12.822	252	597821	12.053	ug/ml#	94
111)	Benzo(a)pyrene	13.104	252	545848	11.851	ug/ml#	95
113)	Indeno(1,2,3-cd)pyrene	14.121	276	589849M6	12.302	ug/mL	
114)	Dibenzo(a,h)anthracene	14.139	278	605834	12.623	ug/ml#	91
115)	Benzo(ghi)perylene	14.339	276	594190	9.725	ug/ml#	89

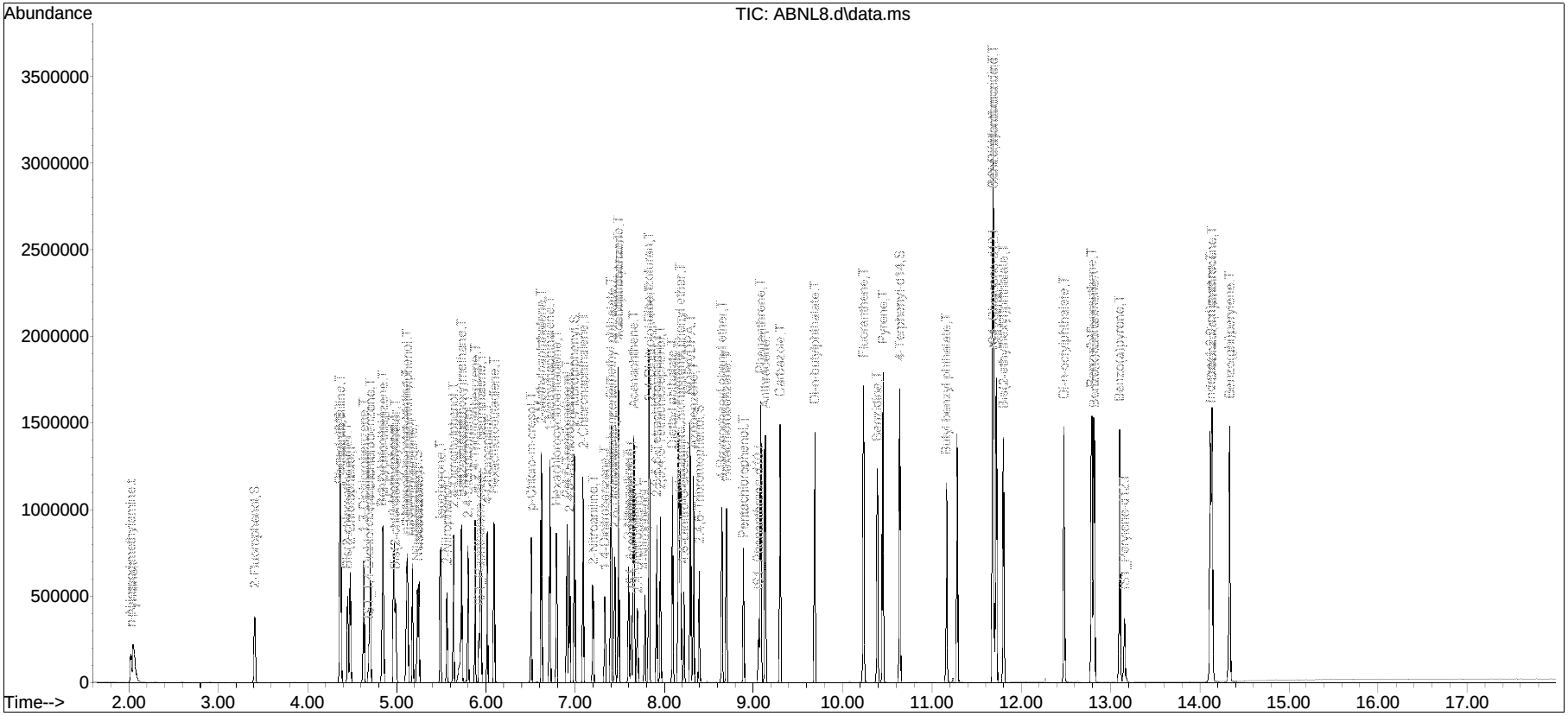
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL8.d
Acq On : 12 Oct 2020 3:20 pm
Operator : sv124:wr
Sample : IL3,32,,ABNL15 #8955
Misc : wg1422524,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 13 11:41:50 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

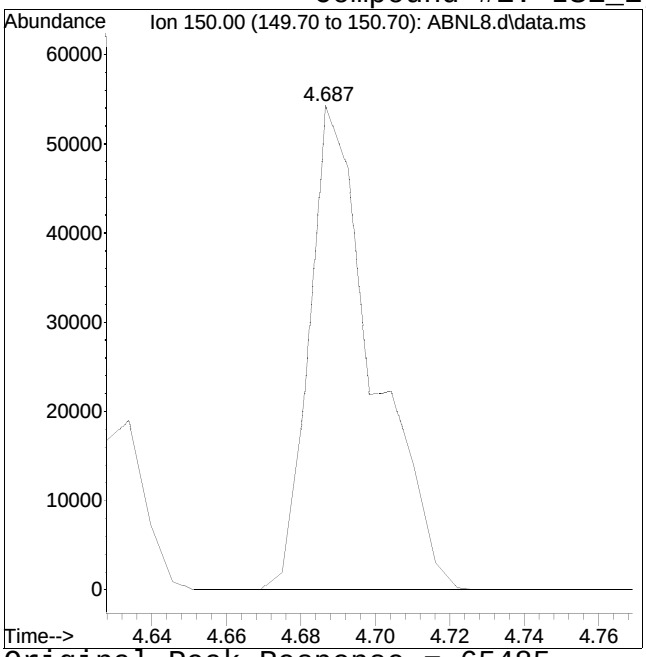
Sub List : ABNical - ABN ical sublistal\ABNL7.d•



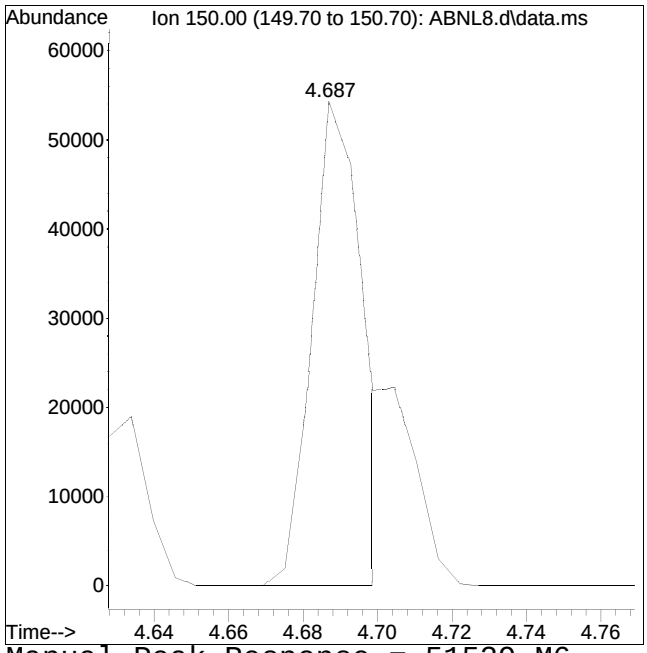
Manual Integration/Negative Proof Report

Data Path : I:\8270\SV124\201012ical\ QMethod : FS201012SV124.m
Data File : ABNL8.d Operator : sv124:wr
Date Inj'd : 10/12/2020 3:20 pm Instrument : SV 124
Sample : IL3,32,,ABNL15 #8955 Quant Date : 10/13/2020 11:12 am

Compound #1: IS1_1,4-Dichlorobenzene-d4



Original Peak Response = 65485



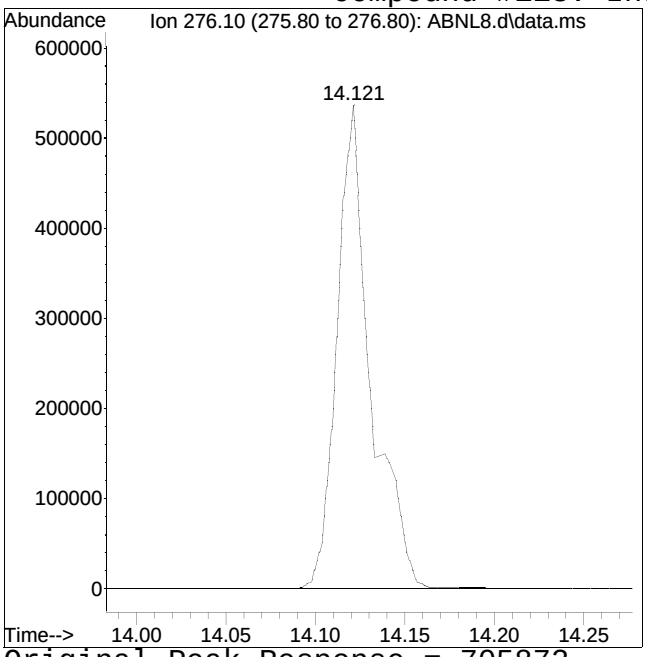
Manual Peak Response = 51529 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

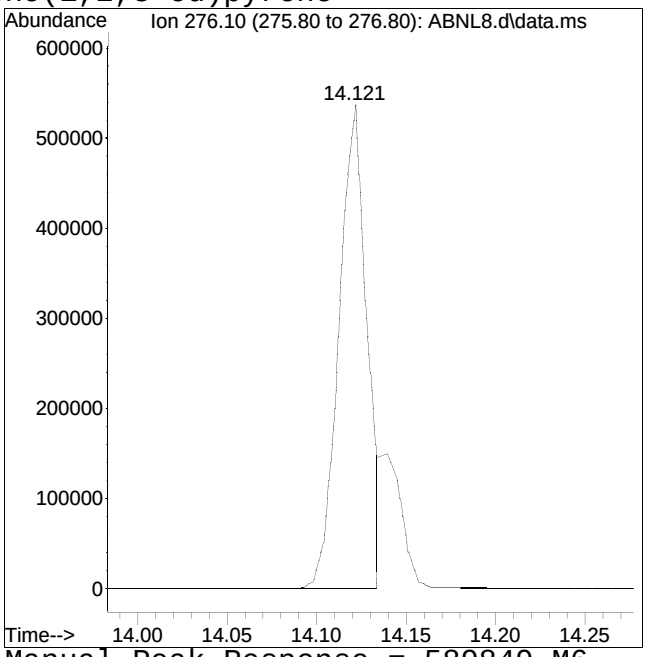
Manual Integration/Negative Proof Report

Data Path	: I:\8270\SV124\201012ical\	QMethod	: FS201012SV124.m
Data File	: ABNL8.d	Operator	: sv124:wr
Date Inj'd	: 10/12/2020 3:20 pm	Instrument	: SV 124
Sample	: IL3,32,,ABNL15 #8955	Quant Date	: 10/13/2020 11:12 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 705872



Manual Peak Response = 589849 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL7.d
Acq On : 12 Oct 2020 3:43 pm
Operator : sv124:wr
Sample : IL4,32,,ABNL10 #8954
Misc : wg1422524,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 13 11:44:03 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.687	150	50323M6	4.000	ug/ml	0.00
Standard Area 1 = 50323			Recovery = 100.00%			
34) IS1_Naphthalene-d8	5.928	136	127278	4.000	ug/ml	0.00
Standard Area 1 = 127278			Recovery = 100.00%			
62) IS1_Acenaphthene-d10	7.628	164	71862	4.000	ug/ml	0.00
Standard Area 1 = 71862			Recovery = 100.00%			
87) IS1_Phenanthrene-d10	9.057	188	138593	4.000	ug/ml	0.00
Standard Area 1 = 138593			Recovery = 100.00%			
103) IS1_Chrysene-d12	11.692	240	144009	4.000	ug/ml	0.00
Standard Area 1 = 144009			Recovery = 100.00%			
112) IS1_Perylene-d12	13.163	264	139085	4.000	ug/ml	0.00
Standard Area 1 = 139085			Recovery = 100.00%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.410	112	86751	6.510	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 130.20%#			
7) Phenol-d6	4.363	99	107137	6.798	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 135.96%#			
19) Nitrobenzene-d5	5.234	82	104427	6.952	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 278.08%#			
45) 2-Fluorobiphenyl	6.992	172	254403	6.624	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 264.96%#			
78) 2,4,6-Tribromophenol	8.392	330	39805	6.391	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 127.82%#			
95) 4-Terphenyl-d14	10.639	244	335578	6.725	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 269.00%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.022	74	54247	8.240	ug/ml#	73
3) Pyridine	2.051	79	94549	8.934	ug/ml#	58
5) Aniline	4.369	93	145016	8.382	ug/ml#	53
6) 2-Chlorophenol	4.481	128	102581	8.269	ug/ml#	86
8) Phenol	4.375	94	129347	8.725	ug/ml#	55
9) Bis(2-chloroethyl)ether	4.451	93	91550M6	8.304	ug/ml	
10) 1,3-Dichlorobenzene	4.634	146	118753	8.316	ug/ml	98
11) 1,4-Dichlorobenzene	4.704	146	121219	8.490	ug/ml	97
12) 1,2-Dichlorobenzene	4.851	146	115615	8.272	ug/ml	98
13) Benzyl alcohol	4.840	79	77143	8.884	ug/ml	97
14) Bis(2-chloroisopropyl)...	4.987	45	142475	6.669	ug/ml#	53

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL7.d
Acq On : 12 Oct 2020 3:43 pm
Operator : sv124:wr
Sample : IL4,32,,ABNL10 #8954
Misc : wg1422524,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 13 11:44:03 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.969	108	90442	8.721	ug/ml	98
16) Hexachloroethane	5.181	117	45861	8.564	ug/ml#	77
17) n-Nitrosodi-n-propylamine	5.110	70	69263	8.808	ug/ml	95
18) 3-Methylphenol/4-Methy...	5.122	108	96587	8.772	ug/ml	98
20) Nitrobenzene	5.251	77	104662	8.778	ug/ml	97
21) Isophorone	5.492	82	195477	7.180	ug/ml	98
22) 2-Nitrophenol	5.563	139	53916	9.397	ug/ml#	86
23) 2,4-Dimethylphenol	5.639	107	104699	7.247	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.728	93	126417	8.784	ug/ml	98
25) 2,4-Dichlorophenol	5.798	162	92552	8.487	ug/ml	95
26) 1,2,4-Trichlorobenzene	5.881	180	100593	7.808	ug/ml	97
35) Naphthalene	5.945	128	326240	8.278	ug/ml	100
36) Benzoic Acid	5.716	105	66946	8.848	ug/ml	93
37) 4-Chloroaniline	6.016	65	37004	9.898	ug/ml#	67
38) Hexachlorobutadiene	6.092	225	59890	8.056	ug/ml	99
39) p-Chloro-m-cresol	6.510	107	88991	8.590	ug/ml	97
40) 2-Methylnaphthalene	6.622	142	223698	8.348	ug/ml	95
41) 1-Methylnaphthalene	6.716	115	75117	8.235	ug/ml	98
42) Hexachlorocyclopentadiene	6.792	237	80080	9.337	ug/ml	98
43) 2,4,6-Trichlorophenol	6.910	196	69986	9.166	ug/ml	100
44) 2,4,5-Trichlorophenol	6.939	196	75663	9.506	ug/ml	100
46) 2-Chloronaphthalene	7.092	162	213657	6.158	ug/ml	98
47) 2-Nitroaniline	7.198	138	63166	8.653	ug/ml#	82
48) 1,4-Dinitrobenzene	7.333	168	32569	8.270	ug/ml	79
49) 1,3-Dinitrobenzene	7.410	168	38910	9.017	ug/ml#	1
50) Dimethyl phthalate	7.404	163	261193	6.156	ug/ml#	99
51) Acenaphthylene	7.486	152	358476	6.729	ug/ml	99
52) 2,6-Dinitrotoluene	7.445	165	55361	9.193	ug/ml#	80
53) 1,2-Dinitrobenzene	7.486	168	24730	8.823	ug/ml#	1
63) 3-Nitroaniline	7.598	138	61034	9.007	ug/ml#	91
64) Acenaphthene	7.657	154	209496	8.537	ug/ml	91
65) 2,4-Dinitrophenol	7.698	184	32524	8.244	ug/ml	89
66) Dibenzofuran	7.828	168	318307	7.879	ug/ml	99
67) 2,4-Dinitrotoluene	7.833	165	75678	9.040	ug/ml	97
68) 4-Nitrophenol	7.781	65	45518	9.421	ug/ml#	79
69) 2,3,5,6-Tetrachlorophenol	7.916	232	65659	9.138	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	7.957	232	65840	9.304	ug/ml	99
71) Diethyl phthalate	8.092	149	274324	6.554	ug/ml	99
72) Fluorene	8.157	166	249289	6.349	ug/ml	94
73) 4-Chlorophenyl phenyl ...	8.180	204	120895	7.962	ug/ml	95

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL7.d
Acq On : 12 Oct 2020 3:43 pm
Operator : sv124:wr
Sample : IL4,32,,ABNL10 #8954
Misc : wg1422524,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 13 11:44:03 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Nitroaniline	8.186	138	62582	8.828	ug/ml#	80
75) 4,6-Dinitro-o-cresol	8.222	198	40213	7.597	ug/ml#	63
76) NDPA/DPA	8.292	169	216083	6.348	ug/ml	95
77) Azobenzene	8.328	77	253623	9.139	ug/ml	99
79) 4-Bromophenyl phenyl e...	8.645	248	72310	6.143	ug/ml#	89
80) Hexachlorobenzene	8.698	284	82305	5.874	ug/ml#	88
81) Pentachlorophenol	8.892	266	51196	8.586	ug/ml	99
88) Phenanthrene	9.080	178	389170	8.524	ug/ml	100
89) Anthracene	9.127	178	389266	6.565	ug/ml	98
90) Carbazole	9.298	167	350419	8.508	ug/ml	99
91) Di-n-butylphthalate	9.686	149	454584	10.340	ug/ml	99
92) Fluoranthene	10.233	202	420192	6.071	ug/ml#	94
93) Benzidine	10.386	184	288553	9.246	ug/ml#	95
94) Pyrene	10.451	202	442242	6.286	ug/ml	99
96) Butyl benzyl phthalate	11.163	149	177225	8.388	ug/ml	90
104) Benzo(a)anthracene	11.686	228	438510	6.670	ug/ml	99
105) 3,3'-Dichlorobenzidine	11.686	252	168357	9.660	ug/ml#	98
106) Chrysene	11.721	228	422817	6.219	ug/ml	99
107) Bis(2-ethylhexyl)phtha...	11.804	149	303825	10.075	ug/ml#	92
108) Di-n-octylphthalate	12.480	149	470724	8.679	ug/ml#	73
109) Benzo(b)fluoranthene	12.792	252	444168	7.977	ug/ml#	95
110) Benzo(k)fluoranthene	12.815	252	407433	7.955	ug/ml#	95
111) Benzo(a)pyrene	13.104	252	373752	7.858	ug/ml#	95
113) Indeno(1,2,3-cd)pyrene	14.121	276	395242M6	7.991	ug/mL	
114) Dibenzo(a,h)anthracene	14.139	278	414671	8.376	ug/ml#	92
115) Benzo(ghi)perylene	14.339	276	404409	6.417	ug/ml#	88

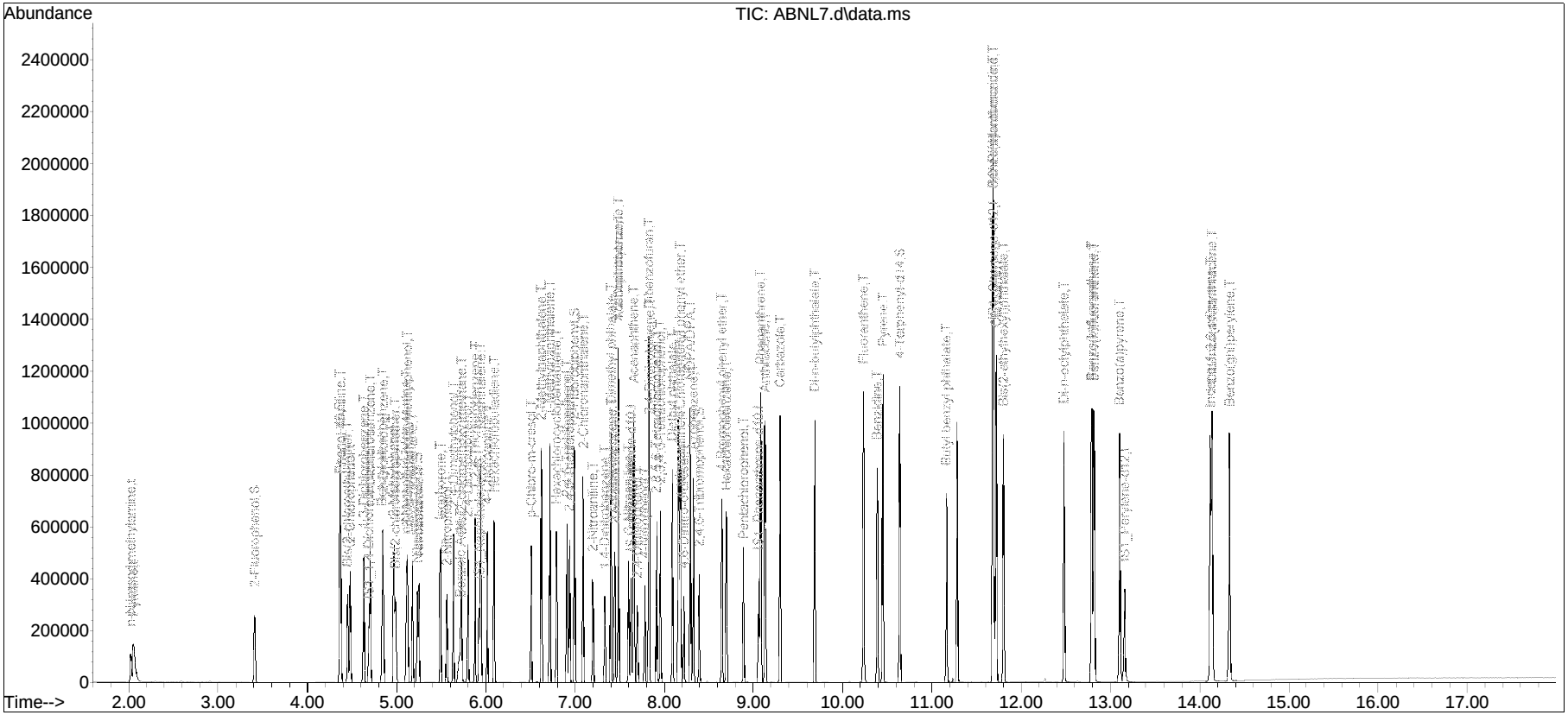
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL7.d
Acq On : 12 Oct 2020 3:43 pm
Operator : sv124:wr
Sample : IL4,32,,ABNL10 #8954
Misc : wg1422524,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 13 11:44:03 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

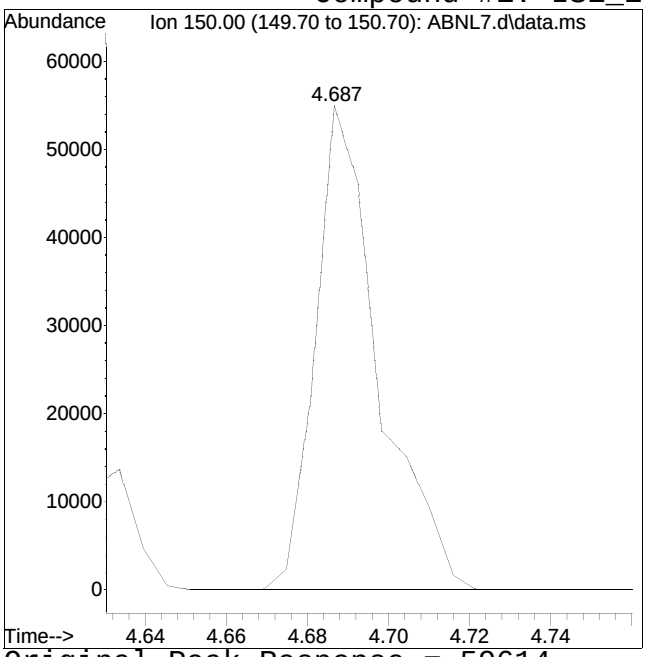
Sub List : ABNical - ABN ical sublistal\ABNL7.d•



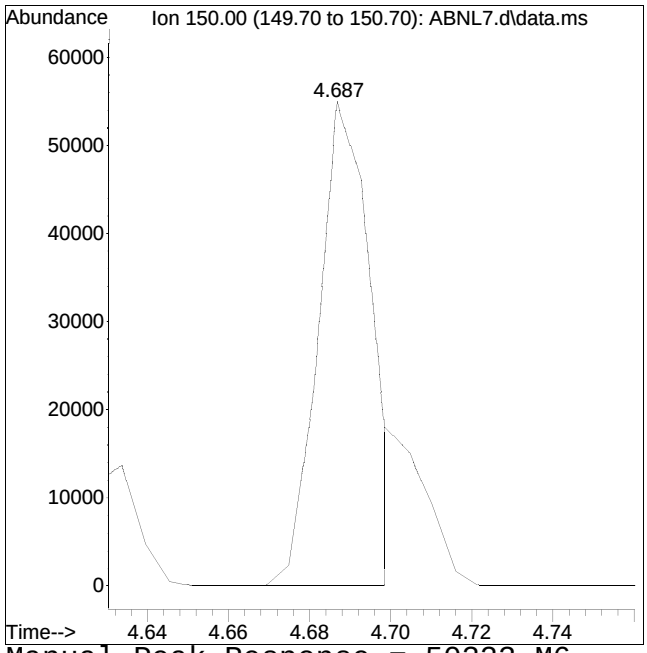
Manual Integration/Negative Proof Report

Data Path : I:\8270\SV124\201012ical\ QMethod : FS201012SV124.m
Data File : ABNL7.d Operator : sv124:wr
Date Inj'd : 10/12/2020 3:43 pm Instrument : SV 124
Sample : IL4,32,,ABNL10 #8954 Quant Date : 10/13/2020 11:12 am

Compound #1: IS1_1,4-Dichlorobenzene-d4



Original Peak Response = 59614



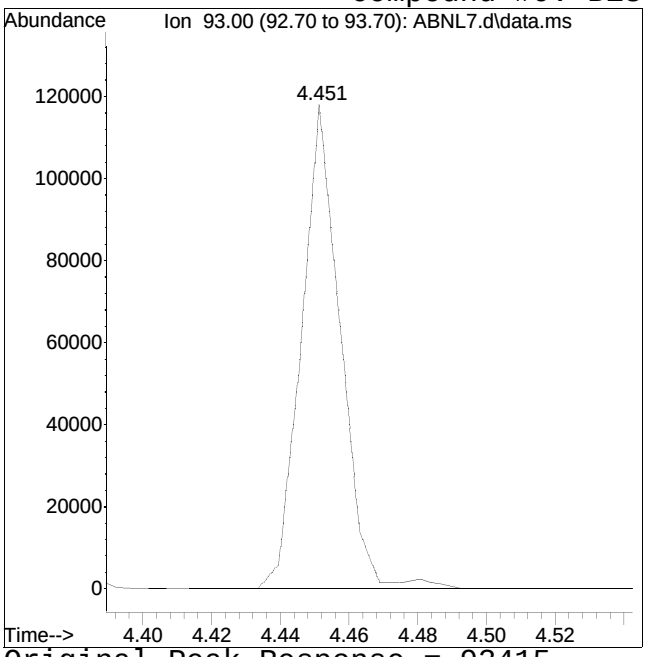
Manual Peak Response = 50323 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

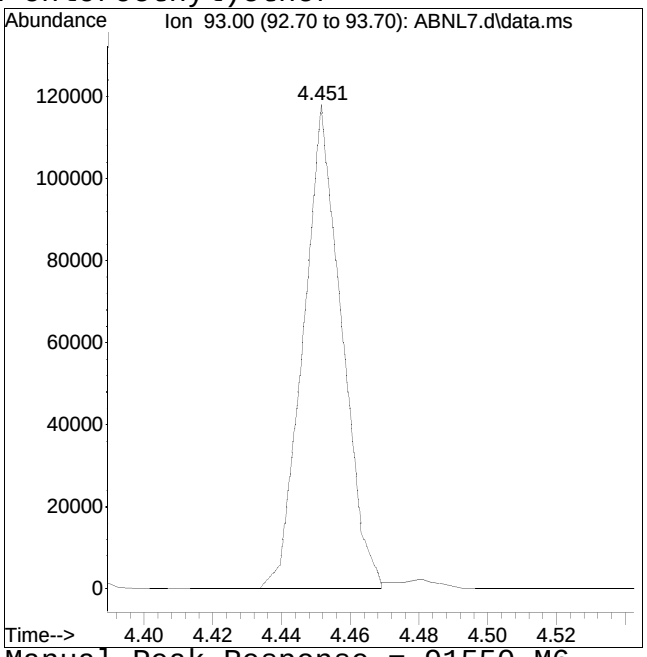
Manual Integration/Negative Proof Report

Data Path : I:\8270\SV124\201012ical\ QMethod : FS201012SV124.m
Data File : ABNL7.d Operator : sv124:wr
Date Inj'd : 10/12/2020 3:43 pm Instrument : SV 124
Sample : IL4,32,,ABNL10 #8954 Quant Date : 10/13/2020 11:12 am

Compound #9: Bis(2-chloroethyl)ether



Original Peak Response = 93415



Manual Peak Response = 91550 M6

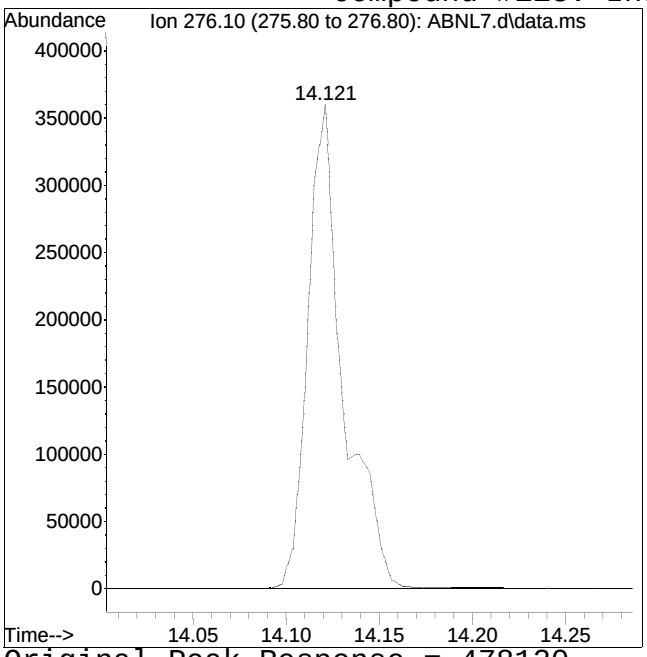
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

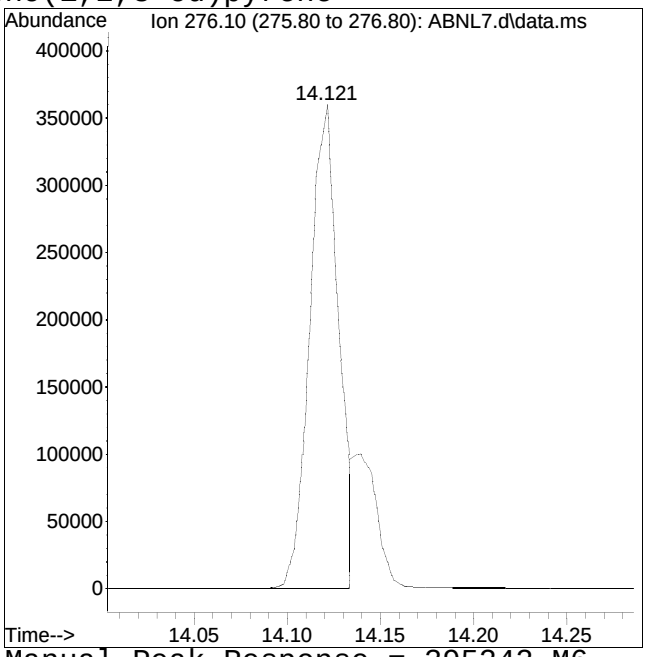
Data Path : I:\8270\SV124\201012ical\
Data File : ABNL7.d
Date Inj'd : 10/12/2020 3:43 pm
Sample : IL4,32,,ABNL10 #8954

QMethod : FS201012SV124.m
Operator : sv124:wr
Instrument : SV 124
Quant Date : 10/13/2020 11:12 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 478120



Manual Peak Response = 395242 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL6.d
Acq On : 12 Oct 2020 4:06 pm
Operator : sv124:wr
Sample : IL5,32,,ABNL5 #8953
Misc : wg1422524,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 13 12:29:01 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 12:22:26 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.687	150	53359M6	4.000	ug/ml	0.00
Standard Area 1 = 50323			Recovery = 106.03%			
34) IS1_Naphthalene-d8	5.928	136	125066	4.000	ug/ml	0.00
Standard Area 1 = 127278			Recovery = 98.26%			
62) IS1_Acenaphthene-d10	7.628	164	71395	4.000	ug/ml	0.00
Standard Area 1 = 71862			Recovery = 99.35%			
87) IS1_Phenanthrene-d10	9.057	188	137260	4.000	ug/ml	0.00
Standard Area 1 = 138593			Recovery = 99.04%			
103) IS1_Chrysene-d12	11.692	240	141033	4.000	ug/ml	0.00
Standard Area 1 = 144009			Recovery = 97.93%			
112) IS1_Perylene-d12	13.163	264	137449	4.000	ug/ml	0.00
Standard Area 1 = 139085			Recovery = 98.82%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.410	112	41856	4.847	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 96.94%			
7) Phenol-d6	4.363	99	51998	4.968	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 99.36%			
19) Nitrobenzene-d5	5.234	82	50747	5.003	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 200.12%#			
45) 2-Fluorobiphenyl	6.992	172	124270	4.929	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 197.16%#			
78) 2,4,6-Tribromophenol	8.392	330	18980	4.862	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 97.24%			
95) 4-Terphenyl-d14	10.639	244	164275	5.067	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 202.68%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.022	74	26549	4.892	ug/ml#	74
3) Pyridine	2.058	79	46370	4.956	ug/ml#	58
5) Aniline	4.369	93	71329	4.922	ug/ml#	57
6) 2-Chlorophenol	4.481	128	50241	4.953	ug/ml#	88
8) Phenol	4.375	94	62126	4.878	ug/ml#	56
9) Bis(2-chloroethyl)ether	4.451	93	45176M6	4.829	ug/ml	
10) 1,3-Dichlorobenzene	4.634	146	59083	4.885	ug/ml	97
11) 1,4-Dichlorobenzene	4.704	146	60323	4.940	ug/ml	97
12) 1,2-Dichlorobenzene	4.851	146	57475	4.850	ug/ml	97
13) Benzyl alcohol	4.840	79	37257	4.947	ug/ml	98
14) Bis(2-chloroisopropyl)...	4.987	45	68658	4.862	ug/ml#	51

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL6.d
Acq On : 12 Oct 2020 4:06 pm
Operator : sv124:wr
Sample : IL5,32,,ABNL5 #8953
Misc : wg1422524,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 13 12:29:01 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 12:22:26 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.969	108	43492	4.969	ug/ml	98
16) Hexachloroethane	5.181	117	22256	4.769	ug/ml#	75
17) n-Nitrosodi-n-propylamine	5.110	70	32492	4.919	ug/ml	94
18) 3-Methylphenol/4-Methy...	5.122	108	46509	5.010	ug/ml	97
20) Nitrobenzene	5.251	77	50115	4.942	ug/ml	99
21) Isophorone	5.493	82	90871	5.053	ug/ml	98
22) 2-Nitrophenol	5.563	139	24471	4.667	ug/ml#	87
23) 2,4-Dimethylphenol	5.634	107	50127	5.028	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.728	93	60840	4.916	ug/ml	97
25) 2,4-Dichlorophenol	5.798	162	45293	5.087	ug/ml	95
26) 1,2,4-Trichlorobenzene	5.881	180	50412	4.905	ug/ml	98
35) Naphthalene	5.945	128	159976	4.945	ug/ml	100
36) Benzoic Acid	5.698	105	27710	4.115	ug/ml	94
37) 4-Chloroaniline	6.016	65	17791	4.834	ug/ml#	63
38) Hexachlorobutadiene	6.093	225	29652	4.959	ug/ml	98
39) p-Chloro-m-cresol	6.510	107	41736	4.934	ug/ml	96
40) 2-Methylnaphthalene	6.622	142	109823	4.981	ug/ml	95
41) 1-Methylnaphthalene	6.716	115	36665	4.948	ug/ml	97
42) Hexachlorocyclopentadiene	6.792	237	38221	4.823	ug/ml	100
43) 2,4,6-Trichlorophenol	6.910	196	32484	4.814	ug/ml	98
44) 2,4,5-Trichlorophenol	6.940	196	36854	5.039	ug/ml	98
46) 2-Chloronaphthalene	7.092	162	105038	4.984	ug/ml	97
47) 2-Nitroaniline	7.198	138	28736	4.795	ug/ml#	81
48) 1,4-Dinitrobenzene	7.334	168	14940	4.615	ug/ml	77
49) 1,3-Dinitrobenzene	7.410	168	17215	4.661	ug/ml#	1
50) Dimethyl phthalate	7.398	163	127713	5.122	ug/ml#	98
51) Acenaphthylene	7.487	152	173106	5.198	ug/ml	99
52) 2,6-Dinitrotoluene	7.445	165	26075	5.070	ug/ml#	81
53) 1,2-Dinitrobenzene	7.487	168	11727	4.788	ug/ml#	1
63) 3-Nitroaniline	7.598	138	29627	5.018	ug/ml#	88
64) Acenaphthene	7.657	154	104073	4.920	ug/ml	91
65) 2,4-Dinitrophenol	7.698	184	14099	4.253	ug/ml#	87
66) Dibenzofuran	7.828	168	160091	4.934	ug/ml	98
67) 2,4-Dinitrotoluene	7.828	165	35751	4.955	ug/ml	96
68) 4-Nitrophenol	7.781	65	21183	4.707	ug/ml#	81
69) 2,3,5,6-Tetrachlorophenol	7.916	232	30980	4.743	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	7.957	232	31243	4.975	ug/ml	97
71) Diethyl phthalate	8.092	149	132273	5.077	ug/ml	99
72) Fluorene	8.157	166	124865	5.049	ug/ml	95
73) 4-Chlorophenyl phenyl ...	8.175	204	60032	4.917	ug/ml	95

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL6.d
Acq On : 12 Oct 2020 4:06 pm
Operator : sv124:wr
Sample : IL5,32,,ABNL5 #8953
Misc : wg1422524,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 13 12:29:01 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 12:22:26 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	8.187	138	28620	4.898	ug/ml	81
75)	4,6-Dinitro-o-cresol	8.222	198	17780	4.487	ug/ml#	66
76)	NDPA/DPA	8.292	169	106358	5.143	ug/ml	96
77)	Azobenzene	8.328	77	123015	5.063	ug/ml	99
79)	4-Bromophenyl phenyl e...	8.645	248	35618	4.902	ug/ml#	88
80)	Hexachlorobenzene	8.698	284	41691	4.935	ug/ml#	88
81)	Pentachlorophenol	8.886	266	24031	4.727	ug/ml	97
88)	Phenanthrene	9.081	178	194351	5.023	ug/ml	99
89)	Anthracene	9.128	178	188788	5.068	ug/ml	99
90)	Carbazole	9.298	167	171650	5.094	ug/ml	99
91)	Di-n-butylphthalate	9.686	149	202487	4.768	ug/ml	99
92)	Fluoranthene	10.233	202	206461	5.133	ug/ml#	93
93)	Benzidine	10.386	184	124637	4.367	ug/ml#	95
94)	Pyrene	10.451	202	220220	5.194	ug/ml	99
96)	Butyl benzyl phthalate	11.163	149	77140	4.394	ug/ml	88
104)	Benzo(a)anthracene	11.680	228	206851	4.988	ug/ml	99
105)	3,3'-Dichlorobenzidine	11.686	252	76118	4.848	ug/ml#	98
106)	Chrysene	11.722	228	210196	4.948	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	11.804	149	129009	4.737	ug/ml#	91
108)	Di-n-octylphthalate	12.480	149	188066	4.709	ug/ml#	73
109)	Benzo(b)fluoranthene	12.786	252	219819	5.077	ug/ml#	94
110)	Benzo(k)fluoranthene	12.816	252	190222	4.998	ug/ml#	96
111)	Benzo(a)pyrene	13.104	252	176129	5.094	ug/ml#	95
113)	Indeno(1,2,3-cd)pyrene	14.116	276	184553M6	4.894	ug/mL	
114)	Dibenzo(a,h)anthracene	14.139	278	197010	4.992	ug/ml#	91
115)	Benzo(ghi)perylene	14.333	276	194715	4.984	ug/ml#	88

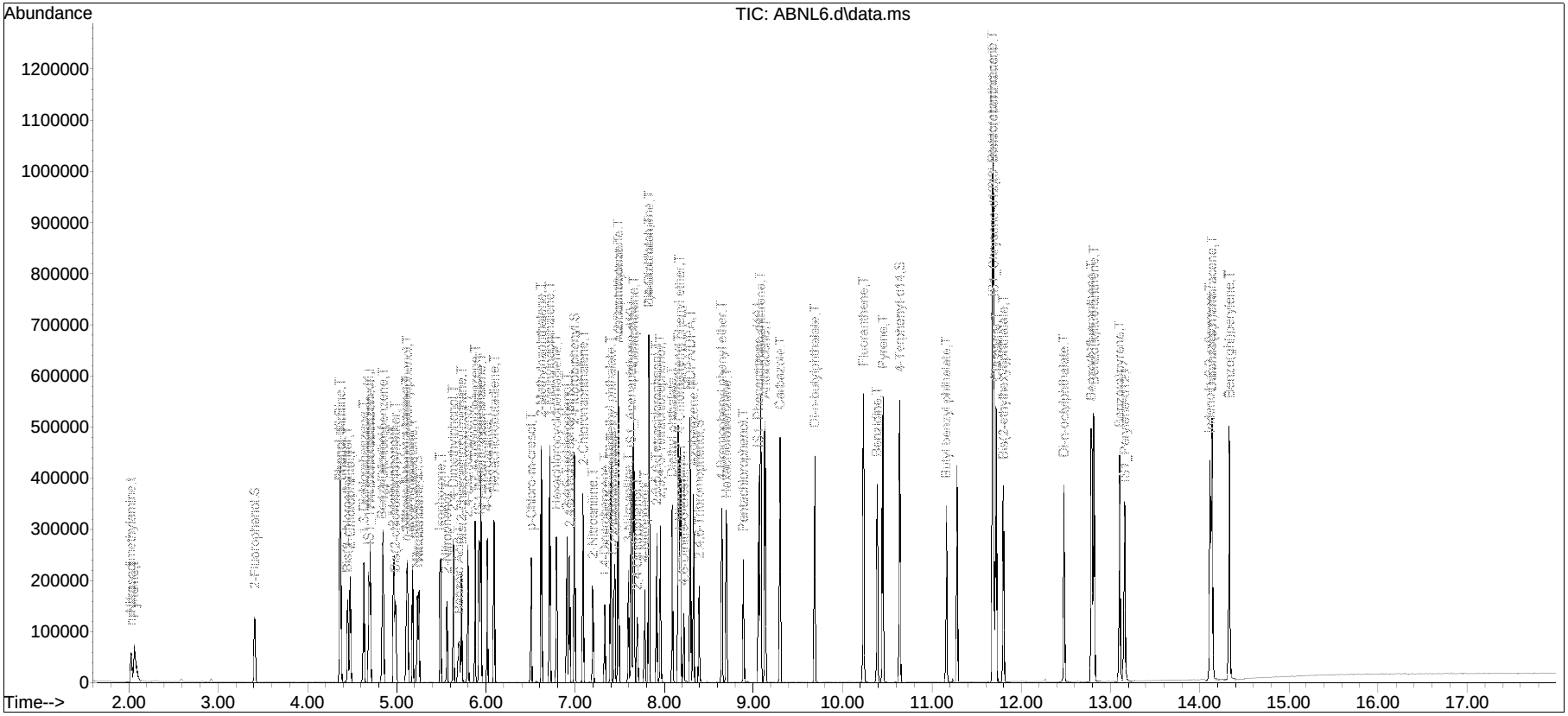
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL6.d
Acq On : 12 Oct 2020 4:06 pm
Operator : sv124:wr
Sample : IL5,32,,ABNL5 #8953
Misc : wg1422524,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 13 12:29:01 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 12:22:26 2020
Response via : Initial Calibration

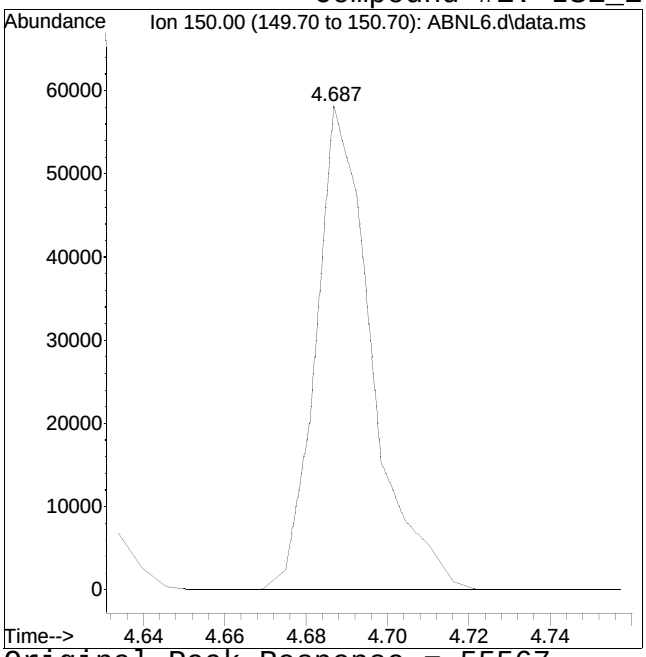
Sub List : ABNical - ABN ical sublistal\ABNL7.d•



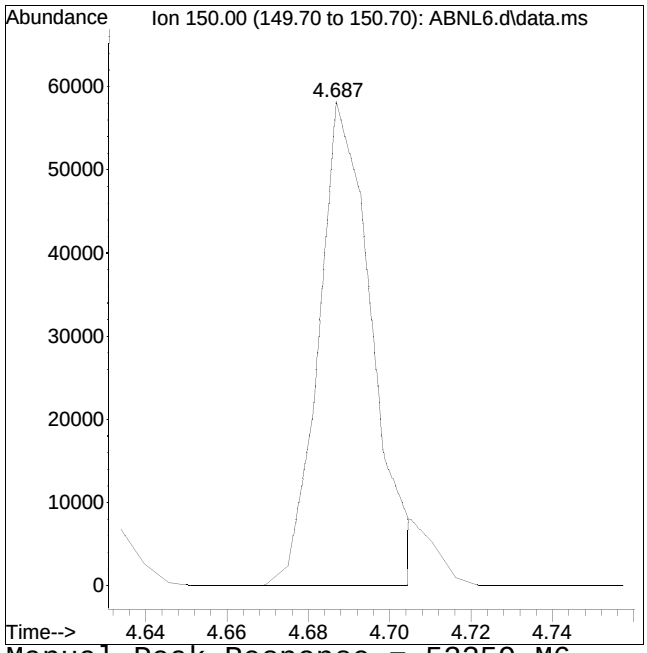
Manual Integration/Negative Proof Report

Data Path : I:\8270\SV124\201012ical\ QMethod : FS201012SV124.m
Data File : ABNL6.d Operator : sv124:wr
Date Inj'd : 10/12/2020 4:06 pm Instrument : SV 124
Sample : IL5,32,,ABNL5 #8953 Quant Date : 10/13/2020 12:28 pm

Compound #1: IS1_1,4-Dichlorobenzene-d4



Original Peak Response = 55567



Manual Peak Response = 53359 M6

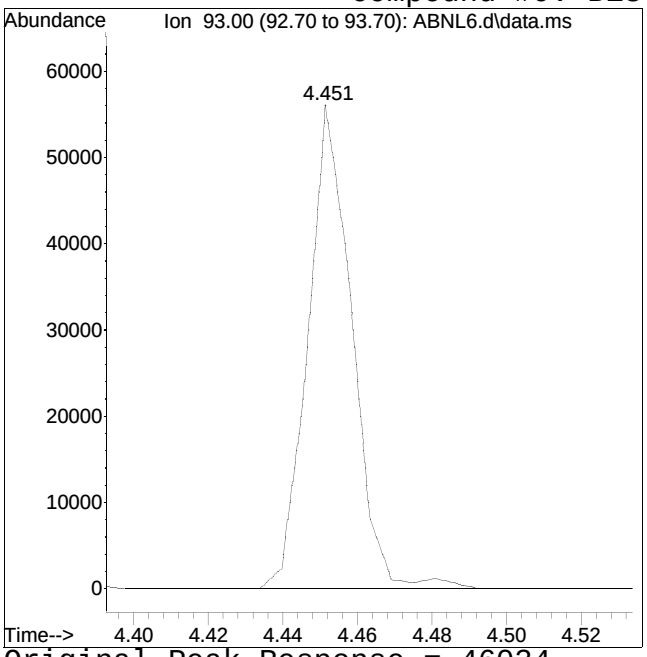
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

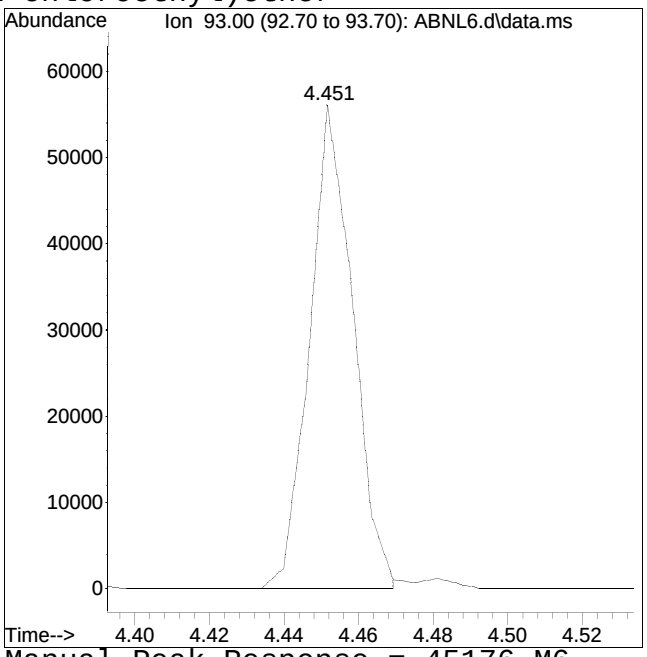
Data Path : I:\8270\SV124\201012ical\
Data File : ABNL6.d
Date Inj'd : 10/12/2020 4:06 pm
Sample : IL5,32,,ABNL5 #8953

QMethod : FS201012SV124.m
Operator : sv124:wr
Instrument : SV 124
Quant Date : 10/13/2020 12:28 pm

Compound #9: Bis(2-chloroethyl)ether



Original Peak Response = 46034



Manual Peak Response = 45176 M6

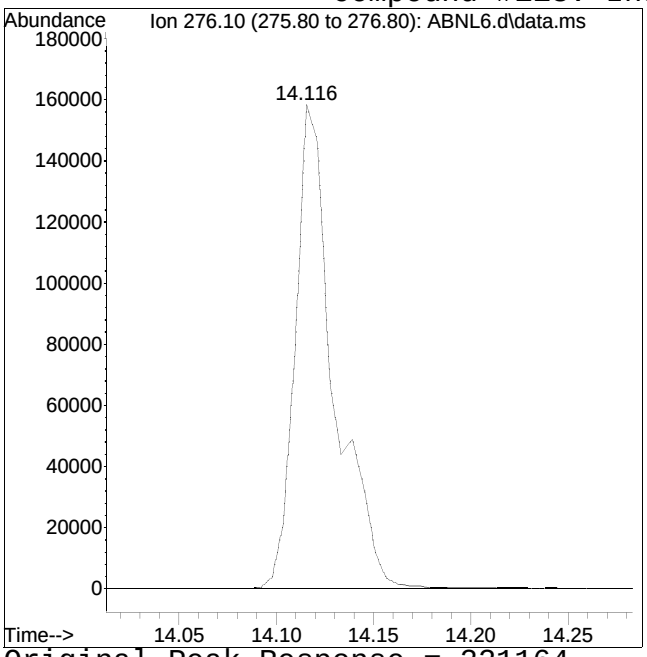
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

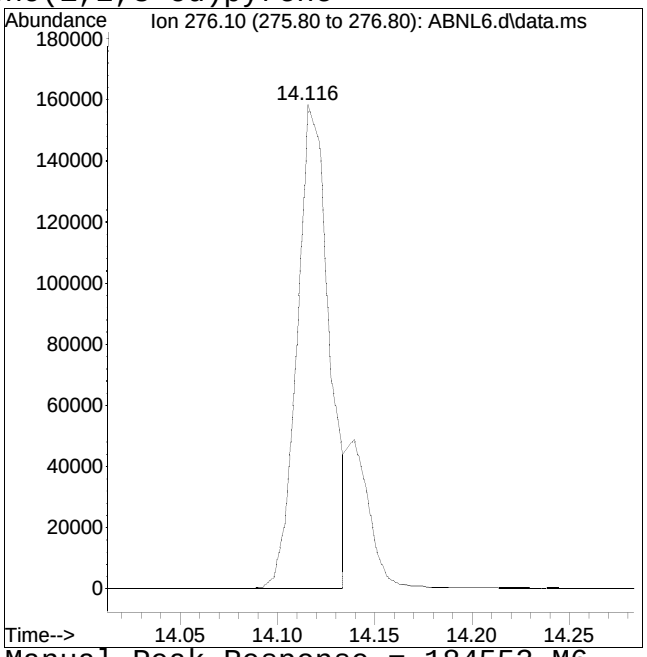
Data Path : I:\8270\SV124\201012ical\
Data File : ABNL6.d
Date Inj'd : 10/12/2020 4:06 pm
Sample : IL5,32,,ABNL5 #8953

QMethod : FS201012SV124.m
Operator : sv124:wr
Instrument : SV 124
Quant Date : 10/13/2020 12:28 pm

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 221164



Manual Peak Response = 184553 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL5.d
Acq On : 12 Oct 2020 4:29 pm
Operator : sv124:wr
Sample : IL6,32,,ABNL3 #8952
Misc : wg1422524,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 15 13:37:43 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 15 13:23:35 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.687	150	50503M6	4.000 ug/ml	0.00
Standard Area 1 = 50323			Recovery = 100.36%		
34) IS1_Naphthalene-d8	5.928	136	123666	4.000 ug/ml	0.00
Standard Area 1 = 127278			Recovery = 97.16%		
62) IS1_Acenaphthene-d10	7.628	164	69233	4.000 ug/ml	0.00
Standard Area 1 = 71862			Recovery = 96.34%		
87) IS1_Phenanthrene-d10	9.057	188	133648	4.000 ug/ml	0.00
Standard Area 1 = 138593			Recovery = 96.43%		
103) IS1_Chrysene-d12	11.692	240	134100	4.000 ug/ml	0.00
Standard Area 1 = 144009			Recovery = 93.12%		
112) IS1_Perylene-d12	13.157	264	134220	4.000 ug/ml	0.00
Standard Area 1 = 139085			Recovery = 96.50%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.410	112	24838	3.043 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 60.86%		
7) Phenol-d6	4.363	99	30646	3.097 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 61.94%		
19) Nitrobenzene-d5	5.234	82	30144	3.143 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 125.72%		
45) 2-Fluorobiphenyl	6.998	172	75471	3.027 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 121.08%		
78) 2,4,6-Tribromophenol	8.392	330	10911	2.924 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 58.48%		
95) 4-Terphenyl-d14	10.639	244	98828	3.131 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 125.24%		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.028	74	16036	3.126 ug/ml#	75
3) Pyridine	2.063	79	26827	3.033 ug/ml#	59
5) Aniline	4.369	93	42649	3.113 ug/ml#	55
6) 2-Chlorophenol	4.481	128	30043	3.133 ug/ml#	88
8) Phenol	4.375	94	37648	3.127 ug/ml#	55
9) Bis(2-chloroethyl)ether	4.451	93	27741M6	3.137 ug/ml	
10) 1,3-Dichlorobenzene	4.634	146	35069	3.067 ug/ml	98
11) 1,4-Dichlorobenzene	4.704	146	35342	3.062 ug/ml	97
12) 1,2-Dichlorobenzene	4.851	146	34865	3.112 ug/ml	97
13) Benzyl alcohol	4.839	79	21610	3.035 ug/ml	97
14) Bis(2-chloroisopropyl)...	4.987	45	41862	3.135 ug/ml#	54

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL5.d
Acq On : 12 Oct 2020 4:29 pm
Operator : sv124:wr
Sample : IL6,32,,ABNL3 #8952
Misc : wg1422524,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 15 13:37:43 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 15 13:23:35 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.969	108	25669	3.102	ug/ml	99
16) Hexachloroethane	5.181	117	13599	3.083	ug/ml#	75
17) n-Nitrosodi-n-propylamine	5.110	70	18416	2.949	ug/ml	95
18) 3-Methylphenol/4-Methy...	5.122	108	27156	3.094	ug/ml	97
20) Nitrobenzene	5.251	77	29531	3.081	ug/ml	98
21) Isophorone	5.492	82	52392	3.081	ug/ml	99
22) 2-Nitrophenol	5.563	139	14348	2.891	ug/ml#	86
23) 2,4-Dimethylphenol	5.634	107	29022	3.079	ug/ml	97
24) Bis(2-chloroethoxy)met...	5.728	93	37026	3.165	ug/ml	98
25) 2,4-Dichlorophenol	5.798	162	26304	3.125	ug/ml	94
26) 1,2,4-Trichlorobenzene	5.881	180	30695	3.160	ug/ml	97
35) Naphthalene	5.945	128	97393	3.044	ug/ml	100
36) Benzoic Acid	5.692	105	15158	3.149	ug/ml	93
37) 4-Chloroaniline	6.016	65	10576	2.906	ug/ml#	62
38) Hexachlorobutadiene	6.092	225	17606	2.978	ug/ml	98
39) p-Chloro-m-cresol	6.510	107	24653	2.948	ug/ml	98
40) 2-Methylnaphthalene	6.622	142	65198	2.990	ug/ml	94
41) 1-Methylnaphthalene	6.716	115	21506	2.935	ug/ml	95
42) Hexachlorocyclopentadiene	6.792	237	22776	2.907	ug/ml	99
43) 2,4,6-Trichlorophenol	6.910	196	18528	2.777	ug/ml	96
44) 2,4,5-Trichlorophenol	6.939	196	21408	2.960	ug/ml	100
46) 2-Chloronaphthalene	7.092	162	64687	3.104	ug/ml	96
47) 2-Nitroaniline	7.198	138	16000	2.700	ug/ml#	83
48) 1,4-Dinitrobenzene	7.333	168	8215	2.566	ug/ml	81
49) 1,3-Dinitrobenzene	7.410	168	9621	2.634	ug/ml#	1
50) Dimethyl phthalate	7.398	163	77557	3.146	ug/ml#	98
51) Acenaphthylene	7.486	152	102271	3.106	ug/ml	99
52) 2,6-Dinitrotoluene	7.445	165	14637	2.878	ug/ml#	83
53) 1,2-Dinitrobenzene	7.486	168	6933	2.863	ug/ml#	1
63) 3-Nitroaniline	7.598	138	16625	2.904	ug/ml#	90
64) Acenaphthene	7.657	154	62543	3.049	ug/ml	91
65) 2,4-Dinitrophenol	7.698	184	7625	3.279	ug/ml	89
66) Dibenzofuran	7.828	168	96538	3.068	ug/ml	98
67) 2,4-Dinitrotoluene	7.833	165	19852	2.838	ug/ml	97
68) 4-Nitrophenol	7.780	65	11963	2.742	ug/ml#	80
69) 2,3,5,6-Tetrachlorophenol	7.916	232	18076	2.854	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	7.957	232	17720	2.910	ug/ml	94
71) Diethyl phthalate	8.092	149	78765	3.117	ug/ml	99
72) Fluorene	8.157	166	73443	3.062	ug/ml	94
73) 4-Chlorophenyl phenyl ...	8.175	204	36436	3.077	ug/ml	93

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL5.d
Acq On : 12 Oct 2020 4:29 pm
Operator : sv124:wr
Sample : IL6,32,,ABNL3 #8952
Misc : wg1422524,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 15 13:37:43 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 15 13:23:35 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Nitroaniline	8.186	138	16255	2.869	ug/ml	81
75) 4,6-Dinitro-o-cresol	8.222	198	9697	2.842	ug/ml#	63
76) NDPA/DPA	8.292	169	62362	3.110	ug/ml	95
77) Azobenzene	8.327	77	71629	3.040	ug/ml	99
79) 4-Bromophenyl phenyl e...	8.645	248	21216	3.011	ug/ml#	89
80) Hexachlorobenzene	8.698	284	24760	3.022	ug/ml#	88
81) Pentachlorophenol	8.886	266	13266	2.691	ug/ml	99
88) Phenanthrene	9.080	178	117937	3.130	ug/ml	99
89) Anthracene	9.127	178	112524	3.102	ug/ml	98
90) Carbazole	9.298	167	101890	3.105	ug/ml	100
91) Di-n-butylphthalate	9.686	149	115710	2.798	ug/ml	99
92) Fluoranthene	10.233	202	120560	3.078	ug/ml#	94
93) Benzidine	10.386	184	69238	2.492	ug/ml#	95
94) Pyrene	10.451	202	132975	3.221	ug/ml	99
96) Butyl benzyl phthalate	11.163	149	41075	2.852	ug/ml	89
104) Benzo(a)anthracene	11.680	228	122716	3.112	ug/ml	99
105) 3,3'-Dichlorobenzidine	11.686	252	41872	2.805	ug/ml	97
106) Chrysene	11.721	228	124209	3.075	ug/ml	98
107) Bis(2-ethylhexyl)phtha...	11.804	149	69518	2.804	ug/ml#	92
108) Di-n-octylphthalate	12.480	149	99048	2.837	ug/ml#	73
109) Benzo(b)fluoranthene	12.792	252	129143	3.137	ug/ml#	95
110) Benzo(k)fluoranthene	12.815	252	114934	3.176	ug/ml#	93
111) Benzo(a)pyrene	13.104	252	102271	3.111	ug/ml#	95
113) Indeno(1,2,3-cd)pyrene	14.115	276	108862M6	2.956	ug/mL	
114) Dibenzo(a,h)anthracene	14.139	278	116017	3.011	ug/ml#	91
115) Benzo(ghi)perylene	14.333	276	117482	3.079	ug/ml#	88

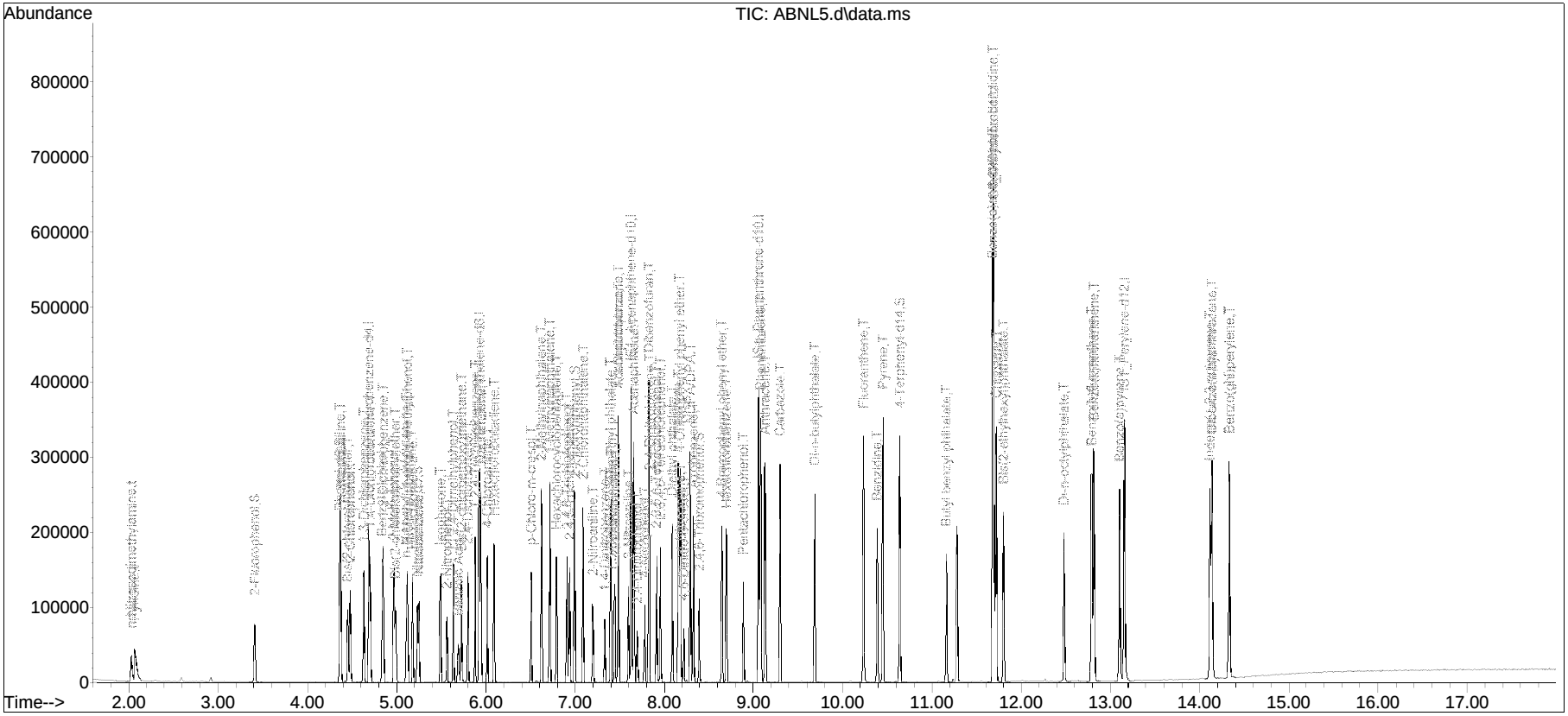
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL5.d
Acq On : 12 Oct 2020 4:29 pm
Operator : sv124:wr
Sample : IL6,32,,ABNL3 #8952
Misc : wg1422524,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 15 13:37:43 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 15 13:23:35 2020
Response via : Initial Calibration

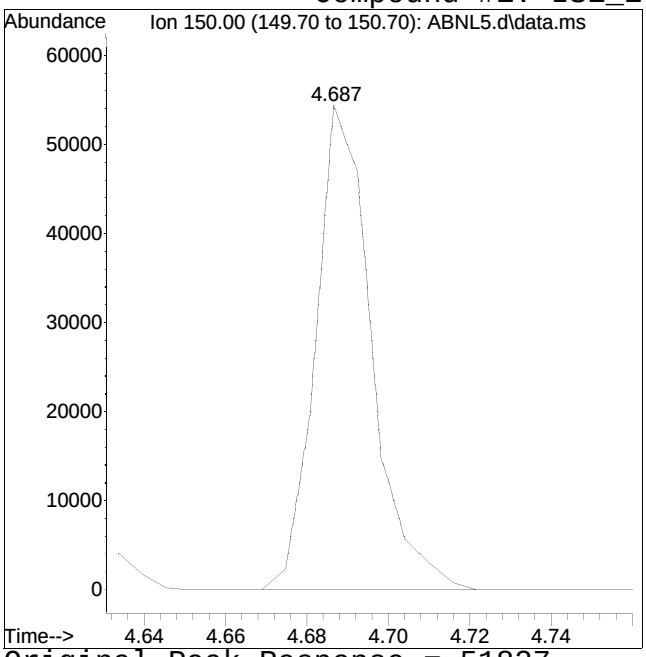
Sub List : ABNical - ABN ical sublistal\ABNL7.d•



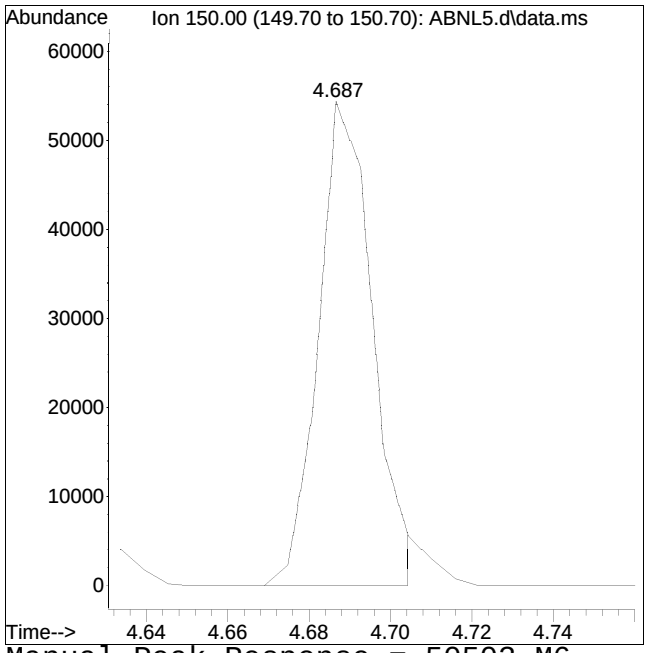
Manual Integration/Negative Proof Report

Data Path : I:\8270\SV124\201012ical\ QMethod : FS201012SV124.m
Data File : ABNL5.d Operator : sv124:wr
Date Inj'd : 10/12/2020 4:29 pm Instrument : SV 124
Sample : IL6,32,,ABNL3 #8952 Quant Date : 10/15/2020 1:37 pm

Compound #1: IS1_1,4-Dichlorobenzene-d4



Original Peak Response = 51827



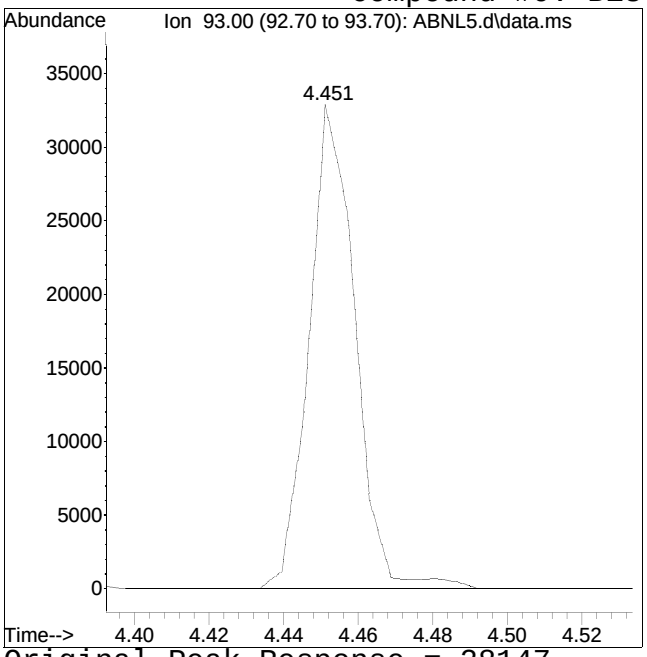
Manual Peak Response = 50503 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

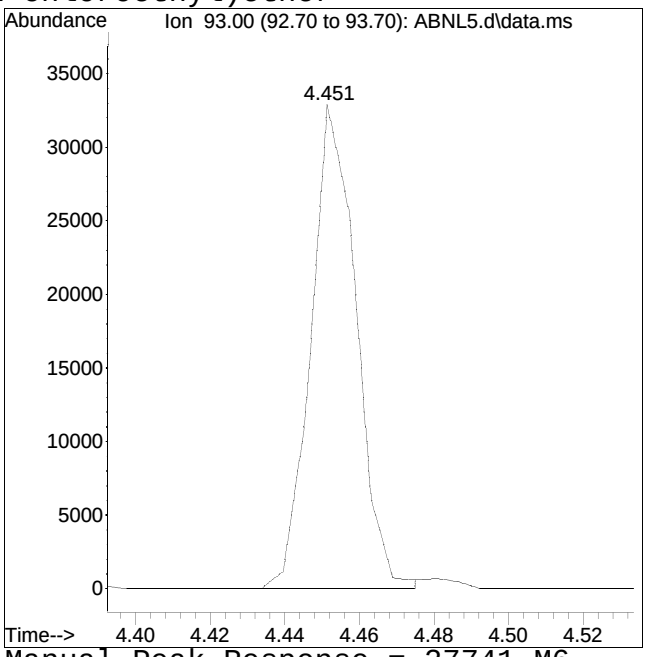
Manual Integration/Negative Proof Report

Data Path	: I:\8270\SV124\201012ical\	QMethod	: FS201012SV124.m
Data File	: ABNL5.d	Operator	: sv124:wr
Date Inj'd	: 10/12/2020 4:29 pm	Instrument	: SV 124
Sample	: IL6,32,,ABNL3 #8952	Quant Date	: 10/15/2020 1:37 pm

Compound #9: Bis(2-chloroethyl)ether



Original Peak Response = 28147



Manual Peak Response = 27741 M6

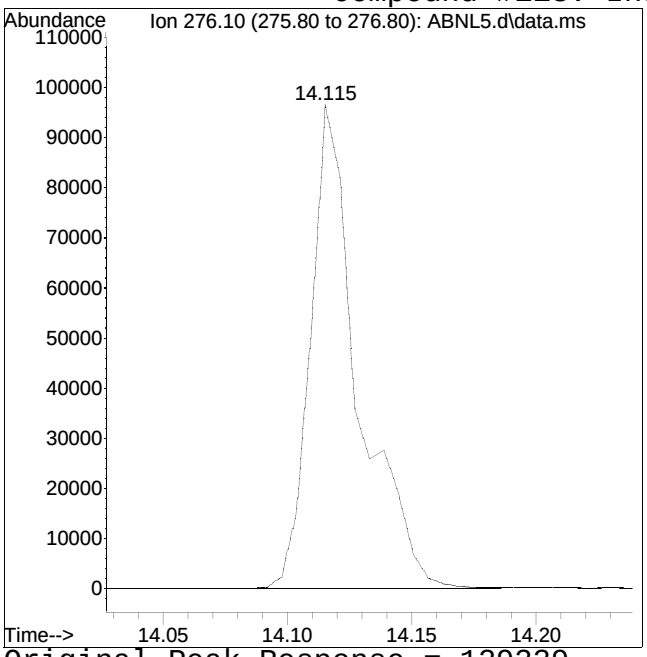
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

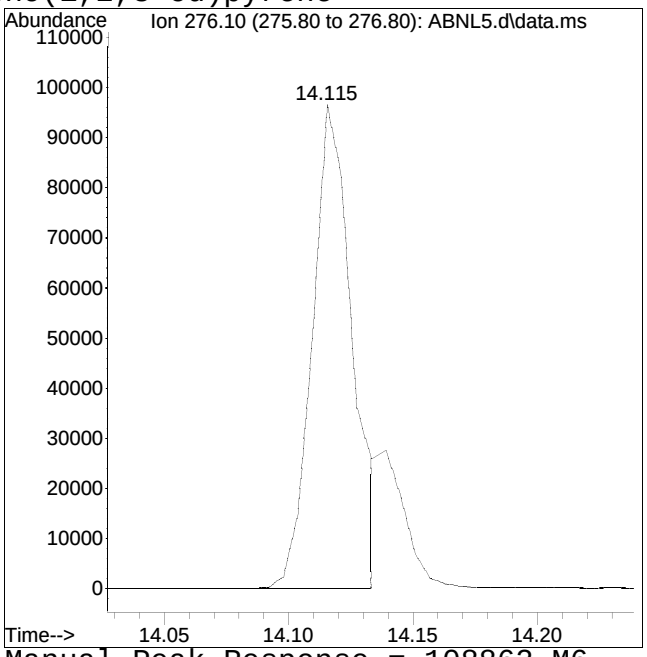
Data Path : I:\8270\SV124\201012ical\
Data File : ABNL5.d
Date Inj'd : 10/12/2020 4:29 pm
Sample : IL6,32,,ABNL3 #8952

QMethod : FS201012SV124.m
Operator : sv124:wr
Instrument : SV 124
Quant Date : 10/15/2020 1:37 pm

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 129339



Manual Peak Response = 108862 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL4.d
Acq On : 12 Oct 2020 4:53 pm
Operator : sv124:wr
Sample : IL7,32,,ABNL2 #8951
Misc : wg1422524,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 14 11:15:06 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 14 11:14:39 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.687	150	50160M6	4.000	ug/ml	0.00
Standard Area 1 = 50323			Recovery = 99.68%			
34) IS1_Naphthalene-d8	5.928	136	122029	4.000	ug/ml	0.00
Standard Area 1 = 127278			Recovery = 95.88%			
62) IS1_Acenaphthene-d10	7.628	164	69410	4.000	ug/ml	0.00
Standard Area 1 = 71862			Recovery = 96.59%			
87) IS1_Phenanthrene-d10	9.057	188	136241	4.000	ug/ml	0.00
Standard Area 1 = 138593			Recovery = 98.30%			
103) IS1_Chrysene-d12	11.692	240	134676	4.000	ug/ml	0.00
Standard Area 1 = 144009			Recovery = 93.52%			
112) IS1_Perylene-d12	13.157	264	131172	4.000	ug/ml	0.00
Standard Area 1 = 139085			Recovery = 94.31%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.410	112	17524	2.159	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 43.18%			
7) Phenol-d6	4.363	99	21020	2.136	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 42.72%			
19) Nitrobenzene-d5	5.234	82	19843	2.081	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 83.24%			
45) 2-Fluorobiphenyl	6.992	172	54052	2.197	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 87.88%			
78) 2,4,6-Tribromophenol	8.392	330	7893	2.139	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 42.78%			
95) 4-Terphenyl-d14	10.639	244	71937	2.236	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 89.44%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.028	74	11146	2.185	ug/ml#	74
3) Pyridine	2.069	79	19036	2.164	ug/ml#	57
5) Aniline	4.369	93	28986	2.128	ug/ml#	55
6) 2-Chlorophenol	4.481	128	19805	2.077	ug/ml#	86
8) Phenol	4.375	94	25643	2.142	ug/ml#	56
9) Bis(2-chloroethyl)ether	4.451	93	18913M6	2.150	ug/ml	
10) 1,3-Dichlorobenzene	4.634	146	24994	2.198	ug/ml	96
11) 1,4-Dichlorobenzene	4.704	146	24884	2.168	ug/ml	97
12) 1,2-Dichlorobenzene	4.851	146	24028	2.157	ug/ml	98
13) Benzyl alcohol	4.840	79	14716	2.079	ug/ml	97
14) Bis(2-chloroisopropyl)...	4.987	45	28760	2.166	ug/ml#	54

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL4.d
Acq On : 12 Oct 2020 4:53 pm
Operator : sv124:wr
Sample : IL7,32,,ABNL2 #8951
Misc : wg1422524,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 14 11:15:06 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 14 11:14:39 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.969	108	16995	2.066	ug/ml	93
16) Hexachloroethane	5.181	117	9404	2.143	ug/ml#	77
17) n-Nitrosodi-n-propylamine	5.110	70	13086	2.108	ug/ml	93
18) 3-Methylphenol/4-Methy...	5.122	108	18944	2.171	ug/ml	98
20) Nitrobenzene	5.251	77	20123	2.111	ug/ml	98
21) Isophorone	5.492	82	35882	2.122	ug/ml	99
22) 2-Nitrophenol	5.563	139	9468	1.921	ug/ml	87
23) 2,4-Dimethylphenol	5.634	107	20503	2.188	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.728	93	25518	2.193	ug/ml	98
25) 2,4-Dichlorophenol	5.798	162	18135	2.167	ug/ml	93
26) 1,2,4-Trichlorobenzene	5.881	180	21149	2.189	ug/ml	99
35) Naphthalene	5.945	128	68786	2.179	ug/ml	99
36) Benzoic Acid	5.687	105	9345	2.410	ug/ml	94
37) 4-Chloroaniline	6.016	65	7474	2.082	ug/ml#	66
38) Hexachlorobutadiene	6.092	225	12423	2.129	ug/ml	97
39) p-Chloro-m-cresol	6.510	107	17393	2.107	ug/ml	99
40) 2-Methylnaphthalene	6.622	142	45938	2.135	ug/ml	96
41) 1-Methylnaphthalene	6.716	115	15325	2.119	ug/ml	95
42) Hexachlorocyclopentadiene	6.792	237	15392	1.991	ug/ml	94
43) 2,4,6-Trichlorophenol	6.910	196	12771	1.940	ug/ml	97
44) 2,4,5-Trichlorophenol	6.939	196	14790	2.072	ug/ml	99
46) 2-Chloronaphthalene	7.092	162	45018	2.189	ug/ml	97
47) 2-Nitroaniline	7.198	138	10857	1.857	ug/ml	85
48) 1,4-Dinitrobenzene	7.334	168	5509	1.744	ug/ml	79
49) 1,3-Dinitrobenzene	7.404	168	6497	1.803	ug/ml#	1
50) Dimethyl phthalate	7.398	163	53507	2.200	ug/ml#	99
51) Acenaphthylene	7.486	152	71297	2.194	ug/ml	99
52) 2,6-Dinitrotoluene	7.445	165	9807	1.954	ug/ml#	85
53) 1,2-Dinitrobenzene	7.486	168	4683	1.960	ug/ml#	1
63) 3-Nitroaniline	7.598	138	10763	1.875	ug/ml#	92
64) Acenaphthene	7.657	154	44509	2.164	ug/ml	91
65) 2,4-Dinitrophenol	7.698	184	4595	2.485	ug/ml	91
66) Dibenzofuran	7.828	168	69671	2.209	ug/ml	97
67) 2,4-Dinitrotoluene	7.828	165	14084	2.008	ug/ml	99
68) 4-Nitrophenol	7.781	65	7792	1.781	ug/ml#	78
69) 2,3,5,6-Tetrachlorophenol	7.916	232	12640	1.990	ug/ml	98
70) 2,3,4,6-Tetrachlorophenol	7.957	232	12503	2.048	ug/ml	97
71) Diethyl phthalate	8.086	149	53979	2.131	ug/ml	99
72) Fluorene	8.157	166	52376	2.178	ug/ml	93
73) 4-Chlorophenyl phenyl ...	8.175	204	26322	2.218	ug/ml	92

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL4.d
Acq On : 12 Oct 2020 4:53 pm
Operator : sv124:wr
Sample : IL7,32,,ABNL2 #8951
Misc : wg1422524,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 14 11:15:06 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 14 11:14:39 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	8.186	138	11048	1.945	ug/ml	82
75)	4,6-Dinitro-o-cresol	8.222	198	6698	2.138	ug/ml#	62
76)	NDPA/DPA	8.292	169	44779	2.227	ug/ml	97
77)	Azobenzene	8.328	77	49603	2.100	ug/ml	99
79)	4-Bromophenyl phenyl e...	8.645	248	15621	2.211	ug/ml#	87
80)	Hexachlorobenzene	8.692	284	17780	2.165	ug/ml#	89
81)	Pentachlorophenol	8.892	266	9027	1.827	ug/ml	99
88)	Phenanthrene	9.081	178	83452	2.173	ug/ml	100
89)	Anthracene	9.128	178	80884	2.187	ug/ml	99
90)	Carbazole	9.298	167	71587	2.140	ug/ml	99
91)	Di-n-butylphthalate	9.686	149	77548	1.840	ug/ml	98
92)	Fluoranthene	10.233	202	85144	2.133	ug/ml#	93
93)	Benzidine	10.386	184	46367	1.637	ug/ml#	95
94)	Pyrene	10.451	202	92197	2.191	ug/ml	99
96)	Butyl benzyl phthalate	11.163	149	26433	1.994	ug/ml	90
104)	Benzo(a)anthracene	11.680	228	84356	2.130	ug/ml	99
105)	3,3'-Dichlorobenzidine	11.686	252	29062	1.938	ug/ml	97
106)	Chrysene	11.722	228	89965	2.218	ug/ml	99
107)	Bis(2-ethylhexyl)phtha...	11.804	149	44638	1.968	ug/ml#	91
108)	Di-n-octylphthalate	12.480	149	62064	1.943	ug/ml#	74
109)	Benzo(b)fluoranthene	12.786	252	90549	2.190	ug/ml#	93
110)	Benzo(k)fluoranthene	12.816	252	78181	2.151	ug/ml#	96
111)	Benzo(a)pyrene	13.104	252	68803	2.084	ug/ml#	94
113)	Indeno(1,2,3-cd)pyrene	14.115	276	74548M6	2.071	ug/mL	
114)	Dibenzo(a,h)anthracene	14.139	278	79858	2.120	ug/ml#	90
115)	Benzo(ghi)perylene	14.333	276	81640	2.190	ug/ml#	87

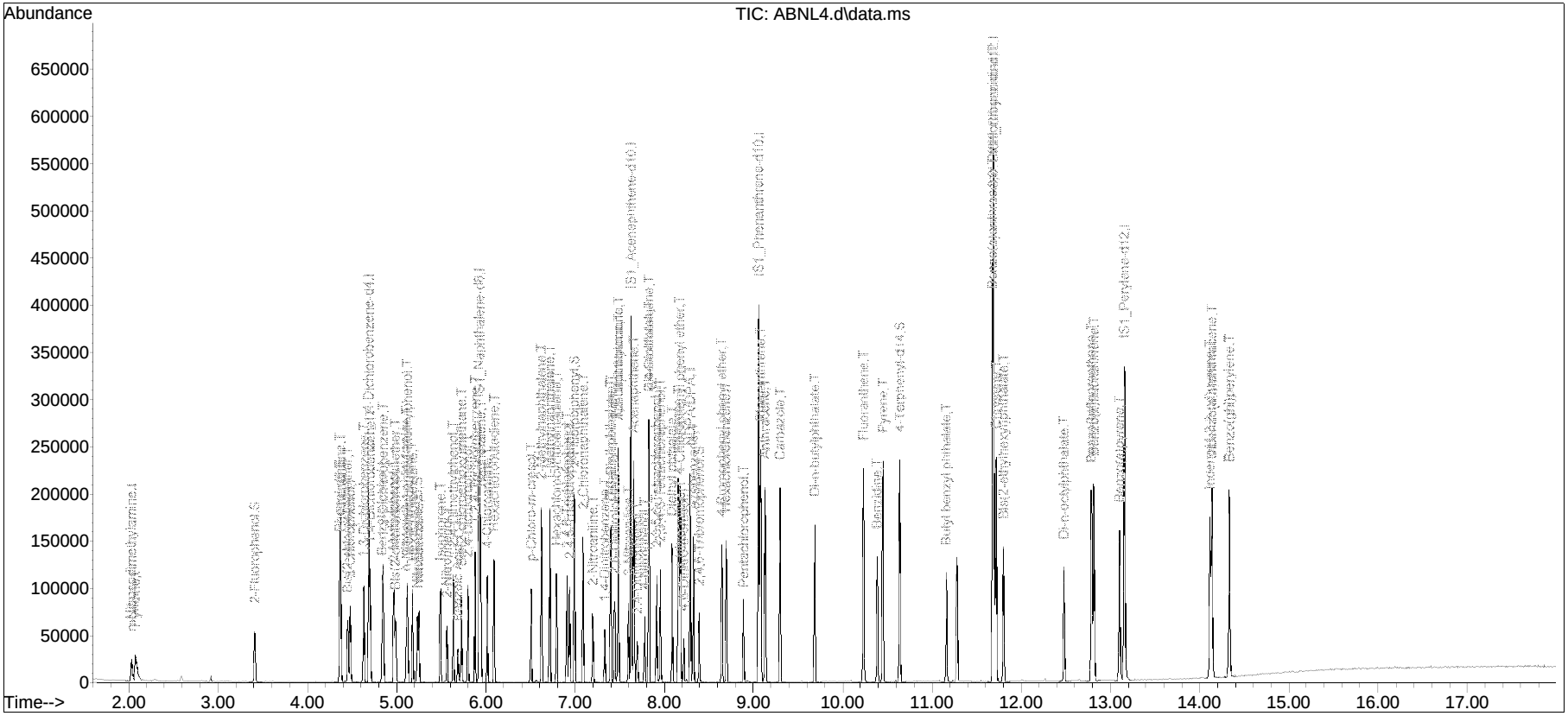
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL4.d
Acq On : 12 Oct 2020 4:53 pm
Operator : sv124:wr
Sample : IL7,32,,ABNL2 #8951
Misc : wg1422524,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 14 11:15:06 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 14 11:14:39 2020
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\ABNL7.d•

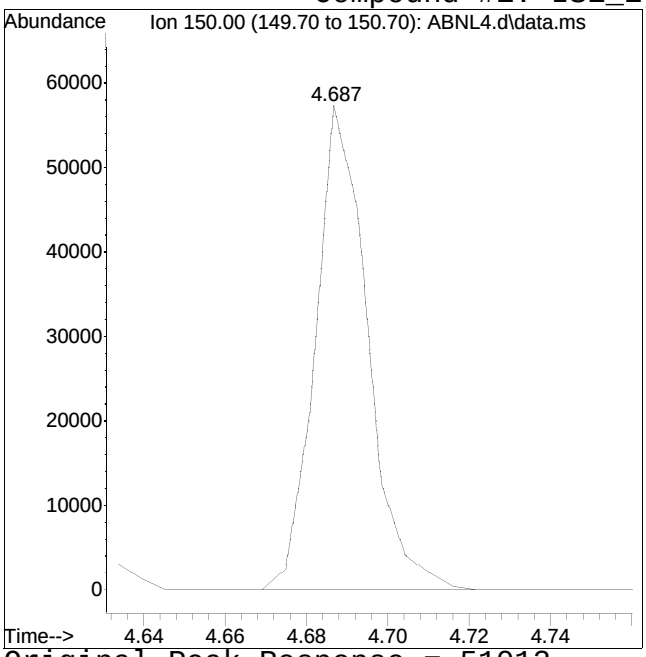


Manual Integration/Negative Proof Report

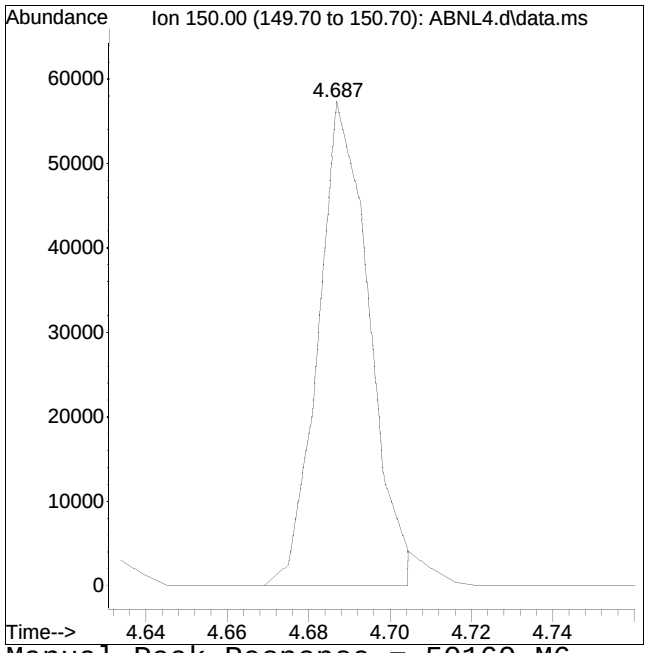
Data Path : I:\8270\SV124\201012ical\
Data File : ABNL4.d
Date Inj'd : 10/12/2020 4:53 pm
Sample : IL7,32,,ABNL2 #8951

QMethod : FS201012SV124.m
Operator : sv124:wr
Instrument : SV 124
Quant Date : 10/14/2020 11:14 am

Compound #1: IS1_1,4-Dichlorobenzene-d4



Original Peak Response = 51012



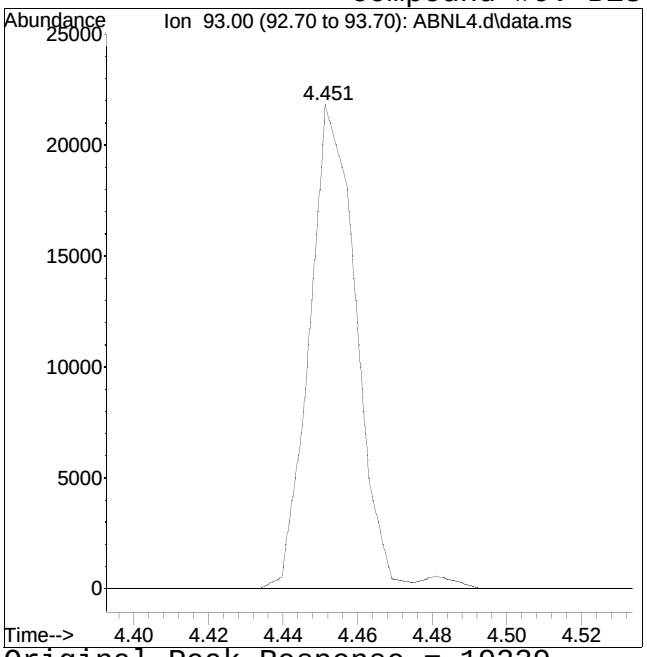
Manual Peak Response = 50160 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

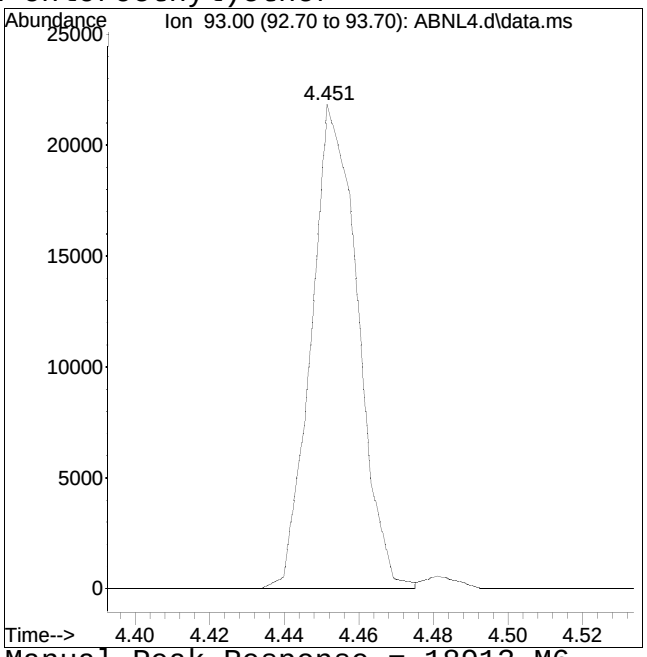
Manual Integration/Negative Proof Report

Data Path : I:\8270\SV124\201012ical\ QMethod : FS201012SV124.m
Data File : ABNL4.d Operator : sv124:wr
Date Inj'd : 10/12/2020 4:53 pm Instrument : SV 124
Sample : IL7,32,,ABNL2 #8951 Quant Date : 10/14/2020 11:14 am

Compound #9: Bis(2-chloroethyl)ether



Original Peak Response = 19239



Manual Peak Response = 18913 M6

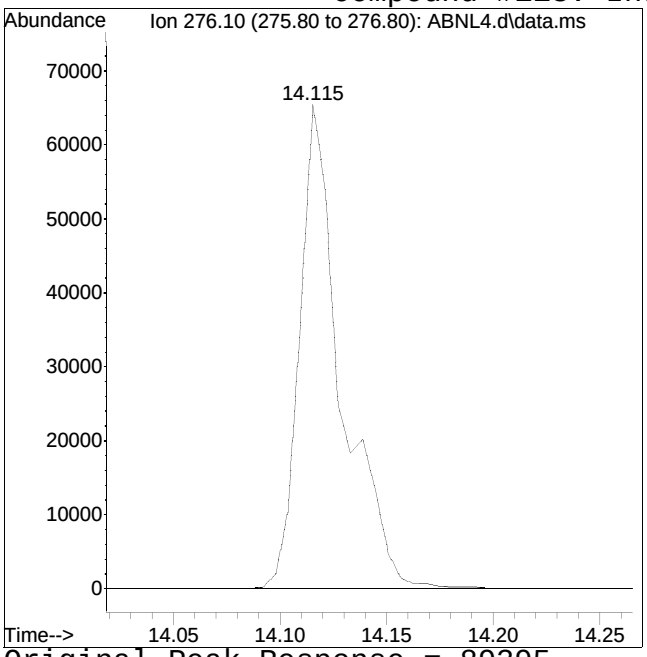
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

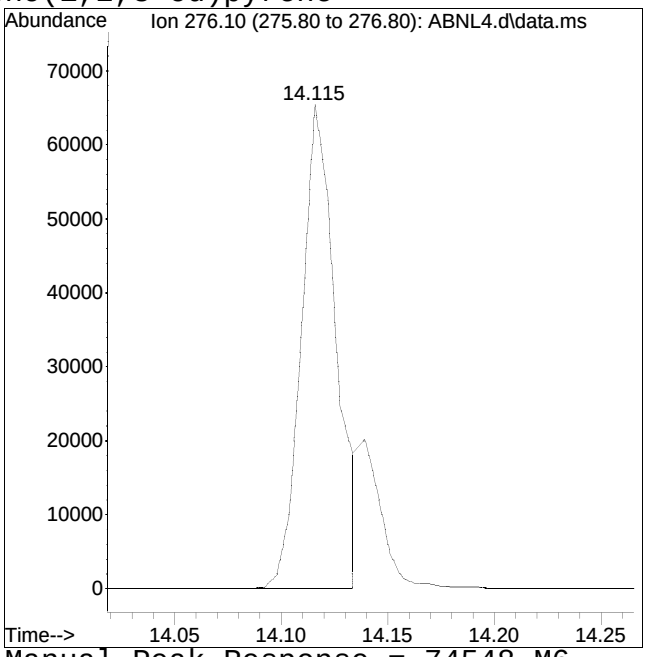
Data Path : I:\8270\SV124\201012ical\
Data File : ABNL4.d
Date Inj'd : 10/12/2020 4:53 pm
Sample : IL7,32,,ABNL2 #8951

QMethod : FS201012SV124.m
Operator : sv124:wr
Instrument : SV 124
Quant Date : 10/14/2020 11:14 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 89395



Manual Peak Response = 74548 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL3.d
Acq On : 12 Oct 2020 5:16 pm
Operator : sv124:wr
Sample : IL8,32,,ABNL1 #8950
Misc : wg1422524,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 15 13:22:49 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 14 11:12:03 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.687	150	48632M6	4.000	ug/ml	0.00
Standard Area 1 = 50323			Recovery = 96.64%			
34) IS1_Naphthalene-d8	5.928	136	120370	4.000	ug/ml	0.00
Standard Area 1 = 127278			Recovery = 94.57%			
62) IS1_Acenaphthene-d10	7.628	164	67141	4.000	ug/ml	0.00
Standard Area 1 = 71862			Recovery = 93.43%			
87) IS1_Phenanthrene-d10	9.057	188	133364	4.000	ug/ml	0.00
Standard Area 1 = 138593			Recovery = 96.23%			
103) IS1_Chrysene-d12	11.692	240	126102	4.000	ug/ml	0.00
Standard Area 1 = 144009			Recovery = 87.57%			
112) IS1_Perylene-d12	13.163	264	123664	4.000	ug/ml	0.00
Standard Area 1 = 139085			Recovery = 88.91%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.410	112	7831	0.995	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 19.90%			
7) Phenol-d6	4.363	99	9430	0.988	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 19.76%			
19) Nitrobenzene-d5	5.234	82	8825	0.955	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 38.20%			
45) 2-Fluorobiphenyl	6.992	172	23838	0.982	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 39.28%			
78) 2,4,6-Tribromophenol	8.392	330	2890	0.873	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 17.46%			
95) 4-Terphenyl-d14	10.639	244	29062	0.923	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 36.92%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.034	74	5056	1.022	ug/ml#	75
3) Pyridine	2.087	79	8334	0.977	ug/ml#	60
5) Aniline	4.369	93	13070	0.990	ug/ml#	56
6) 2-Chlorophenol	4.481	128	8960	0.969	ug/ml#	88
8) Phenol	4.375	94	11405	0.983	ug/ml#	55
9) Bis(2-chloroethyl)ether	4.451	93	8678M6	1.018	ug/ml	
10) 1,3-Dichlorobenzene	4.634	146	11510	1.044	ug/ml	98
11) 1,4-Dichlorobenzene	4.704	146	11648	1.047	ug/ml	99
12) 1,2-Dichlorobenzene	4.851	146	11306	1.047	ug/ml	95
13) Benzyl alcohol	4.840	79	6373	0.929	ug/ml	95
14) Bis(2-chloroisopropyl)...	4.987	45	12827	0.997	ug/ml#	52

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL3.d
Acq On : 12 Oct 2020 5:16 pm
Operator : sv124:wr
Sample : IL8,32,,ABNL1 #8950
Misc : wg1422524,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 15 13:22:49 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 14 11:12:03 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.969	108	7659	0.960	ug/ml	98
16) Hexachloroethane	5.181	117	4386	1.031	ug/ml#	80
17) n-Nitrosodi-n-propylamine	5.110	70	5517	0.916	ug/ml#	87
18) 3-Methylphenol/4-Methy...	5.122	108	7824	0.925	ug/ml	96
20) Nitrobenzene	5.251	77	8780	0.950	ug/ml#	96
21) Isophorone	5.492	82	14619	0.892	ug/ml	99
22) 2-Nitrophenol	5.563	139	3929	0.822	ug/ml#	89
23) 2,4-Dimethylphenol	5.634	107	8562	0.942	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.728	93	11103	0.984	ug/ml	97
25) 2,4-Dichlorophenol	5.798	162	7465	0.920	ug/ml	96
26) 1,2,4-Trichlorobenzene	5.881	180	9770	1.043	ug/ml	96
35) Naphthalene	5.945	128	30278	0.972	ug/ml	99
36) Benzoic Acid	5.681	105	2825	1.571	ug/ml#	89
37) 4-Chloroaniline	6.016	65	3192	0.901	ug/ml#	64
38) Hexachlorobutadiene	6.092	225	5673	0.986	ug/ml	97
39) p-Chloro-m-cresol	6.510	107	7227	0.888	ug/ml	97
40) 2-Methylnaphthalene	6.622	142	19932	0.939	ug/ml	95
41) 1-Methylnaphthalene	6.716	115	6590	0.924	ug/ml	91
42) Hexachlorocyclopentadiene	6.792	237	6971	0.914	ug/ml	97
43) 2,4,6-Trichlorophenol	6.910	196	5336	0.822	ug/ml	97
44) 2,4,5-Trichlorophenol	6.939	196	5838	0.829	ug/ml	97
46) 2-Chloronaphthalene	7.092	162	20457	1.009	ug/ml	97
47) 2-Nitroaniline	7.198	138	4313	0.748	ug/ml#	82
48) 1,4-Dinitrobenzene	7.334	168	2301	0.739	ug/ml	76
49) 1,3-Dinitrobenzene	7.410	168	2497	0.702	ug/ml#	1
50) Dimethyl phthalate	7.398	163	22038	0.918	ug/ml#	98
51) Acenaphthylene	7.486	152	29850	0.931	ug/ml	99
52) 2,6-Dinitrotoluene	7.445	165	3776	0.763	ug/ml#	85
53) 1,2-Dinitrobenzene	7.486	168	1692	0.718	ug/ml#	1
63) 3-Nitroaniline	7.598	138	4473	0.806	ug/ml#	81
64) Acenaphthene	7.657	154	19531	0.982	ug/ml	93
65) 2,4-Dinitrophenol	7.698	184	1811	1.776	ug/ml#	86
66) Dibenzofuran	7.828	168	29887	0.980	ug/ml	98
67) 2,4-Dinitrotoluene	7.834	165	5044	0.743	ug/ml	91
68) 4-Nitrophenol	7.781	65	2871	0.678	ug/ml#	79
69) 2,3,5,6-Tetrachlorophenol	7.916	232	4821	0.785	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	7.957	232	5043	0.854	ug/ml	100
71) Diethyl phthalate	8.086	149	22674	0.925	ug/ml	98
72) Fluorene	8.157	166	22520	0.968	ug/ml	95
73) 4-Chlorophenyl phenyl ...	8.175	204	11788	1.027	ug/ml	90

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL3.d
Acq On : 12 Oct 2020 5:16 pm
Operator : sv124:wr
Sample : IL8,32,,ABNL1 #8950
Misc : wg1422524,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 15 13:22:49 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 14 11:12:03 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	8.181	138	4229	0.770	ug/ml	88
75)	4,6-Dinitro-o-cresol	8.222	198	2342	1.318	ug/ml#	62
76)	NDPA/DPA	8.292	169	17642	0.907	ug/ml	93
77)	Azobenzene	8.328	77	20344	0.890	ug/ml	98
79)	4-Bromophenyl phenyl e...	8.645	248	6558	0.960	ug/ml#	87
80)	Hexachlorobenzene	8.698	284	7823	0.985	ug/ml#	90
81)	Pentachlorophenol	8.886	266	3461	0.724	ug/ml	99
88)	Phenanthrene	9.081	178	36716	0.977	ug/ml	98
89)	Anthracene	9.128	178	33433	0.924	ug/ml	99
90)	Carbazole	9.298	167	28693	0.876	ug/ml	98
91)	Di-n-butylphthalate	9.686	149	30455	0.738	ug/ml	99
92)	Fluoranthene	10.233	202	34981	0.895	ug/ml#	93
93)	Benzidine	10.386	184	18251	0.658	ug/ml#	95
94)	Pyrene	10.451	202	37460	0.909	ug/ml	100
96)	Butyl benzyl phthalate	11.163	149	10133	1.091	ug/ml	92
104)	Benzo(a)anthracene	11.686	228	35019	0.945	ug/ml	99
105)	3,3'-Dichlorobenzidine	11.686	252	10943	0.780	ug/ml	99
106)	Chrysene	11.722	228	38323	1.009	ug/ml	99
107)	Bis(2-ethylhexyl)phtha...	11.804	149	15725	1.044	ug/ml#	91
108)	Di-n-octylphthalate	12.480	149	23053	1.036	ug/ml#	76
109)	Benzo(b)fluoranthene	12.786	252	35755	0.924	ug/ml#	94
110)	Benzo(k)fluoranthene	12.816	252	31535	0.927	ug/ml#	96
111)	Benzo(a)pyrene	13.104	252	26636	0.862	ug/ml#	94
113)	Indeno(1,2,3-cd)pyrene	14.115	276	28756M6	0.848	ug/mL	
114)	Dibenzo(a,h)anthracene	14.139	278	32100	0.904	ug/ml#	90
115)	Benzo(ghi)perylene	14.333	276	32827	0.934	ug/ml#	87

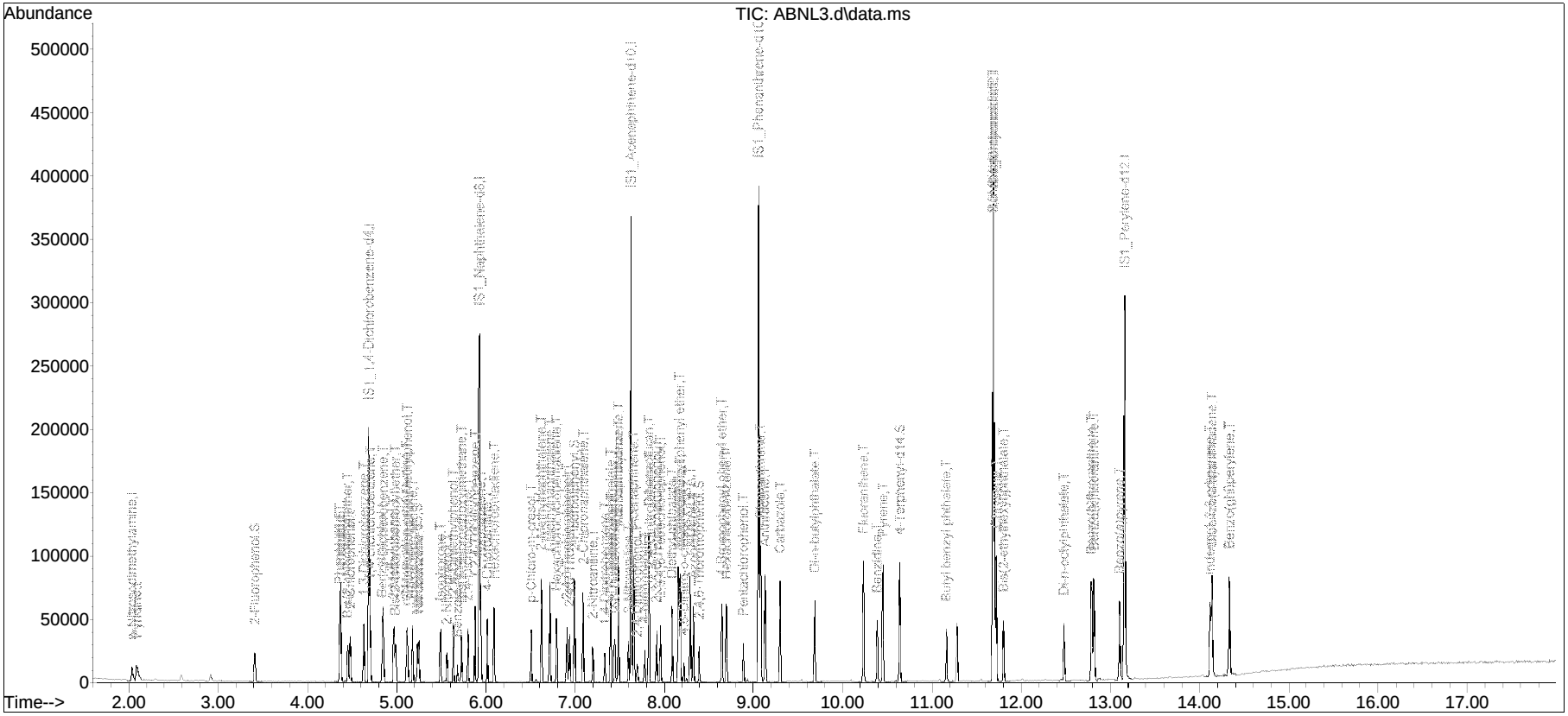
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL3.d
Acq On : 12 Oct 2020 5:16 pm
Operator : sv124:wr
Sample : IL8,32,,ABNL1 #8950
Misc : wg1422524,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 15 13:22:49 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 14 11:12:03 2020
Response via : Initial Calibration

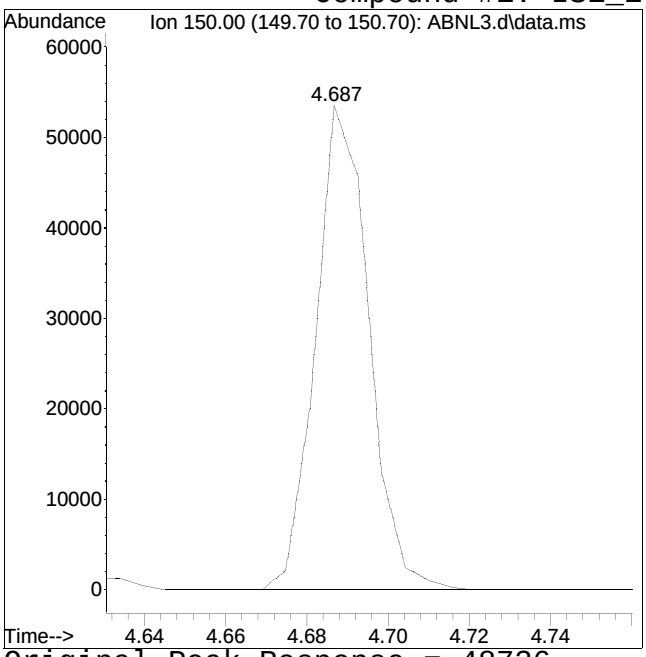
Sub List : ABNical - ABN ical sublistal\ABNL7.d•



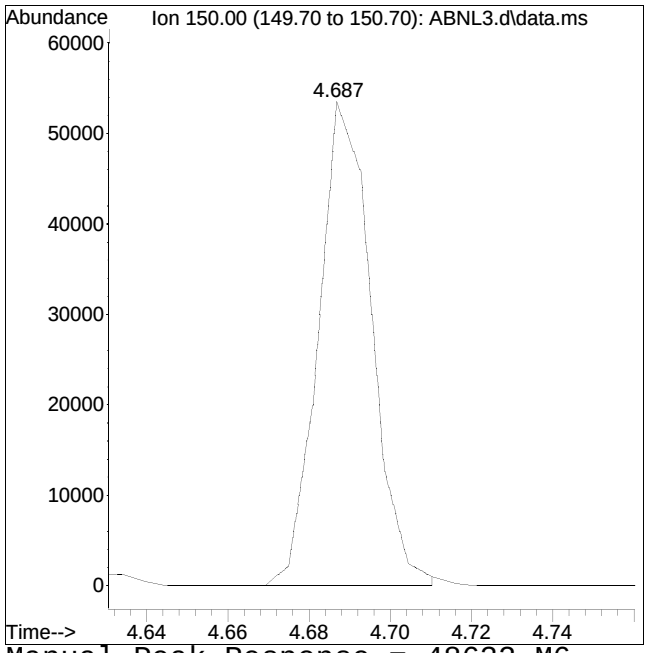
Manual Integration/Negative Proof Report

Data Path : I:\8270\SV124\201012ical\ QMethod : FS201012SV124.m
Data File : ABNL3.d Operator : sv124:wr
Date Inj'd : 10/12/2020 5:16 pm Instrument : SV 124
Sample : IL8,32,,ABNL1 #8950 Quant Date : 10/14/2020 11:12 am

Compound #1: IS1_1,4-Dichlorobenzene-d4



Original Peak Response = 48736



Manual Peak Response = 48632 M6

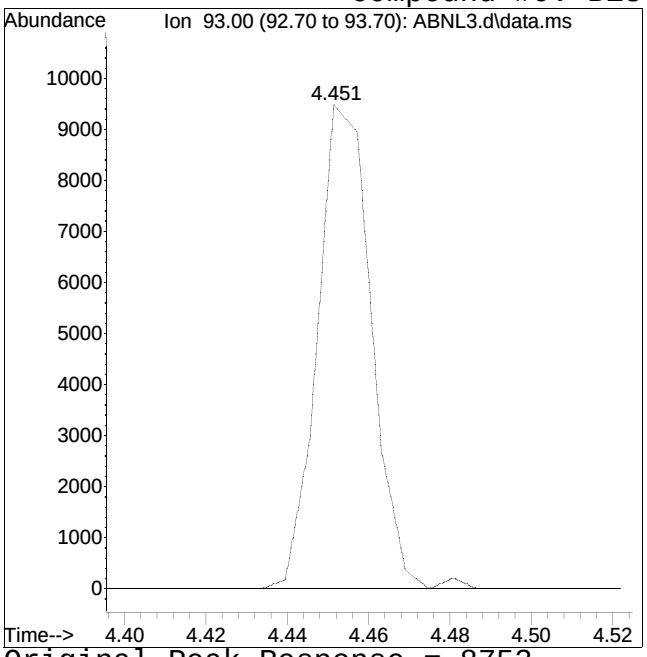
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

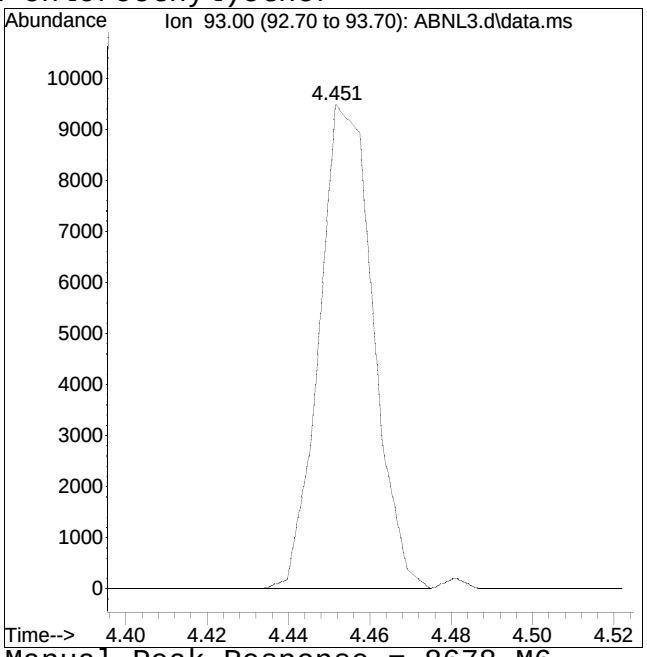
Data Path : I:\8270\SV124\201012ical\
Data File : ABNL3.d
Date Inj'd : 10/12/2020 5:16 pm
Sample : IL8,32,,ABNL1 #8950

QMethod : FS201012SV124.m
Operator : sv124:wr
Instrument : SV 124
Quant Date : 10/14/2020 11:12 am

Compound #9: Bis(2-chloroethyl)ether



Original Peak Response = 8753



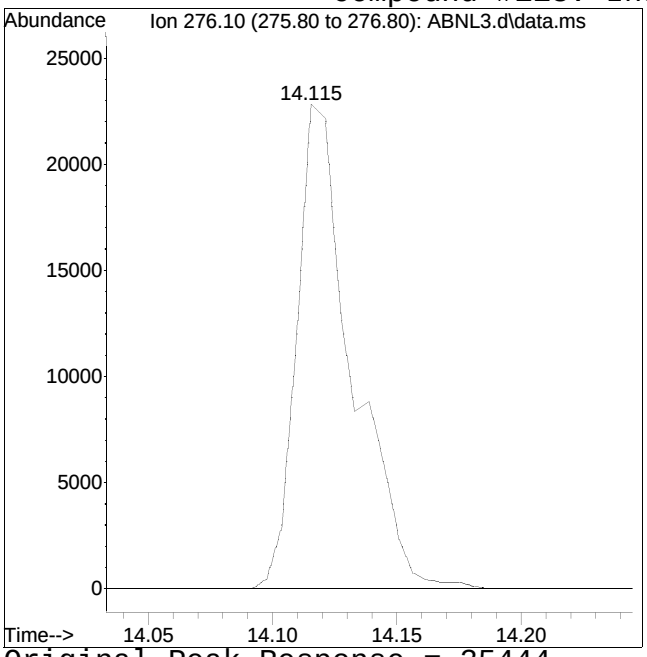
Manual Peak Response = 8678 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

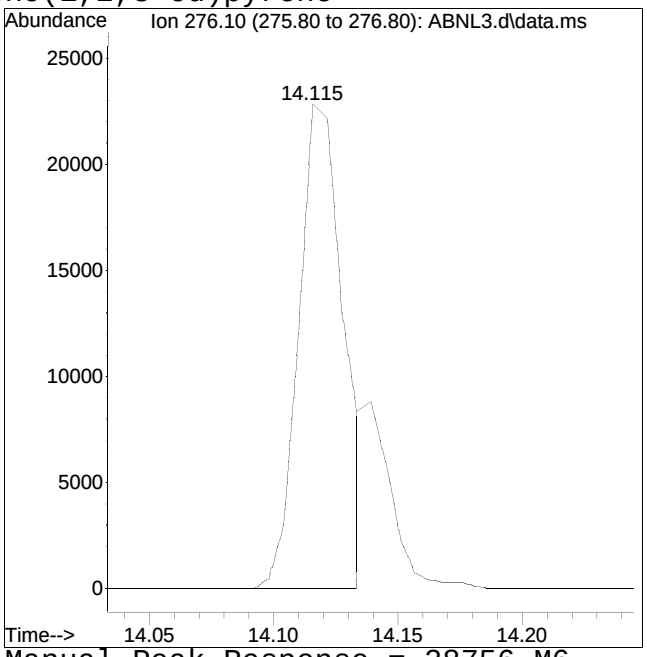
Manual Integration/Negative Proof Report

Data Path	: I:\8270\SV124\201012ical\	QMethod	: FS201012SV124.m
Data File	: ABNL3.d	Operator	: sv124:wr
Date Inj'd	: 10/12/2020 5:16 pm	Instrument	: SV 124
Sample	: IL8,32,,ABNL1 #8950	Quant Date	: 10/14/2020 11:12 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 35444



Manual Peak Response = 28756 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL2.d
Acq On : 12 Oct 2020 5:39 pm
Operator : sv124:wr
Sample : IL9,32,,ABNL0.4 #8949
Misc : wg1422524,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 15 15:42:32 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 15 15:42:23 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.687	150	49047M6	4.000	ug/ml	0.00
Standard Area 1 = 50323			Recovery = 97.46%			
34) IS1_Naphthalene-d8	5.928	136	122269	4.000	ug/ml	0.00
Standard Area 1 = 127278			Recovery = 96.06%			
62) IS1_Acenaphthene-d10	7.628	164	66182	4.000	ug/ml	0.00
Standard Area 1 = 71862			Recovery = 92.10%			
87) IS1_Phenanthrene-d10	9.057	188	133180	4.000	ug/ml	0.00
Standard Area 1 = 138593			Recovery = 96.09%			
103) IS1_Chrysene-d12	11.692	240	121891	4.000	ug/ml	0.00
Standard Area 1 = 144009			Recovery = 84.64%			
112) IS1_Perylene-d12	13.163	264	116937	4.000	ug/ml	0.00
Standard Area 1 = 139085			Recovery = 84.08%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.410	112	3251	0.410	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 8.20%#			
7) Phenol-d6	4.363	99	3462	0.360	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 7.20%#			
19) Nitrobenzene-d5	5.234	82	3391	0.364	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 14.56%#			
45) 2-Fluorobiphenyl	6.998	172	9384	0.381	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 15.24%#			
78) 2,4,6-Tribromophenol	8.392	330	904	0.347	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 6.94%#			
95) 4-Terphenyl-d14	10.639	244	10904	0.347	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 13.88%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.034	74	1904	0.382	ug/ml#	85
3) Pyridine	2.099	79	3390	0.394	ug/ml#	53
5) Aniline	4.369	93	4905	0.368	ug/ml#	54
6) 2-Chlorophenol	4.481	128	3488	0.374	ug/ml#	89
8) Phenol	4.375	94	4181	0.357	ug/ml#	51
9) Bis(2-chloroethyl)ether	4.457	93	3556	0.414	ug/ml	89
10) 1,3-Dichlorobenzene	4.634	146	4581	0.412	ug/ml	95
11) 1,4-Dichlorobenzene	4.704	146	4570	0.407	ug/ml	93
12) 1,2-Dichlorobenzene	4.851	146	4527	0.416	ug/ml	96
13) Benzyl alcohol	4.840	79	2293	0.331	ug/ml#	89
14) Bis(2-chloroisopropyl)...	4.987	45	5069	0.390	ug/ml#	62

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL2.d
Acq On : 12 Oct 2020 5:39 pm
Operator : sv124:wr
Sample : IL9,32,,ABNL0.4 #8949
Misc : wg1422524,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 15 15:42:32 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 15 15:42:23 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.969	108	2915	0.362	ug/ml	91
16) Hexachloroethane	5.181	117	1759	0.410	ug/ml#	81
17) n-Nitrosodi-n-propylamine	5.110	70	2078	0.342	ug/ml#	59
18) 3-Methylphenol/4-Methy...	5.122	108	2915	0.342	ug/ml#	87
20) Nitrobenzene	5.251	77	3380	0.363	ug/ml#	91
21) Isophorone	5.492	82	5400	0.327	ug/ml#	95
22) 2-Nitrophenol	5.563	139	1401	0.291	ug/ml#	73
23) 2,4-Dimethylphenol	5.639	107	3154	0.344	ug/ml	96
24) Bis(2-chloroethoxy)met...	5.728	93	4076	0.358	ug/ml#	87
25) 2,4-Dichlorophenol	5.798	162	2783	0.340	ug/ml	91
26) 1,2,4-Trichlorobenzene	5.881	180	3815	0.404	ug/ml	97
35) Naphthalene	5.945	128	11994	0.379	ug/ml	98
36) Benzoic Acid	0.000		0	N.D.		
37) 4-Chloroaniline	6.016	65	1084	0.301	ug/ml#	51
38) Hexachlorobutadiene	6.092	225	2251	0.385	ug/ml	95
39) p-Chloro-m-cresol	6.510	107	2402	0.290	ug/ml#	84
40) 2-Methylnaphthalene	6.622	142	7904	0.367	ug/ml	97
41) 1-Methylnaphthalene	6.716	115	2654	0.366	ug/ml	98
42) Hexachlorocyclopentadiene	6.792	237	2819	0.364	ug/ml#	93
43) 2,4,6-Trichlorophenol	6.910	196	1879	0.285	ug/ml	98
44) 2,4,5-Trichlorophenol	6.939	196	2113	0.295	ug/ml	93
46) 2-Chloronaphthalene	7.092	162	7664	0.372	ug/ml	96
47) 2-Nitroaniline	7.198	138	1695	0.289	ug/ml#	74
48) 1,4-Dinitrobenzene	7.333	168	751	0.237	ug/ml	86
49) 1,3-Dinitrobenzene	7.404	168	790	0.219	ug/ml#	1
50) Dimethyl phthalate	7.398	163	8414	0.345	ug/ml#	95
51) Acenaphthylene	7.486	152	10837	0.333	ug/ml	98
52) 2,6-Dinitrotoluene	7.445	165	1303	0.259	ug/ml	89
53) 1,2-Dinitrobenzene	7.486	168	626	0.261	ug/ml#	1
63) 3-Nitroaniline	7.598	138	1378	0.252	ug/ml#	64
64) Acenaphthene	7.657	154	7573	0.386	ug/ml	93
65) 2,4-Dinitrophenol	7.704	184	510	1.428	ug/ml#	25
66) Dibenzofuran	7.828	168	11617	0.386	ug/ml	99
67) 2,4-Dinitrotoluene	7.833	165	1646	0.246	ug/ml#	86
68) 4-Nitrophenol	7.781	65	903	0.216	ug/ml#	78
69) 2,3,5,6-Tetrachlorophenol	7.916	232	1594	0.263	ug/ml	98
70) 2,3,4,6-Tetrachlorophenol	7.957	232	1635	0.281	ug/ml	97
71) Diethyl phthalate	8.086	149	8417	0.348	ug/ml	98
72) Fluorene	8.157	166	8475	0.370	ug/ml	94
73) 4-Chlorophenyl phenyl ...	8.175	204	4267	0.377	ug/ml	94

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL2.d
Acq On : 12 Oct 2020 5:39 pm
Operator : sv124:wr
Sample : IL9,32,,ABNL0.4 #8949
Misc : wg1422524,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 15 15:42:32 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 15 15:42:23 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	8.186	138	1305	0.241	ug/ml	85
75)	4,6-Dinitro-o-cresol	8.222	198	711	0.752	ug/ml#	1
76)	NDPA/DPA	8.292	169	6661	0.347	ug/ml	95
77)	Azobenzene	8.328	77	6976	0.310	ug/ml	96
79)	4-Bromophenyl phenyl e...	8.645	248	2551	0.379	ug/ml#	88
80)	Hexachlorobenzene	8.698	284	3186	0.407	ug/ml#	88
81)	Pentachlorophenol	8.886	266	1145	0.243	ug/ml	96
88)	Phenanthrene	9.080	178	14089	0.375	ug/ml	98
89)	Anthracene	9.133	178	12663	0.350	ug/ml	98
90)	Carbazole	9.298	167	10456	0.320	ug/ml	96
91)	Di-n-butylphthalate	9.686	149	10768	0.261	ug/ml	100
92)	Fluoranthene	10.233	202	13312	0.341	ug/ml#	92
93)	Benzidine	10.386	184	6306	0.228	ug/ml#	86
94)	Pyrene	10.451	202	13406	0.326	ug/ml	97
96)	Butyl benzyl phthalate	11.163	149	3976	0.736	ug/ml	86
104)	Benzo(a)anthracene	11.686	228	12413	0.346	ug/ml	98
105)	3,3'-Dichlorobenzidine	11.686	252	3904	0.288	ug/ml	100
106)	Chrysene	11.721	228	14990	0.408	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	11.804	149	5473	0.506	ug/ml#	88
108)	Di-n-octylphthalate	12.480	149	8569	0.664	ug/ml#	69
109)	Benzo(b)fluoranthene	12.792	252	13109	0.350	ug/ml#	93
110)	Benzo(k)fluoranthene	12.815	252	11312	0.344	ug/ml#	92
111)	Benzo(a)pyrene	13.104	252	9397	0.314	ug/ml#	95
113)	Indeno(1,2,3-cd)pyrene	14.115	276	10496M6	0.327	ug/mL	
114)	Dibenzo(a,h)anthracene	14.139	278	11322	0.337	ug/ml#	91
115)	Benzo(ghi)perylene	14.333	276	11859	0.357	ug/ml#	87

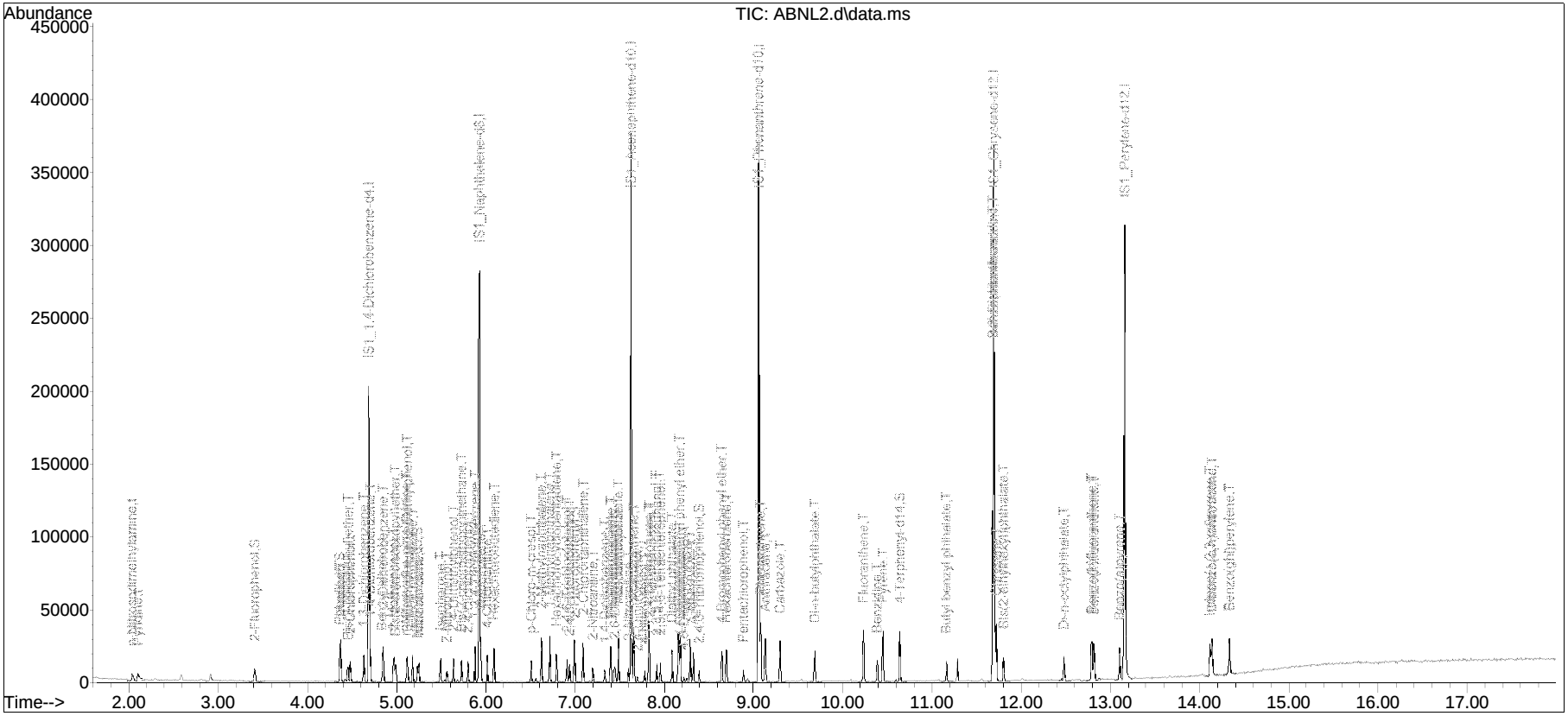
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL2.d
Acq On : 12 Oct 2020 5:39 pm
Operator : sv124:wr
Sample : IL9,32,,ABNL0.4 #8949
Misc : wg1422524,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 15 15:42:32 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 15 15:42:23 2020
Response via : Initial Calibration

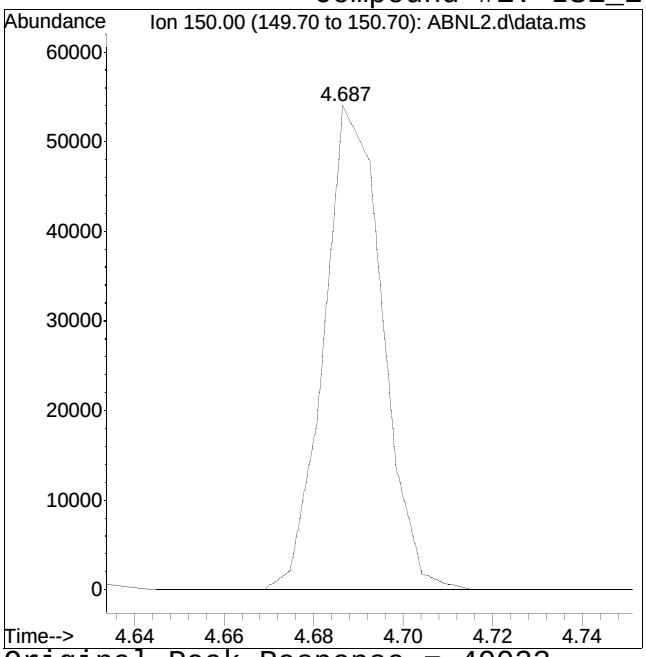
Sub List : ABNical - ABN ical sublistal\ABNL7.d•



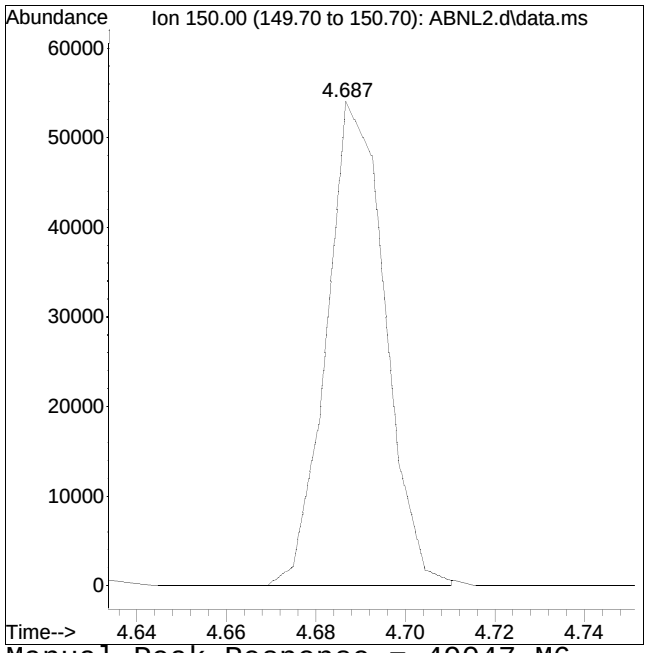
Manual Integration/Negative Proof Report

Data Path : I:\8270\SV124\201012ical\ QMethod : FS201012SV124.m
Data File : ABNL2.d Operator : sv124:wr
Date Inj'd : 10/12/2020 5:39 pm Instrument : SV 124
Sample : IL9,32,,ABNL0.4 #8949 Quant Date : 10/15/2020 3:42 pm

Compound #1: IS1_1,4-Dichlorobenzene-d4



Original Peak Response = 49033



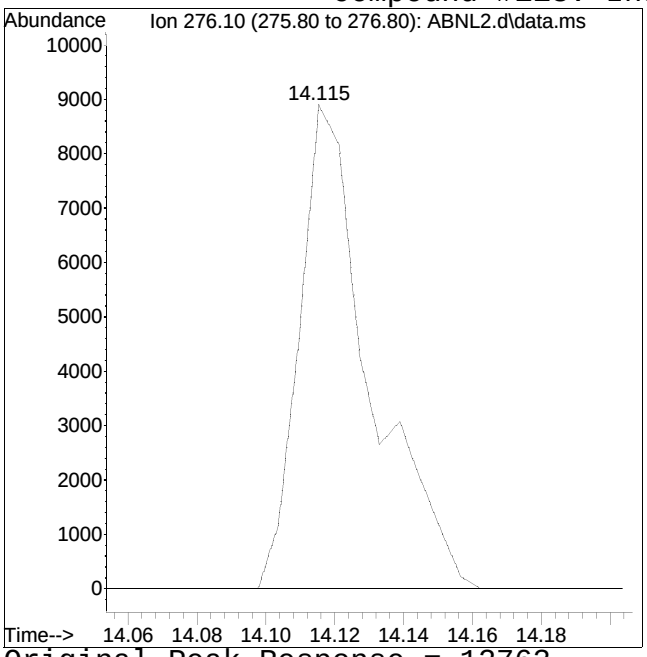
Manual Peak Response = 49047 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

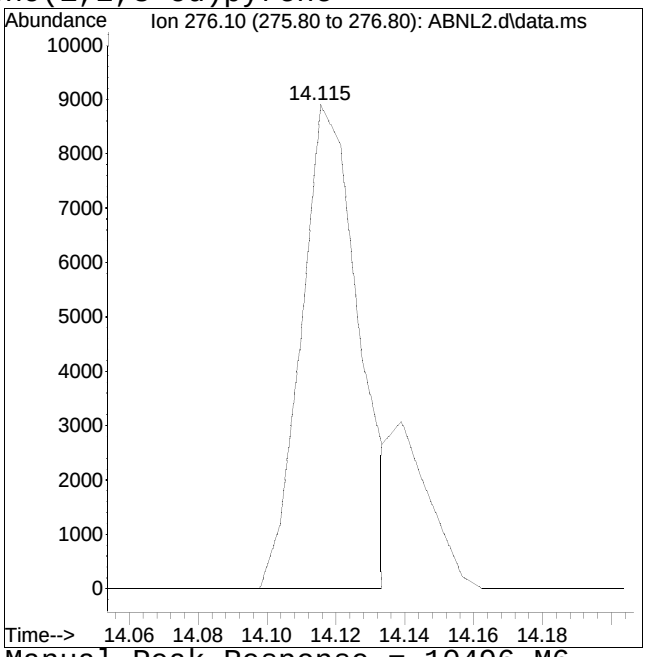
Manual Integration/Negative Proof Report

Data Path : I:\8270\SV124\201012ical\ QMethod : FS201012SV124.m
Data File : ABNL2.d Operator : sv124:wr
Date Inj'd : 10/12/2020 5:39 pm Instrument : SV 124
Sample : IL9,32,,ABNL0.4 #8949 Quant Date : 10/15/2020 3:42 pm

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 12763



Manual Peak Response = 10496 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL1.d
Acq On : 12 Oct 2020 6:02 pm
Operator : sv124:wr
Sample : IL10,32,,ABNL0.2 #8948
Misc : wg1422524,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 13 12:23:48 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 12:22:26 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.687	150	47283M6	4.000	ug/ml	0.00
Standard Area 1 = 50323			Recovery = 93.96%			
34) IS1_Naphthalene-d8	5.928	136	118594	4.000	ug/ml	0.00
Standard Area 1 = 127278			Recovery = 93.18%			
62) IS1_Acenaphthene-d10	7.628	164	63451	4.000	ug/ml	0.00
Standard Area 1 = 71862			Recovery = 88.30%			
87) IS1_Phenanthrene-d10	9.057	188	125382	4.000	ug/ml	0.00
Standard Area 1 = 138593			Recovery = 90.47%			
103) IS1_Chrysene-d12	11.692	240	114723	4.000	ug/ml	0.00
Standard Area 1 = 144009			Recovery = 79.66%			
112) IS1_Perylene-d12	13.162	264	109653	4.000	ug/ml	0.00
Standard Area 1 = 139085			Recovery = 78.84%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.410	112	1468	0.192	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 3.84%#			
7) Phenol-d6	4.363	99	1670	0.180	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 3.60%#			
19) Nitrobenzene-d5	5.234	82	1663	0.185	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 7.40%#			
45) 2-Fluorobiphenyl	6.992	172	4676	0.196	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 7.84%#			
78) 2,4,6-Tribromophenol	8.392	330	407M2	0.217	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 4.34%#			
95) 4-Terphenyl-d14	10.639	244	5303	0.179	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 7.16%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.040	74	890	0.185	ug/ml#	84
3) Pyridine	2.110	79	1662	0.200	ug/ml#	49
5) Aniline	4.369	93	2344	0.183	ug/ml#	46
6) 2-Chlorophenol	4.481	128	1611	0.179	ug/ml#	64
8) Phenol	4.375	94	2109	0.187	ug/ml#	48
9) Bis(2-chloroethyl)ether	4.457	93	1713	0.207	ug/ml	87
10) 1,3-Dichlorobenzene	4.634	146	2383	0.222	ug/ml	98
11) 1,4-Dichlorobenzene	4.704	146	2590	0.239	ug/ml	89
12) 1,2-Dichlorobenzene	4.851	146	2309	0.220	ug/ml	95
13) Benzyl alcohol	4.839	79	1265	0.190	ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL1.d
Acq On : 12 Oct 2020 6:02 pm
Operator : sv124:wr
Sample : IL10,32,,ABNL0.2 #8948
Misc : wg1422524,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 13 12:23:48 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 12:22:26 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
14) Bis(2-chloroisopropyl)...	4.987	45	2461	0.197	ug/ml#	45
15) 2-Methylphenol	4.969	108	1465	0.189	ug/ml#	89
16) Hexachloroethane	5.181	117	813	0.197	ug/ml#	55
17) n-Nitrosodi-n-propylamine	5.110	70	1033	0.176	ug/ml#	59
18) 3-Methylphenol/4-Methy...	5.122	108	1605	0.195	ug/ml#	97
20) Nitrobenzene	5.251	77	1604	0.179	ug/ml#	85
21) Isophorone	5.492	82	2681	0.168	ug/ml#	65
22) 2-Nitrophenol	5.563	139	682	0.147	ug/ml#	31
23) 2,4-Dimethylphenol	5.639	107	1592	0.180	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.728	93	2427	0.221	ug/ml#	87
25) 2,4-Dichlorophenol	5.798	162	1329	0.168	ug/ml#	73
26) 1,2,4-Trichlorobenzene	5.881	180	1829	0.201	ug/ml	94
35) Naphthalene	5.945	128	6248	0.204	ug/ml	98
36) Benzoic Acid	0.000		0	N.D.		
37) 4-Chloroaniline	6.016	65	486M2	0.139	ug/ml	
38) Hexachlorobutadiene	6.092	225	1115	0.197	ug/ml	92
39) p-Chloro-m-cresol	6.510	107	1313	0.164	ug/ml#	87
40) 2-Methylnaphthalene	6.622	142	3792	0.181	ug/ml	92
41) 1-Methylnaphthalene	6.716	115	1394	0.198	ug/ml	94
42) Hexachlorocyclopentadiene	6.792	237	1337	0.178	ug/ml#	86
43) 2,4,6-Trichlorophenol	6.910	196	957	0.150	ug/ml#	85
44) 2,4,5-Trichlorophenol	6.939	196	1016	0.146	ug/ml#	86
46) 2-Chloronaphthalene	7.092	162	3597	0.180	ug/ml	97
47) 2-Nitroaniline	7.198	138	755	0.133	ug/ml#	49
48) 1,4-Dinitrobenzene	0.000		0	N.D.		
49) 1,3-Dinitrobenzene	0.000		0	N.D.		
50) Dimethyl phthalate	7.398	163	4153	0.176	ug/ml#	77
51) Acenaphthylene	7.486	152	5100	0.161	ug/ml	99
52) 2,6-Dinitrotoluene	7.445	165	574	0.118	ug/ml#	37
53) 1,2-Dinitrobenzene	0.000		0	N.D.		
63) 3-Nitroaniline	7.598	138	711	0.136	ug/ml#	48
64) Acenaphthene	7.657	154	3861	0.205	ug/ml	94
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	7.828	168	5683	0.197	ug/ml	99
67) 2,4-Dinitrotoluene	7.828	165	717	0.112	ug/ml#	72
68) 4-Nitrophenol	7.780	65	369M2	0.092	ug/ml	
69) 2,3,5,6-Tetrachlorophenol	7.916	232	758	0.131	ug/ml#	17
70) 2,3,4,6-Tetrachlorophenol	7.957	232	702	0.126	ug/ml#	18
71) Diethyl phthalate	8.086	149	3792	0.164	ug/ml#	87
72) Fluorene	8.157	166	4083	0.186	ug/ml	90

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL1.d
Acq On : 12 Oct 2020 6:02 pm
Operator : sv124:wr
Sample : IL10,32,,ABNL0.2 #8948
Misc : wg1422524,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 13 12:23:48 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 12:22:26 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73)	4-Chlorophenyl phenyl ...	8.175	204	2213	0.204	ug/ml	94
74)	4-Nitroaniline	8.186	138	550	0.106	ug/ml#	79
75)	4,6-Dinitro-o-cresol	8.222	198	272M2	0.077	ug/ml	
76)	NDPA/DPA	8.292	169	3204	0.174	ug/ml	96
77)	Azobenzene	8.327	77	3338	0.155	ug/ml	96
79)	4-Bromophenyl phenyl e...	8.645	248	1284	0.199	ug/ml#	85
80)	Hexachlorobenzene	8.698	284	1520	0.202	ug/ml#	71
81)	Pentachlorophenol	8.886	266	427M2	0.095	ug/ml	
88)	Phenanthrene	9.080	178	7070	0.200	ug/ml	98
89)	Anthracene	9.127	178	5928	0.174	ug/ml	99
90)	Carbazole	9.298	167	4828	0.157	ug/ml	98
91)	Di-n-butylphthalate	9.686	149	5089	0.131	ug/ml#	79
92)	Fluoranthene	10.233	202	6501	0.177	ug/ml#	92
93)	Benzidine	10.386	184	3006	0.115	ug/ml#	68
94)	Pyrene	10.451	202	6815	0.176	ug/ml	98
96)	Butyl benzyl phthalate	11.168	149	1777	0.902	ug/ml#	85
104)	Benzo(a)anthracene	11.686	228	6131	0.182	ug/ml	98
105)	3,3'-Dichlorobenzidine	11.686	252	1703	0.133	ug/ml#	83
106)	Chrysene	11.721	228	7212	0.209	ug/ml	99
107)	Bis(2-ethylhexyl)phtha...	11.804	149	2452	0.111	ug/ml#	87
108)	Di-n-octylphthalate	12.480	149	4189	0.553	ug/ml#	55
109)	Benzo(b)fluoranthene	12.786	252	6111	0.174	ug/ml#	89
110)	Benzo(k)fluoranthene	12.815	252	5218	0.169	ug/ml#	96
111)	Benzo(a)pyrene	13.104	252	4271	0.152	ug/ml	95
113)	Indeno(1,2,3-cd)pyrene	14.115	276	5086M6	0.169	ug/mL	
114)	Dibenzo(a,h)anthracene	14.139	278	5158	0.164	ug/ml#	86
115)	Benzo(ghi)perylene	14.333	276	5824	0.187	ug/ml#	86

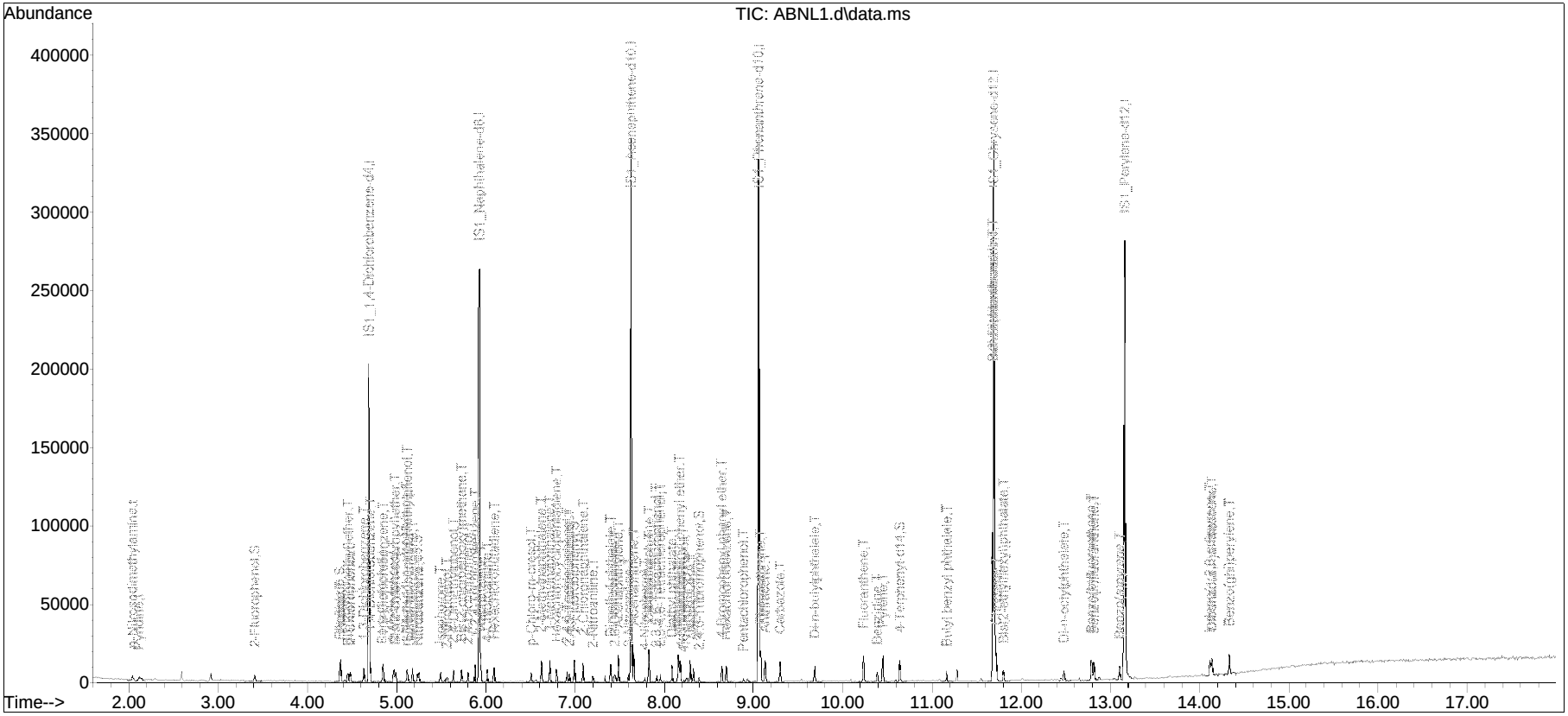
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ABNL1.d
Acq On : 12 Oct 2020 6:02 pm
Operator : sv124:wr
Sample : IL10,32,,ABNL0.2 #8948
Misc : wg1422524,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 13 12:23:48 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 12:22:26 2020
Response via : Initial Calibration

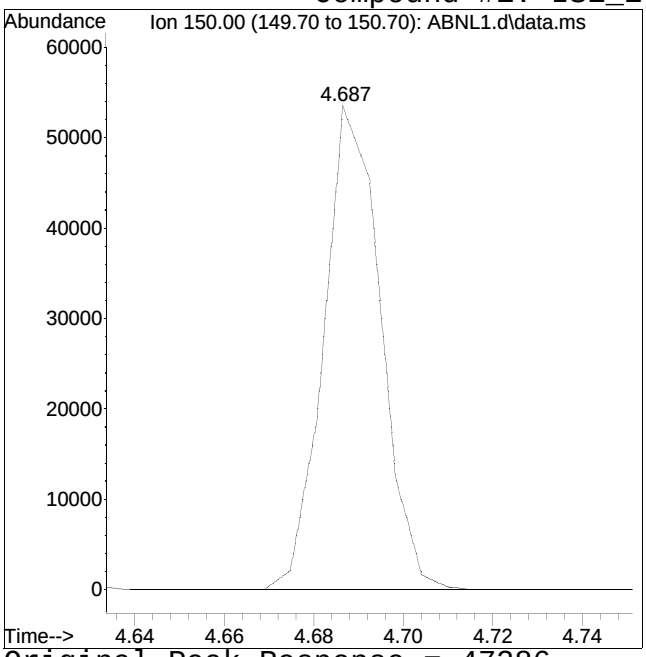
Sub List : ABNical - ABN ical sublistal\ABNL7.d•



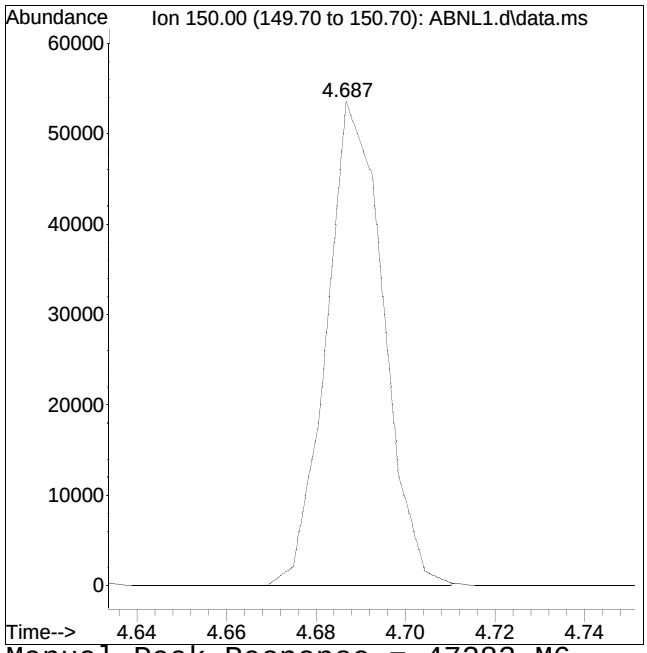
Manual Integration/Negative Proof Report

Data Path : I:\8270\SV124\201012ical\ QMethod : FS201012SV124.m
Data File : ABNL1.d Operator : sv124:wr
Date Inj'd : 10/12/2020 6:02 pm Instrument : SV 124
Sample : IL10,32,,ABNL0.2 #8948 Quant Date : 10/13/2020 12:23 pm

Compound #1: IS1_1,4-Dichlorobenzene-d4



Original Peak Response = 47286



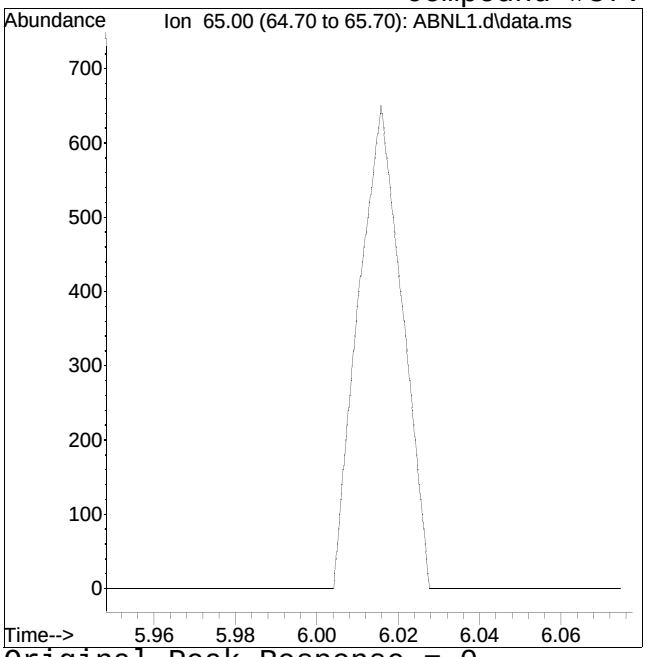
Manual Peak Response = 47283 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

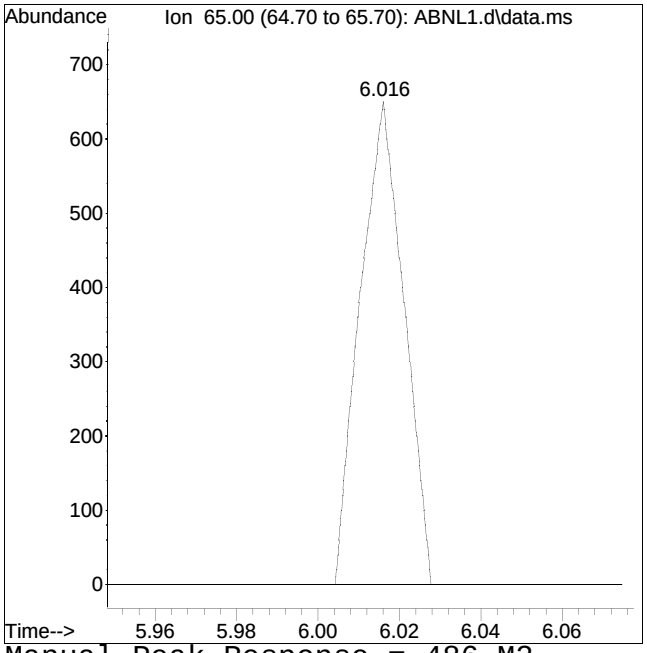
Manual Integration/Negative Proof Report

Data Path : I:\8270\SV124\201012ical\ QMethod : FS201012SV124.m
Data File : ABNL1.d Operator : sv124:wr
Date Inj'd : 10/12/2020 6:02 pm Instrument : SV 124
Sample : IL10,32,,ABNL0.2 #8948 Quant Date : 10/13/2020 12:23 pm

Compound #37: 4-Chloroaniline



Original Peak Response = 0



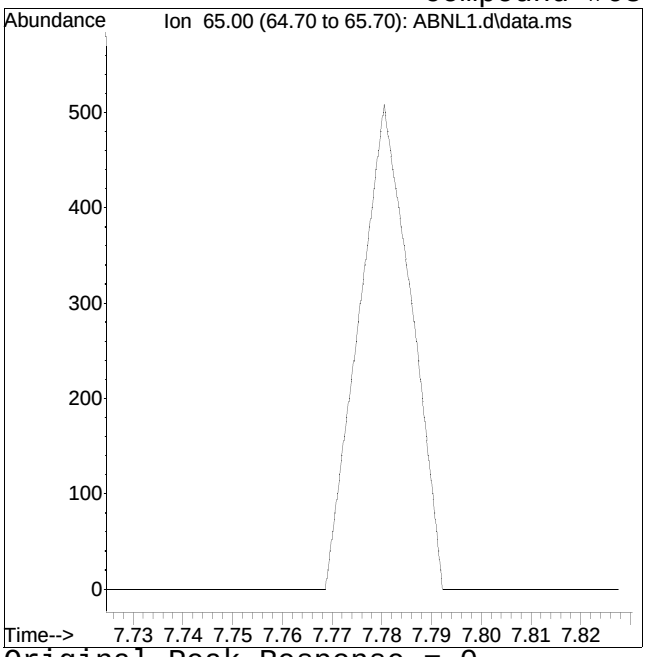
Manual Peak Response = 486 M2

M2 = Peak not found by automatic integration algorithm.

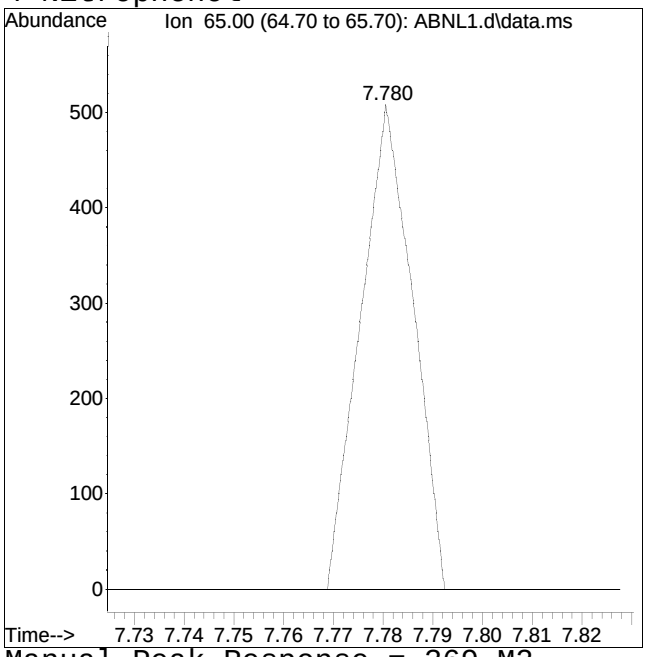
Manual Integration/Negative Proof Report

Data Path : I:\8270\SV124\201012ical\ QMethod : FS201012SV124.m
Data File : ABNL1.d Operator : sv124:wr
Date Inj'd : 10/12/2020 6:02 pm Instrument : SV 124
Sample : IL10,32,,ABNL0.2 #8948 Quant Date : 10/13/2020 12:23 pm

Compound #68: 4-Nitrophenol



Original Peak Response = 0



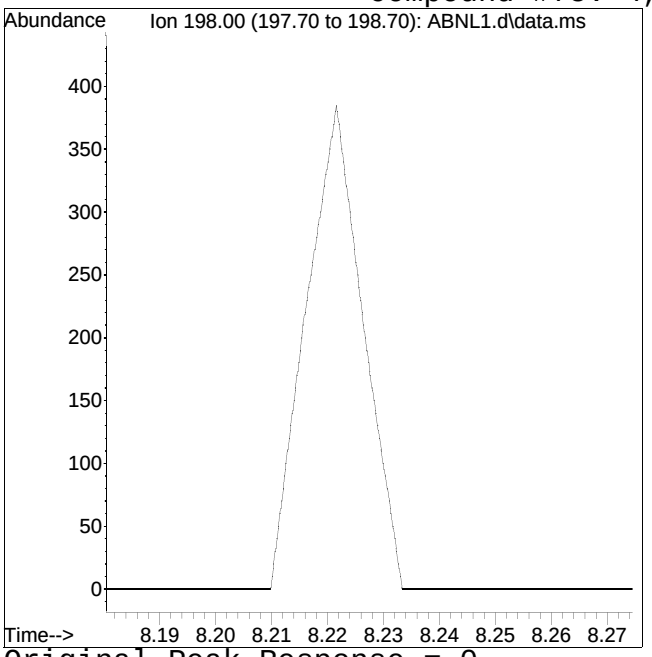
Manual Peak Response = 369 M2

M2 = Peak not found by automatic integration algorithm.

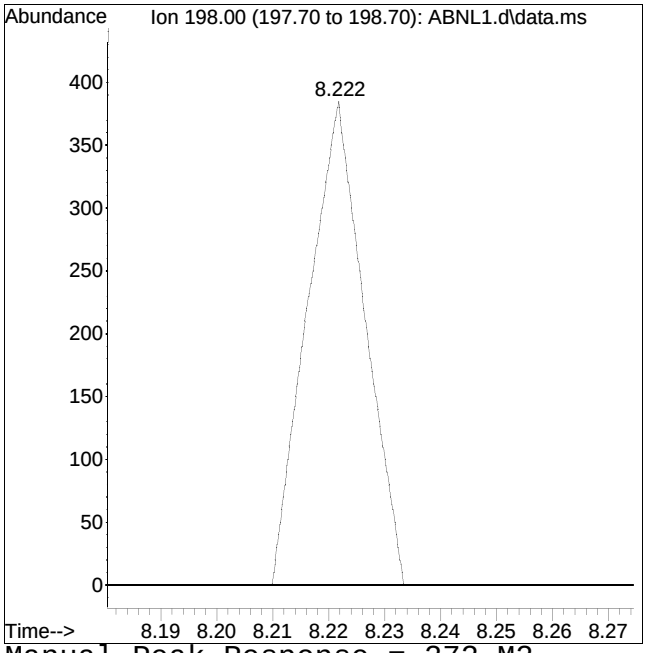
Manual Integration/Negative Proof Report

Data Path	: I:\8270\SV124\201012ical\	QMethod	: FS201012SV124.m
Data File	: ABNL1.d	Operator	: sv124:wr
Date Inj'd	: 10/12/2020 6:02 pm	Instrument	: SV 124
Sample	: IL10,32,,ABNL0.2 #8948	Quant Date	: 10/13/2020 12:23 pm

Compound #75: 4,6-Dinitro-o-cresol



Original Peak Response = 0



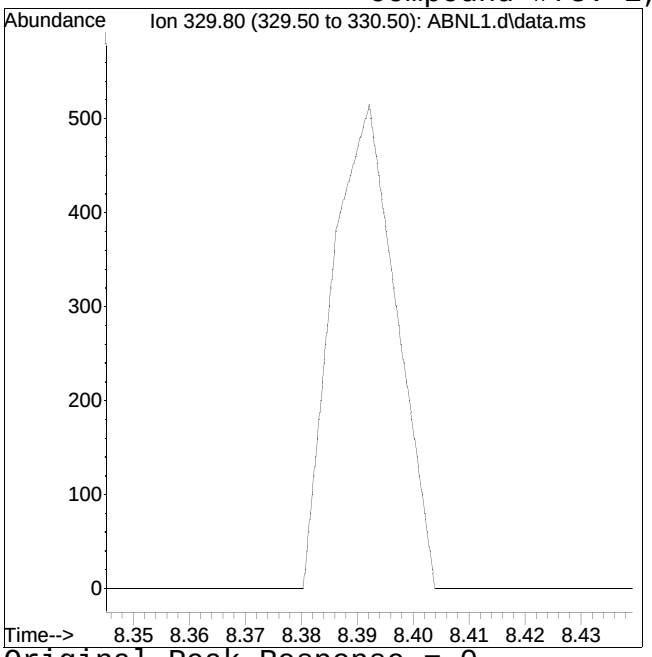
Manual Peak Response = 272 M2

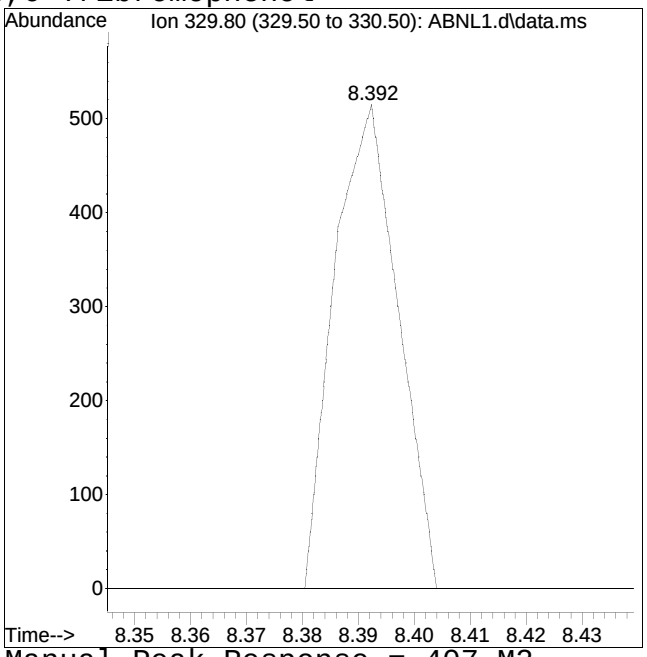
M2 = Peak not found by automatic integration algorithm.

Manual Integration/Negative Proof Report

Data Path	: I:\8270\SV124\201012ical\	QMethod	: FS201012SV124.m
Data File	: ABNL1.d	Operator	: sv124:wr
Date Inj'd	: 10/12/2020 6:02 pm	Instrument	: SV 124
Sample	: IL10,32,,ABNL0.2 #8948	Quant Date	: 10/13/2020 12:23 pm

Compound #78: 2,4,6-Tribromophenol





Original Peak Response = 0 Manual Peak Response = 407 M2

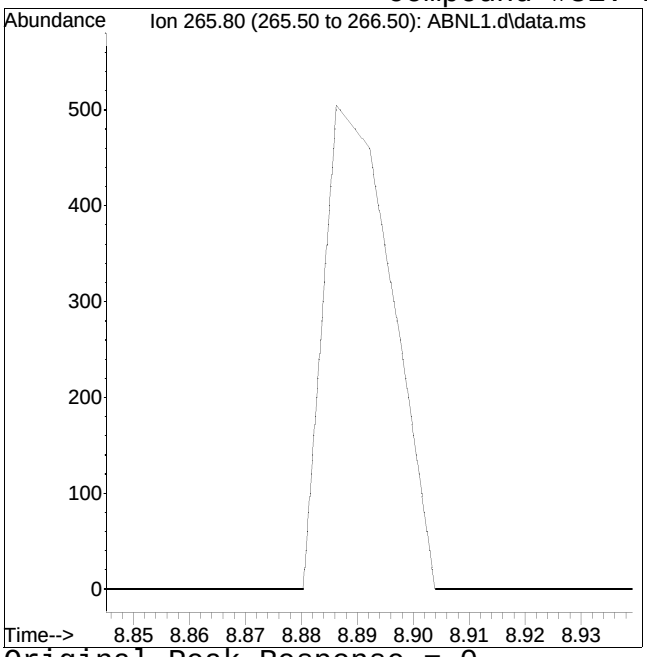
M2 = Peak not found by automatic integration algorithm.

Manual Integration/Negative Proof Report

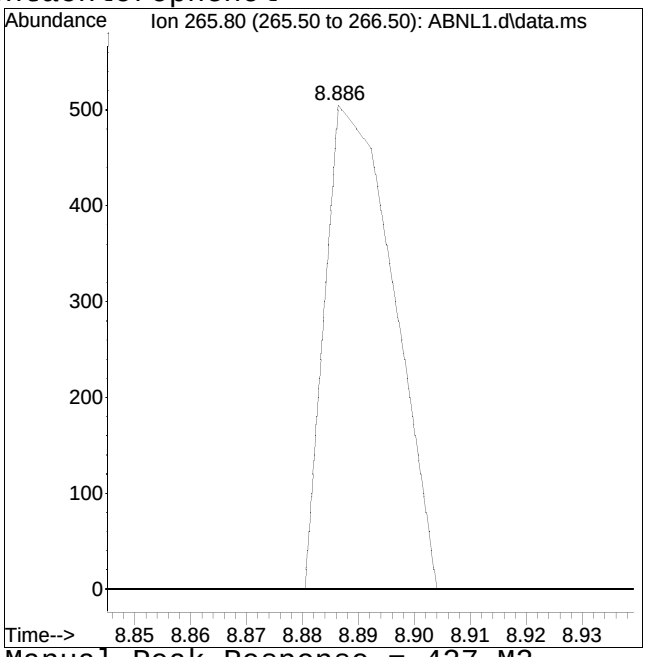
Data Path : I:\8270\SV124\201012ical\
Data File : ABNL1.d
Date Inj'd : 10/12/2020 6:02 pm
Sample : IL10,32,,ABNL0.2 #8948

QMethod : FS201012SV124.m
Operator : sv124:wr
Instrument : SV 124
Quant Date : 10/13/2020 12:23 pm

Compound #81: Pentachlorophenol



Original Peak Response = 0



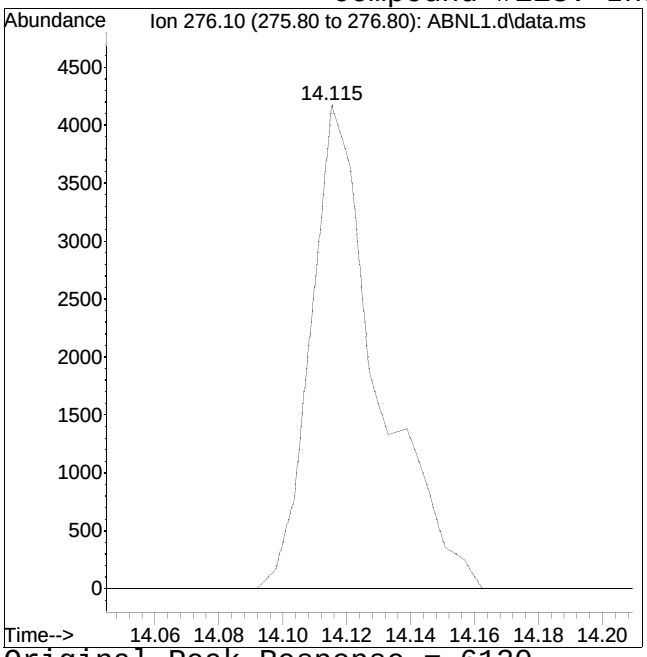
Manual Peak Response = 427 M2

M2 = Peak not found by automatic integration algorithm.

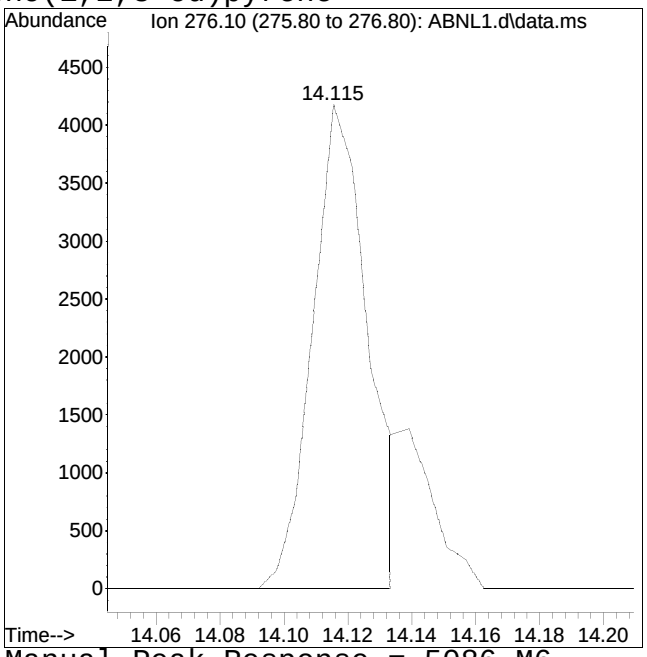
Manual Integration/Negative Proof Report

Data Path	: I:\8270\SV124\201012ical\	QMethod	: FS201012SV124.m
Data File	: ABNL1.d	Operator	: sv124:wr
Date Inj'd	: 10/12/2020 6:02 pm	Instrument	: SV 124
Sample	: IL10,32,,ABNL0.2 #8948	Quant Date	: 10/13/2020 12:23 pm

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 6120



Manual Peak Response = 5086 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : AP9L10.d
Acq On : 12 Oct 2020 6:25 pm
Operator : sv124:wr
Sample : IL1,32,,AP9L50 #8958
Misc : wg1422524,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 13 13:17:26 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\AP9L7.d
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.687	150	48183	4.000	ug/ml	0.00
Standard Area 1 = 48911			Recovery =	98.51%		
54) IS2_Naphthalene-d8	5.928	136	124923	4.000	ug/ml	0.00
Standard Area 1 = 126346			Recovery =	98.87%		
82) IS2_Acenaphthene-d10	7.628	164	68677	4.000	ug/ml	0.00
Standard Area 1 = 68596			Recovery =	100.12%		
97) IS2_Phenanthrene-d10	9.057	188	138397	4.000	ug/ml	0.00
Standard Area 1 = 139704			Recovery =	99.06%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.257	105	407603	49.144	ug/ml	96
29) Acetophenone	5.093	105	714387	50.037	ug/ml#	82
30) m-Toluidine	5.175	106	765960	52.925	ug/ml	94
31) 2-Chloroaniline	5.534	127	682103	51.314	ug/ml#	92
55) a-Terpineol	5.987	59	447087	57.108	ug/ml#	79
56) 3-Chloroaniline	5.998	65	229071	54.632	ug/ml	98
57) 2,6-Dichlorophenol	6.028	162	468519	50.488	ug/ml#	87
58) 1-chloro-2-nitrobenzene	6.281	111	226727	50.733	ug/ml#	1
59) Caprolactam	6.334	55	218749	58.925	ug/ml#	62
60) 1,2,4,5-Tetrachloroben...	6.792	216	533301	48.686	ug/ml	99
61) Biphenyl	7.087	154	1390967	50.043	ug/ml	99
83) Dichloran	8.763	206	165747	51.181	ug/ml#	78
84) Pentachloronitrobenzene	8.910	237	176748	54.293	ug/ml#	87
98) Diphenamid	9.969	167	945590	55.096	ug/ml	86

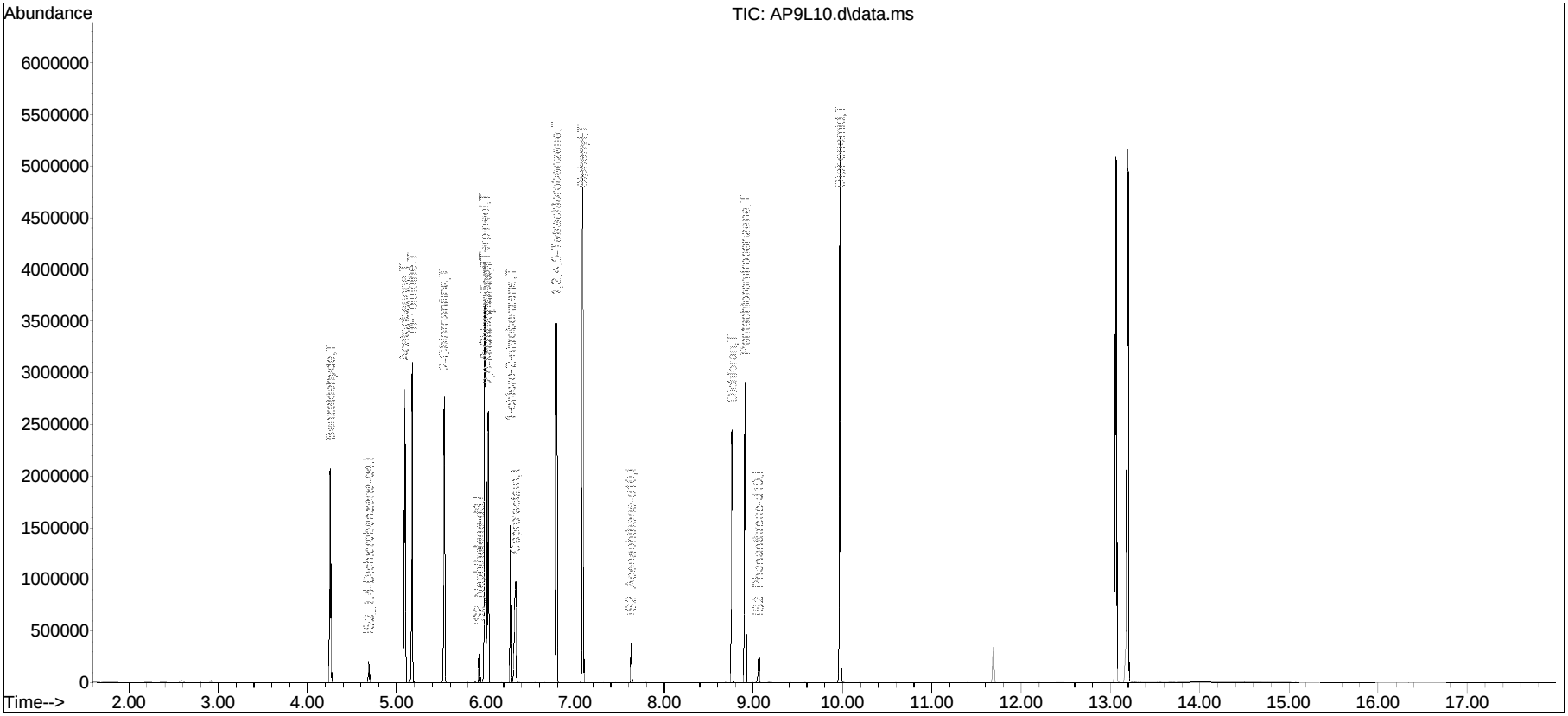
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : AP9L10.d
Acq On : 12 Oct 2020 6:25 pm
Operator : sv124:wr
Sample : IL1,32,,AP9L50 #8958
Misc : wg1422524,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 13 13:17:26 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•



Manual Integration/Negative Proof Report

Data Path	: I:\8270\SV124\201012ical\	QMethod	: FS201012SV124.m
Data File	: AP9L10.d	Operator	: sv124:wr
Date Inj'd	: 10/12/2020 6:25 pm	Instrument	: SV 124
Sample	: IL1,32,,AP9L50 #8958	Quant Date	: 10/13/2020 11:14 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : AP9L9.d
Acq On : 12 Oct 2020 6:48 pm
Operator : sv124:wr
Sample : IL2,32,,AP9L35 #8967
Misc : wg1422524,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 13 13:18:03 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\AP9L7.d
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
27) IS2_1,4-Dichlorobenzen...	4.687	150	48420	4.000 ug/ml	# 0.00
Standard Area 1 = 48911			Recovery =	99.00%	
54) IS2_Naphthalene-d8	5.928	136	125613	4.000 ug/ml	0.00
Standard Area 1 = 126346			Recovery =	99.42%	
82) IS2_Acenaphthene-d10	7.628	164	67809	4.000 ug/ml	0.00
Standard Area 1 = 68596			Recovery =	98.85%	
97) IS2_Phenanthrene-d10	9.057	188	142857	4.000 ug/ml	0.00
Standard Area 1 = 139704			Recovery =	102.26%	
System Monitoring Compounds					
Target Compounds					Qvalue
28) Benzaldehyde	4.257	105	274472	32.931 ug/ml	96
29) Acetophenone	5.092	105	484387	33.761 ug/ml#	81
30) m-Toluidine	5.175	106	520694	35.802 ug/ml	93
31) 2-Chloroaniline	5.534	127	459242	34.379 ug/ml#	92
55) a-Terpineol	5.987	59	299706	38.072 ug/ml#	80
56) 3-Chloroaniline	5.998	65	152271	36.116 ug/ml	96
57) 2,6-Dichlorophenol	6.028	162	314734	33.730 ug/ml#	87
58) 1-chloro-2-nitrobenzene	6.281	111	154203	34.315 ug/ml#	1
59) Caprolactam	6.328	55	146174	39.159 ug/ml#	61
60) 1,2,4,5-Tetrachloroben...	6.792	216	364708	33.112 ug/ml	98
61) Biphenyl	7.086	154	953261	34.107 ug/ml	99
83) Dichloran	8.757	206	108221	33.846 ug/ml#	75
84) Pentachloronitrobenzene	8.910	237	115280	35.865 ug/ml#	87
98) Diphenamid	9.969	167	625970	35.334 ug/ml	83

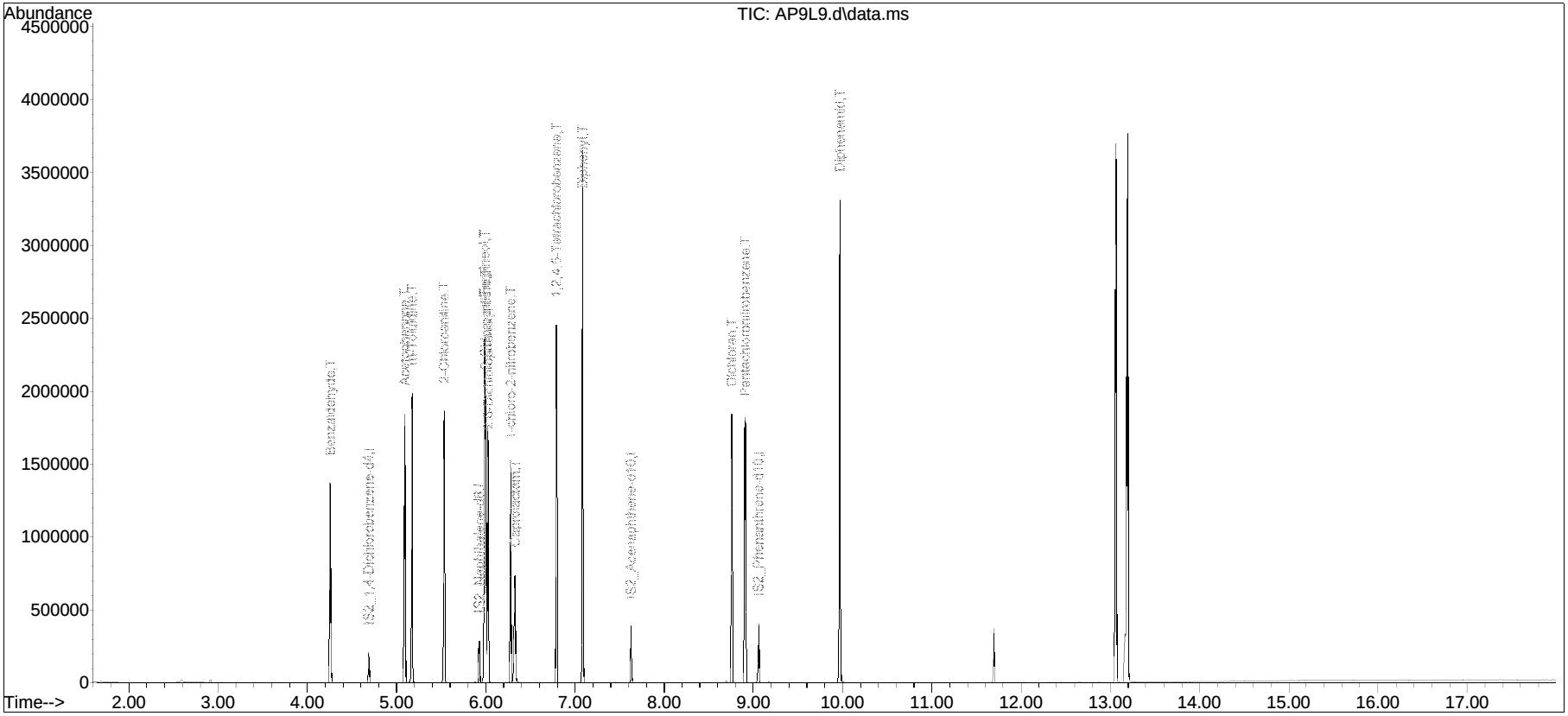
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : AP9L9.d
Acq On : 12 Oct 2020 6:48 pm
Operator : sv124:wr
Sample : IL2,32,,AP9L35 #8967
Misc : wg1422524,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 13 13:18:03 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•



Manual Integration/Negative Proof Report

Data Path	: I:\8270\SV124\201012ical\	QMethod	: FS201012SV124.m
Data File	: AP9L9.d	Operator	: sv124:wr
Date Inj'd	: 10/12/2020 6:48 pm	Instrument	: SV 124
Sample	: IL2,32,,AP9L35 #8967	Quant Date	: 10/13/2020 11:15 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : AP9L8.d
Acq On : 12 Oct 2020 7:12 pm
Operator : sv124:wr
Sample : IL3,32,,AP9L15 #8966
Misc : wg1422524,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 13 13:18:37 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\AP9L7.d
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.687	150	48824	4.000	ug/ml	0.00
Standard Area 1 = 48911			Recovery = 99.82%			
54) IS2_Naphthalene-d8	5.928	136	123513	4.000	ug/ml	0.00
Standard Area 1 = 126346			Recovery = 97.76%			
82) IS2_Acenaphthene-d10	7.628	164	70641	4.000	ug/ml	0.00
Standard Area 1 = 68596			Recovery = 102.98%			
97) IS2_Phenanthrene-d10	9.057	188	143888	4.000	ug/ml	0.00
Standard Area 1 = 139704			Recovery = 102.99%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.257	105	115430	13.735	ug/ml	97
29) Acetophenone	5.093	105	203196	14.045	ug/ml#	81
30) m-Toluidine	5.169	106	216509	14.764	ug/ml	94
31) 2-Chloroaniline	5.534	127	197529	14.665	ug/ml#	90
55) a-Terpineol	5.981	59	119136	15.391	ug/ml#	77
56) 3-Chloroaniline	5.998	65	63828	15.396	ug/ml	93
57) 2,6-Dichlorophenol	6.022	162	133359	14.535	ug/ml#	85
58) 1-chloro-2-nitrobenzene	6.281	111	63027	14.264	ug/ml#	1
59) Caprolactam	6.316	55	57692	15.718	ug/ml#	60
60) 1,2,4,5-Tetrachloroben...	6.793	216	158533	14.638	ug/ml	98
61) Biphenyl	7.087	154	412906	15.025	ug/ml	99
83) Dichloran	8.757	206	41045	12.322	ug/ml#	74
84) Pentachloronitrobenzene	8.904	237	47483	14.180	ug/ml	88
98) Diphenamid	9.969	167	253977	14.234	ug/ml	82

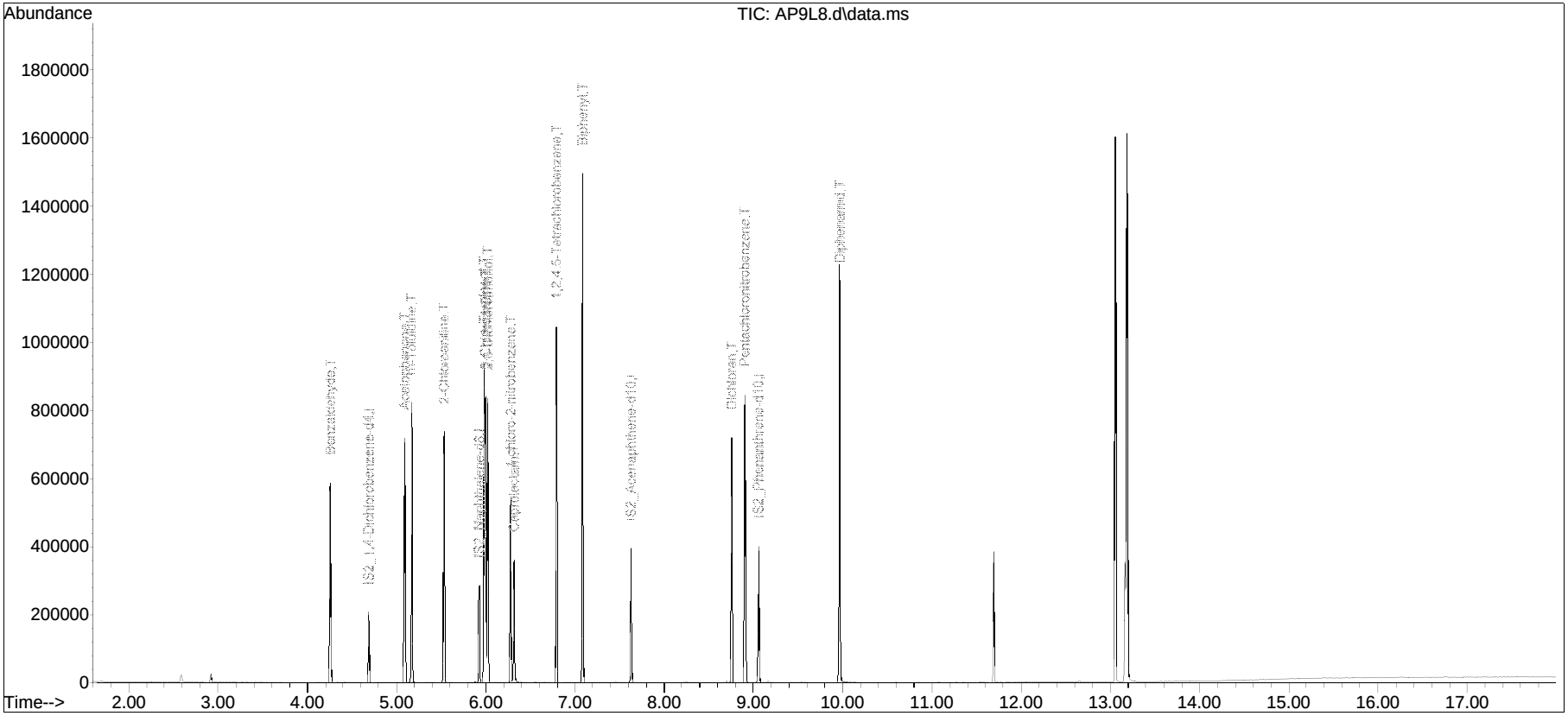
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : AP9L8.d
Acq On : 12 Oct 2020 7:12 pm
Operator : sv124:wr
Sample : IL3,32,,AP9L15 #8966
Misc : wg1422524,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 13 13:18:37 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•



Manual Integration/Negative Proof Report

Data Path	: I:\8270\SV124\201012ical\	QMethod	: FS201012SV124.m
Data File	: AP9L8.d	Operator	: sv124:wr
Date Inj'd	: 10/12/2020 7:12 pm	Instrument	: SV 124
Sample	: IL3,32,,AP9L15 #8966	Quant Date	: 10/13/2020 11:15 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : AP9L7.d
Acq On : 12 Oct 2020 7:35 pm
Operator : sv124:wr
Sample : IL4,32,,AP9L10 #8965
Misc : wg1422524,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 13 13:19:16 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\AP9L7.d
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.687	150	48911	4.000	ug/ml	0.00
Standard Area 1 = 48911			Recovery =	100.00%		
54) IS2_Naphthalene-d8	5.928	136	126346	4.000	ug/ml	0.00
Standard Area 1 = 126346			Recovery =	100.00%		
82) IS2_Acenaphthene-d10	7.628	164	68596	4.000	ug/ml	0.00
Standard Area 1 = 68596			Recovery =	100.00%		
97) IS2_Phenanthrene-d10	9.057	188	139704	4.000	ug/ml	0.00
Standard Area 1 = 139704			Recovery =	100.00%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.257	105	77804	9.241	ug/ml	95
29) Acetophenone	5.092	105	134477	9.279	ug/ml#	82
30) m-Toluidine	5.169	106	144270	9.820	ug/ml	94
31) 2-Chloroaniline	5.534	127	132190	9.797	ug/ml#	92
55) a-Terpineol	5.981	59	77493	9.787	ug/ml#	74
56) 3-Chloroaniline	5.998	65	43138	10.172	ug/ml	94
57) 2,6-Dichlorophenol	6.022	162	89024	9.485	ug/ml#	84
58) 1-chloro-2-nitrobenzene	6.281	111	42702	9.447	ug/ml#	1
59) Caprolactam	6.316	55	36344	9.680	ug/ml#	59
60) 1,2,4,5-Tetrachloroben...	6.792	216	108257	9.772	ug/ml	97
61) Biphenyl	7.086	154	279796	9.953	ug/ml	99
83) Dichloran	8.757	206	25132	7.770	ug/ml#	75
84) Pentachloronitrobenzene	8.904	237	31005	9.535	ug/ml#	87
98) Diphenamid	9.969	167	159689	9.217	ug/ml	82

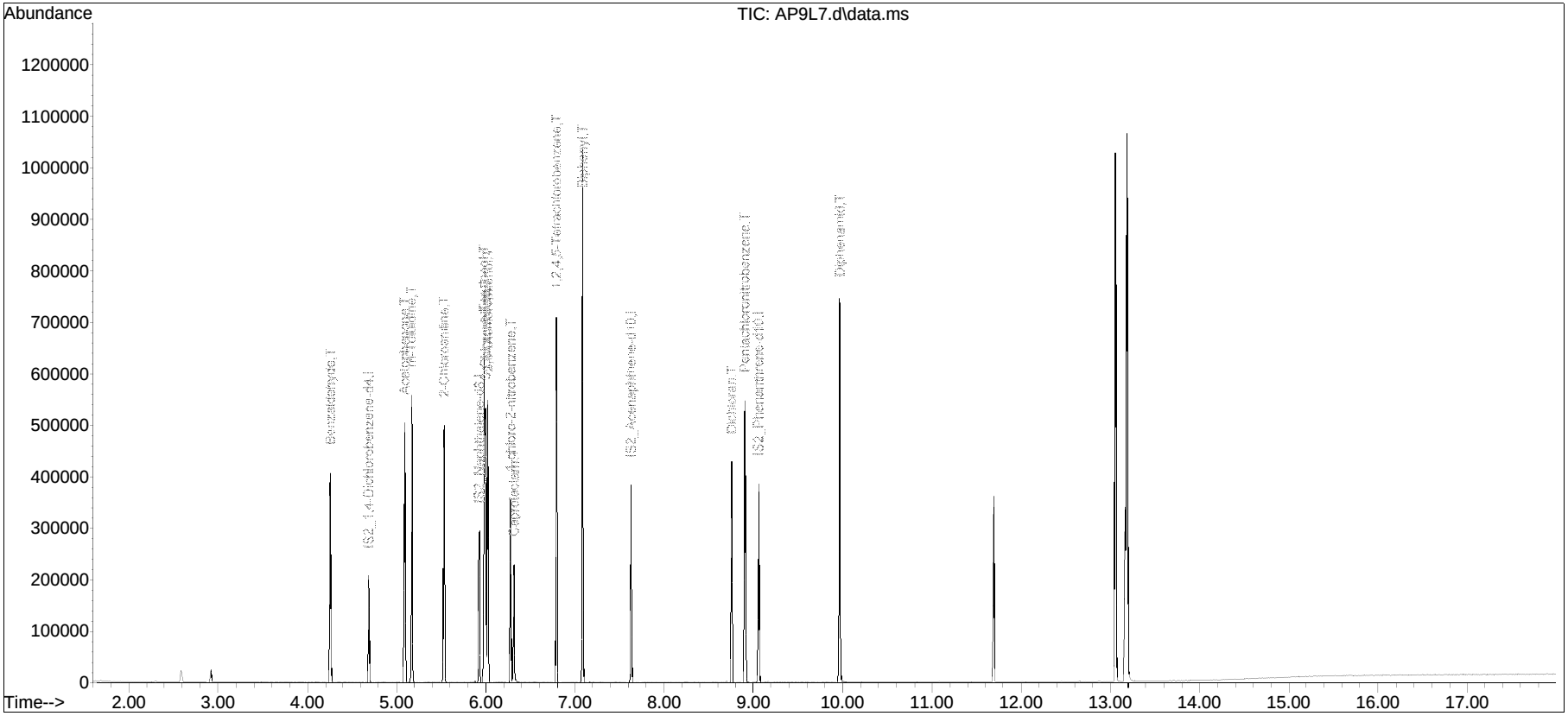
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : AP9L7.d
Acq On : 12 Oct 2020 7:35 pm
Operator : sv124:wr
Sample : IL4,32,,AP9L10 #8965
Misc : wg1422524,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 13 13:19:16 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•



Manual Integration/Negative Proof Report

Data Path	: I:\8270\SV124\201012ical\	QMethod	: FS201012SV124.m
Data File	: AP9L7.d	Operator	: sv124:wr
Date Inj'd	: 10/12/2020 7:35 pm	Instrument	: SV 124
Sample	: IL4,32,,AP9L10 #8965	Quant Date	: 10/13/2020 11:15 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : AP9L6.d
Acq On : 12 Oct 2020 7:58 pm
Operator : sv124:wr
Sample : IL5,32,,AP9L5 #8964
Misc : wg1422524,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 13 13:34:31 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 13:32:54 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\AP9L7.d
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.687	150	49180	4.000	ug/ml	0.00
Standard Area 1 = 48911			Recovery =	100.55%		
54) IS2_Naphthalene-d8	5.928	136	124317	4.000	ug/ml	0.00
Standard Area 1 = 126346			Recovery =	98.39%		
82) IS2_Acenaphthene-d10	7.628	164	67852	4.000	ug/ml	0.00
Standard Area 1 = 68596			Recovery =	98.92%		
97) IS2_Phenanthrene-d10	9.057	188	139883	4.000	ug/ml	0.00
Standard Area 1 = 139704			Recovery =	100.13%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.257	105	37075	4.895	ug/ml	94
29) Acetophenone	5.092	105	62266	4.770	ug/ml#	82
30) m-Toluidine	5.169	106	67403	4.892	ug/ml	93
31) 2-Chloroaniline	5.534	127	62669	4.962	ug/ml#	90
55) a-Terpineol	5.981	59	34968	4.859	ug/ml#	72
56) 3-Chloroaniline	5.998	65	19797	4.783	ug/ml	90
57) 2,6-Dichlorophenol	6.022	162	39279	4.789	ug/ml#	87
58) 1-chloro-2-nitrobenzene	6.275	111	19619	4.873	ug/ml#	1
59) Caprolactam	6.310	55	15346	4.675	ug/ml#	60
60) 1,2,4,5-Tetrachloroben...	6.792	216	52618	5.028	ug/ml	97
61) Biphenyl	7.086	154	134835	5.017	ug/ml	99
83) Dichloran	8.757	206	10596	4.605	ug/ml#	75
84) Pentachloronitrobenzene	8.904	237	13932	5.162	ug/ml#	87
98) Diphenamid	9.969	167	69098	4.732	ug/ml#	81

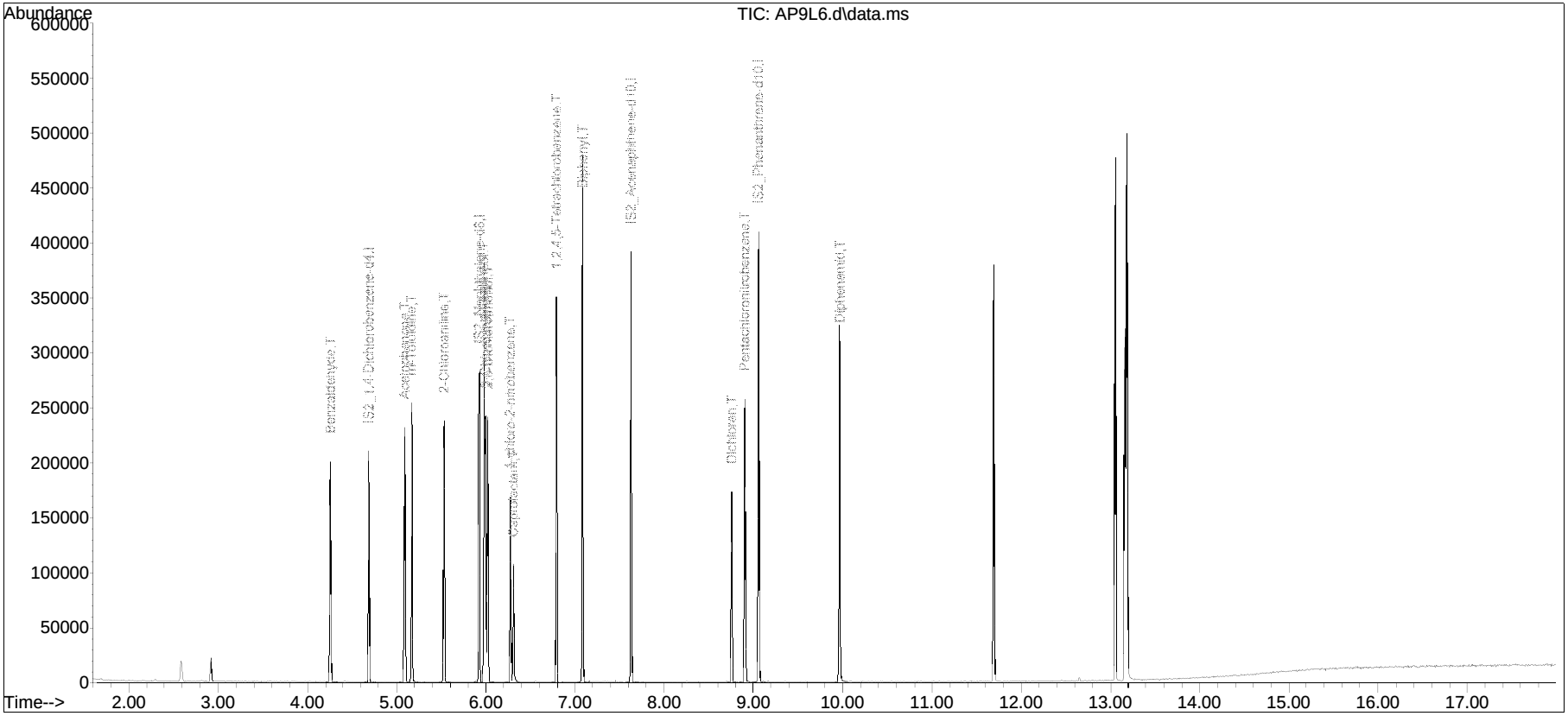
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : AP9L6.d
Acq On : 12 Oct 2020 7:58 pm
Operator : sv124:wr
Sample : IL5,32,,AP9L5 #8964
Misc : wg1422524,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 13 13:34:31 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 13:32:54 2020
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•



Manual Integration/Negative Proof Report

Data Path	: I:\8270\SV124\201012ical\	QMethod	: FS201012SV124.m
Data File	: AP9L6.d	Operator	: sv124:wr
Date Inj'd	: 10/12/2020 7:58 pm	Instrument	: SV 124
Sample	: IL5,32,,AP9L5 #8964	Quant Date	: 10/13/2020 1:34 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : AP9L5.d
Acq On : 12 Oct 2020 8:22 pm
Operator : sv124:wr
Sample : IL6,32,,AP9L3 #8963
Misc : wg1422524,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 13 13:21:15 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\AP9L7.d
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.687	150	47310	4.000	ug/ml	0.00
Standard Area 1 = 48911			Recovery = 96.73%			
54) IS2_Naphthalene-d8	5.928	136	120013	4.000	ug/ml	0.00
Standard Area 1 = 126346			Recovery = 94.99%			
82) IS2_Acenaphthene-d10	7.628	164	65291	4.000	ug/ml	0.00
Standard Area 1 = 68596			Recovery = 95.18%			
97) IS2_Phenanthrene-d10	9.057	188	135737	4.000	ug/ml	0.00
Standard Area 1 = 139704			Recovery = 97.16%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.257	105	20828	2.558	ug/ml	98
29) Acetophenone	5.092	105	36237	2.585	ug/ml#	81
30) m-Toluidine	5.169	106	37350	2.628	ug/ml	95
31) 2-Chloroaniline	5.534	127	35180	2.695	ug/ml#	91
55) a-Terpineol	5.981	59	19105	2.540	ug/ml#	72
56) 3-Chloroaniline	5.998	65	11238	2.790	ug/ml	93
57) 2,6-Dichlorophenol	6.022	162	21620	2.425	ug/ml#	87
58) 1-chloro-2-nitrobenzene	6.275	111	11093	2.584	ug/ml#	1
59) Caprolactam	6.310	55	7973	2.236	ug/ml#	62
60) 1,2,4,5-Tetrachloroben...	6.792	216	29777	2.830	ug/ml	98
61) Biphenyl	7.086	154	77629	2.907	ug/ml	99
83) Dichloran	8.757	206	5265	1.710	ug/ml#	77
84) Pentachloronitrobenzene	8.904	237	7098	2.293	ug/ml	89
98) Diphenamid	9.963	167	36048	2.142	ug/ml#	81

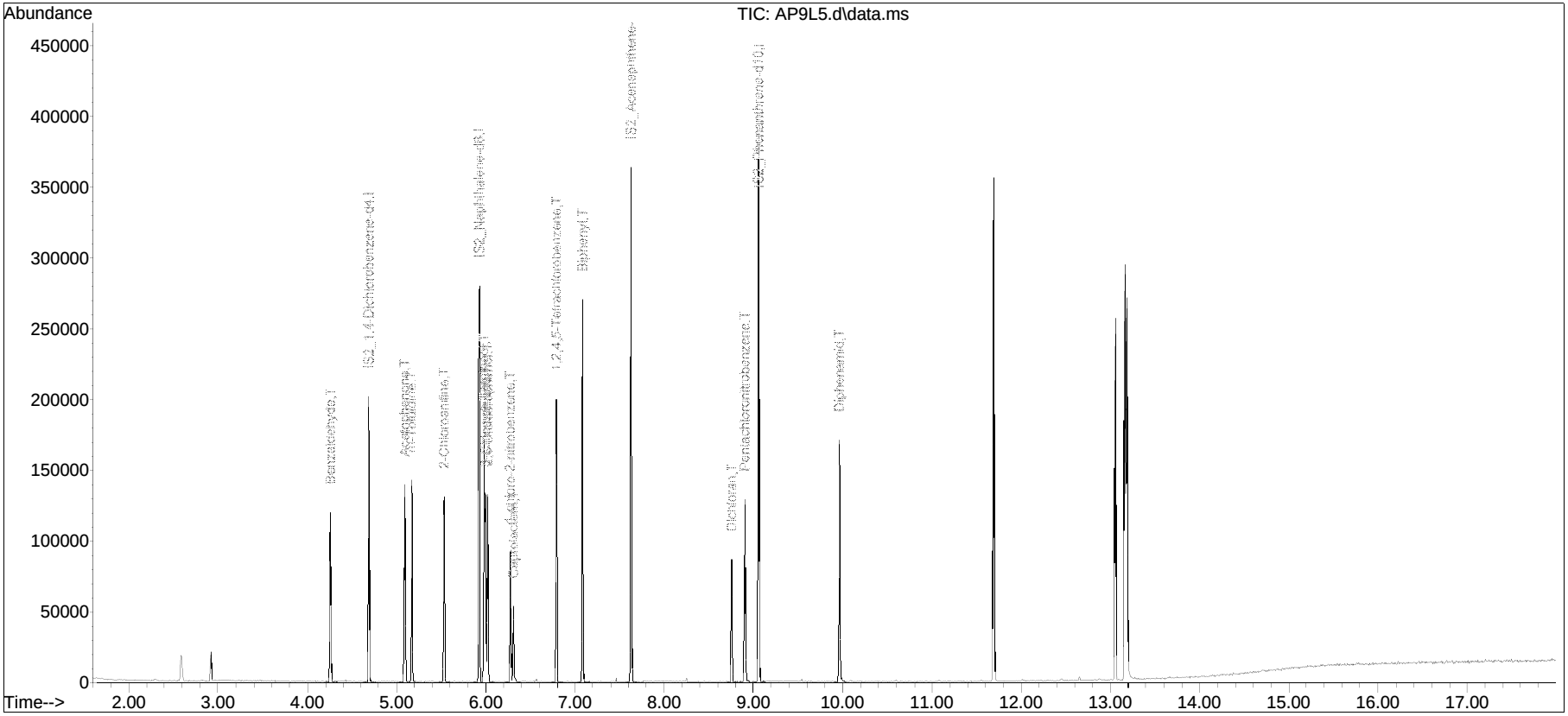
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : AP9L5.d
Acq On : 12 Oct 2020 8:22 pm
Operator : sv124:wr
Sample : IL6,32,,AP9L3 #8963
Misc : wg1422524,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 13 13:21:15 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•



Manual Integration/Negative Proof Report

Data Path	: I:\8270\SV124\201012ical\	QMethod	: FS201012SV124.m
Data File	: AP9L5.d	Operator	: sv124:wr
Date Inj'd	: 10/12/2020 8:22 pm	Instrument	: SV 124
Sample	: IL6,32,,AP9L3 #8963	Quant Date	: 10/13/2020 11:15 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : AP9L4.d
Acq On : 12 Oct 2020 8:45 pm
Operator : sv124:wr
Sample : IL7,32,,AP9L2 #8962
Misc : wg1422524,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 14 11:40:39 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 14 11:14:39 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\AP9L7.d
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
27) IS2_1,4-Dichlorobenzen...	4.687	150	45667	4.000 ug/ml	0.00
Standard Area 1 = 48911			Recovery = 93.37%		
54) IS2_Naphthalene-d8	5.928	136	116184	4.000 ug/ml	0.00
Standard Area 1 = 126346			Recovery = 91.96%		
82) IS2_Acenaphthene-d10	7.628	164	63556	4.000 ug/ml	0.00
Standard Area 1 = 68596			Recovery = 92.65%		
97) IS2_Phenanthrene-d10	9.057	188	127777	4.000 ug/ml	0.00
Standard Area 1 = 139704			Recovery = 91.46%		
System Monitoring Compounds					
Target Compounds					Qvalue
28) Benzaldehyde	4.257	105	13369	1.901 ug/ml	98
29) Acetophenone	5.093	105	22336	1.843 ug/ml#	83
30) m-Toluidine	5.169	106	23123	1.807 ug/ml	96
31) 2-Chloroaniline	5.534	127	22306	1.902 ug/ml#	92
55) a-Terpineol	5.981	59	11985	1.782 ug/ml#	72
56) 3-Chloroaniline	5.993	65	6988	1.807 ug/ml	93
57) 2,6-Dichlorophenol	6.022	162	13843	1.806 ug/ml#	84
58) 1-chloro-2-nitrobenzene	6.281	111	6652	1.768 ug/ml#	1
59) Caprolactam	6.310	55	4540	2.249 ug/ml#	57
60) 1,2,4,5-Tetrachloroben...	6.793	216	19495	1.993 ug/ml	98
61) Biphenyl	7.087	154	48793	1.942 ug/ml	98
83) Dichloran	8.757	206	3411	2.439 ug/ml#	75
84) Pentachloronitrobenzene	8.904	237	4132	1.821 ug/ml#	86
98) Diphenamid	9.963	167	20769	2.247 ug/ml#	81

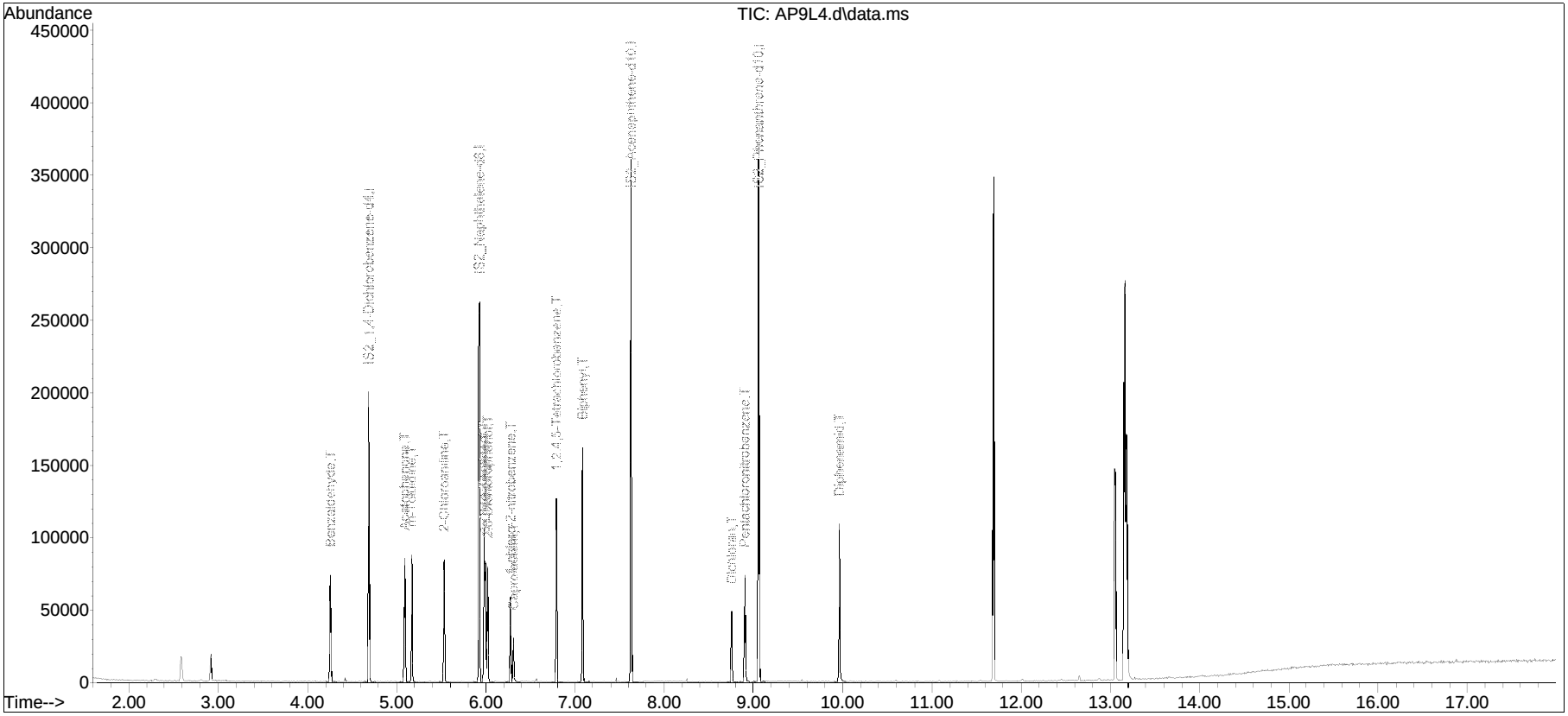
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : AP9L4.d
Acq On : 12 Oct 2020 8:45 pm
Operator : sv124:wr
Sample : IL7,32,,AP9L2 #8962
Misc : wg1422524,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 14 11:40:39 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 14 11:14:39 2020
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•



Manual Integration/Negative Proof Report

Data Path	: I:\8270\SV124\201012ical\	QMethod	: FS201012SV124.m
Data File	: AP9L4.d	Operator	: sv124:wr
Date Inj'd	: 10/12/2020 8:45 pm	Instrument	: SV 124
Sample	: IL7,32,,AP9L2 #8962	Quant Date	: 10/14/2020 11:40 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : AP9L3.d
Acq On : 12 Oct 2020 9:08 pm
Operator : sv124:wr
Sample : IL8,32,,AP9L1 #8961
Misc : wg1422524,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 14 11:39:20 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 14 11:14:39 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\AP9L7.d
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.687	150	47931	4.000	ug/ml	0.00
Standard Area 1 = 48911			Recovery = 98.00%			
54) IS2_Naphthalene-d8	5.928	136	118874	4.000	ug/ml	0.00
Standard Area 1 = 126346			Recovery = 94.09%			
82) IS2_Acenaphthene-d10	7.628	164	64002	4.000	ug/ml	0.00
Standard Area 1 = 68596			Recovery = 93.30%			
97) IS2_Phenanthrene-d10	9.057	188	131617	4.000	ug/ml	0.00
Standard Area 1 = 139704			Recovery = 94.21%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.257	105	6726	0.911	ug/ml	97
29) Acetophenone	5.093	105	11292	0.888	ug/ml#	83
30) m-Toluidine	5.175	106	11267	0.839	ug/ml	97
31) 2-Chloroaniline	5.534	127	11415	0.927	ug/ml#	88
55) a-Terpineol	5.981	59	5704	0.829	ug/ml#	67
56) 3-Chloroaniline	5.993	65	3424	0.865	ug/ml	95
57) 2,6-Dichlorophenol	6.022	162	6653	0.848	ug/ml#	82
58) 1-chloro-2-nitrobenzene	6.281	111	3435	0.892	ug/ml#	1
59) Caprolactam	6.310	55	2064	1.624	ug/ml#	59
60) 1,2,4,5-Tetrachloroben...	6.792	216	9821	0.981	ug/ml	97
61) Biphenyl	7.087	154	25051	0.975	ug/ml	99
83) Dichloran	8.757	206	1458	1.786	ug/ml#	81
84) Pentachloronitrobenzene	8.904	237	1923	1.078	ug/ml	92
98) Diphenamid	9.963	167	10212	1.610	ug/ml#	78

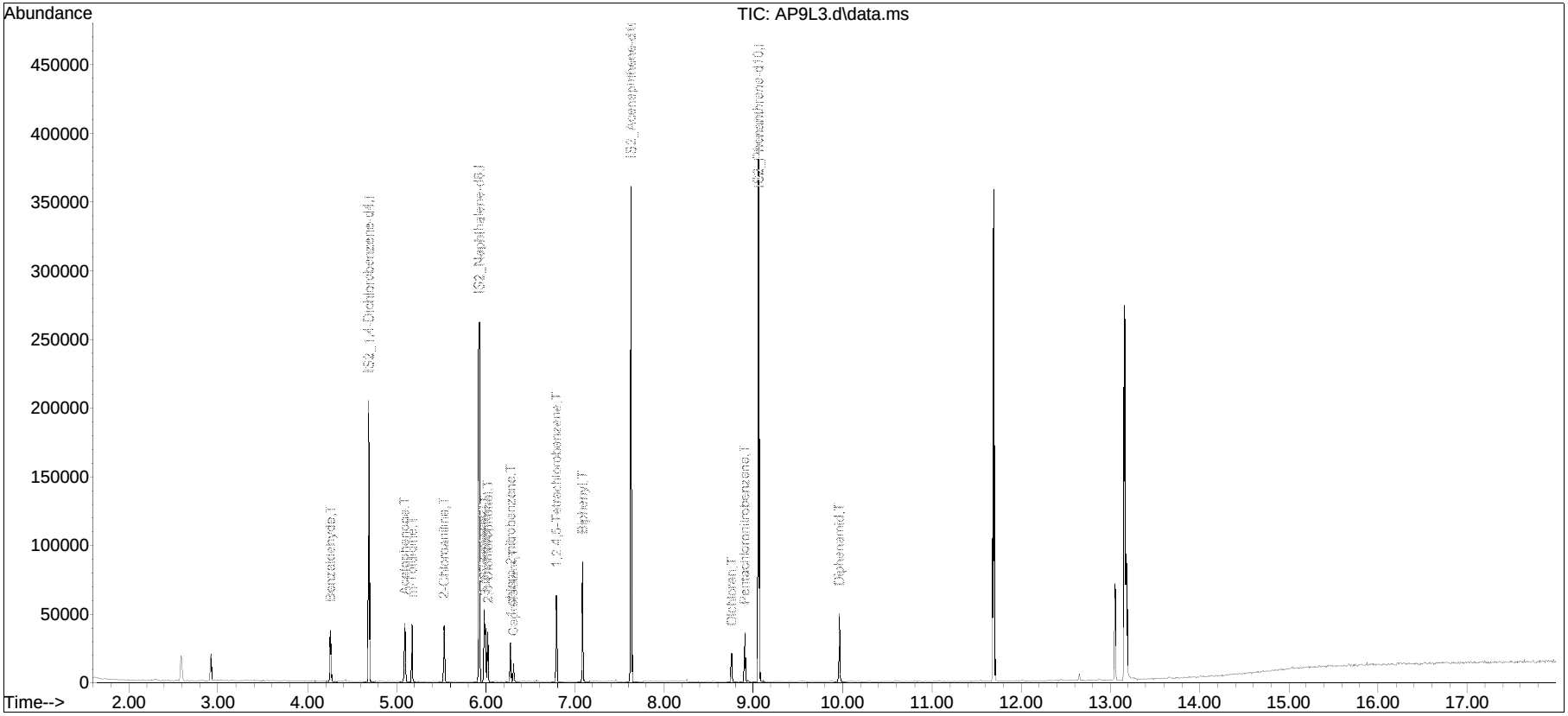
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : AP9L3.d
Acq On : 12 Oct 2020 9:08 pm
Operator : sv124:wr
Sample : IL8,32,,AP9L1 #8961
Misc : wg1422524,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 14 11:39:20 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 14 11:14:39 2020
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•



Manual Integration/Negative Proof Report

Data Path	: I:\8270\SV124\201012ical\	QMethod	: FS201012SV124.m
Data File	: AP9L3.d	Operator	: sv124:wr
Date Inj'd	: 10/12/2020 9:08 pm	Instrument	: SV 124
Sample	: IL8,32,,AP9L1 #8961	Quant Date	: 10/14/2020 11:39 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : AP9L2.d
Acq On : 12 Oct 2020 9:31 pm
Operator : sv124:wr
Sample : IL9,32,,AP9L0.4 #8960
Misc : wg1422524,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 13 13:23:05 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\AP9L7.d
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.687	150	48006	4.000	ug/ml	0.00
Standard Area 1 = 48911			Recovery = 98.15%			
54) IS2_Naphthalene-d8	5.928	136	119928	4.000	ug/ml	0.00
Standard Area 1 = 126346			Recovery = 94.92%			
82) IS2_Acenaphthene-d10	7.628	164	65315	4.000	ug/ml	0.00
Standard Area 1 = 68596			Recovery = 95.22%			
97) IS2_Phenanthrene-d10	9.057	188	131262	4.000	ug/ml	0.00
Standard Area 1 = 139704			Recovery = 93.96%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.257	105	2733	0.331	ug/ml	96
29) Acetophenone	5.092	105	4600	0.323	ug/ml#	83
30) m-Toluidine	5.175	106	4321	0.300	ug/ml	96
31) 2-Chloroaniline	5.534	127	4456	0.336	ug/ml#	92
55) a-Terpineol	5.981	59	2240	0.298	ug/ml#	65
56) 3-Chloroaniline	5.992	65	1263	0.314	ug/ml	81
57) 2,6-Dichlorophenol	6.022	162	2462	0.276	ug/ml#	84
58) 1-chloro-2-nitrobenzene	6.281	111	1323	0.308	ug/ml#	1
59) Caprolactam	6.310	55	704	0.198	ug/ml#	43
60) 1,2,4,5-Tetrachloroben...	6.792	216	3818	0.363	ug/ml	94
61) Biphenyl	7.086	154	10012	0.375	ug/ml	99
83) Dichloran	8.757	206	575M2	0.187	ug/ml	
84) Pentachloronitrobenzene	8.904	237	706	0.228	ug/ml#	41
98) Diphenamid	9.963	167	3660	0.225	ug/ml#	80

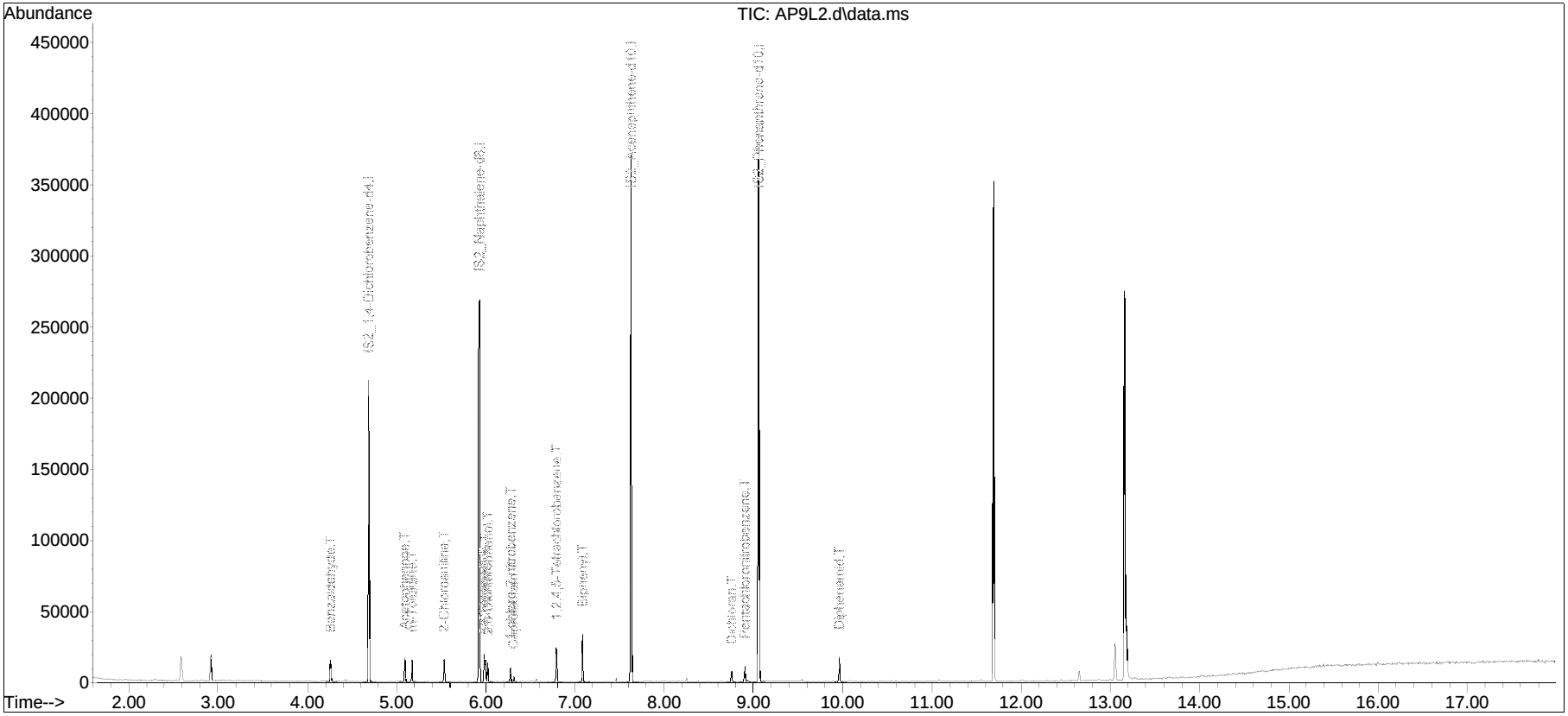
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : AP9L2.d
Acq On : 12 Oct 2020 9:31 pm
Operator : sv124:wr
Sample : IL9,32,,AP9L0.4 #8960
Misc : wg1422524,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 13 13:23:05 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

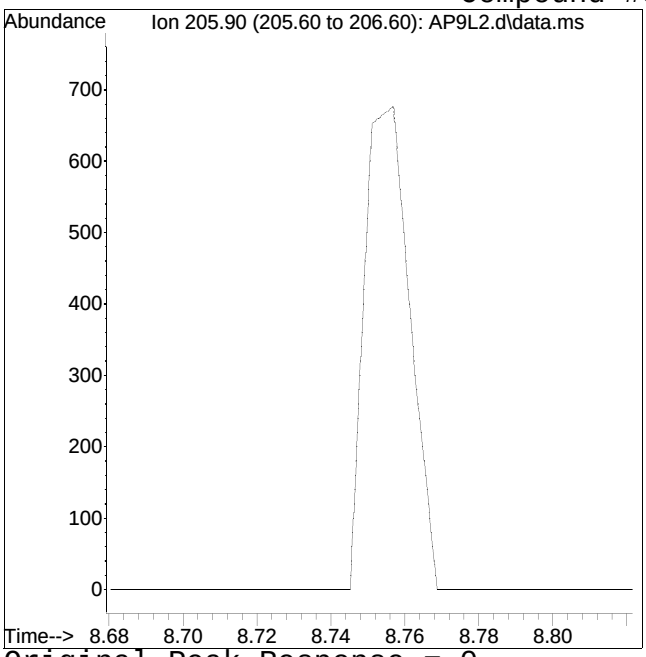
Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•

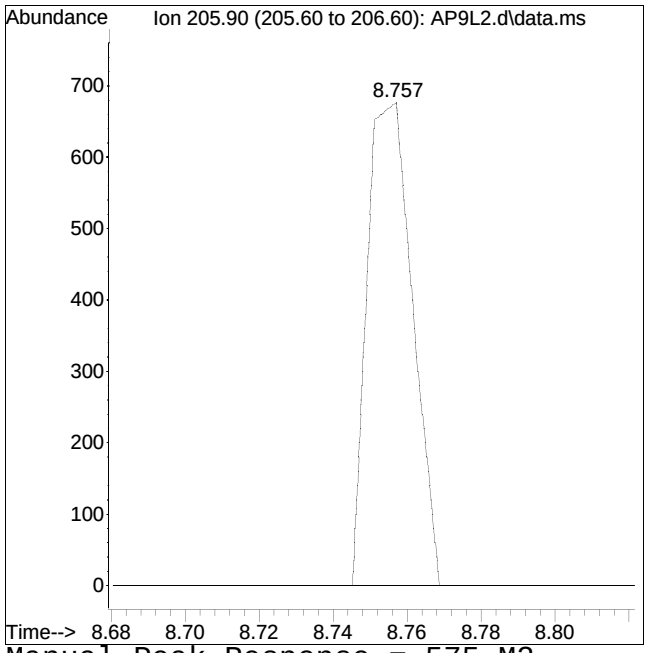


Manual Integration/Negative Proof Report

Data Path : I:\8270\SV124\201012ical\ QMethod : FS201012SV124.m
Data File : AP9L2.d Operator : sv124:wr
Date Inj'd : 10/12/2020 9:31 pm Instrument : SV 124
Sample : IL9,32,,AP9L0.4 #8960 Quant Date : 10/13/2020 11:14 am

Compound #83: Dichloran





Original Peak Response = 0 Manual Peak Response = 575 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : AP9L1.d
Acq On : 12 Oct 2020 9:55 pm
Operator : sv124:wr
Sample : IL10,32,,AP9L0.2 #8959
Misc : wg1422524,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 13 13:23:53 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\AP9L7.d
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
27) IS2_1,4-Dichlorobenzen...	4.687	150	47457	4.000 ug/ml	0.00
Standard Area 1 = 48911			Recovery = 97.03%		
54) IS2_Naphthalene-d8	5.928	136	119186	4.000 ug/ml	0.00
Standard Area 1 = 126346			Recovery = 94.33%		
82) IS2_Acenaphthene-d10	7.628	164	64105	4.000 ug/ml	0.00
Standard Area 1 = 68596			Recovery = 93.45%		
97) IS2_Phenanthrene-d10	9.057	188	130704	4.000 ug/ml	0.00
Standard Area 1 = 139704			Recovery = 93.56%		
System Monitoring Compounds					
Target Compounds					Qvalue
28) Benzaldehyde	4.257	105	1375	0.168 ug/ml	86
29) Acetophenone	5.093	105	2114	0.150 ug/ml#	72
30) m-Toluidine	5.175	106	2289	0.161 ug/ml#	86
31) 2-Chloroaniline	5.534	127	2331	0.178 ug/ml#	85
55) a-Terpineol	5.981	59	1109	0.148 ug/ml#	68
56) 3-Chloroaniline	5.993	65	651	0.163 ug/ml#	93
57) 2,6-Dichlorophenol	6.022	162	1193	0.135 ug/ml#	83
58) 1-chloro-2-nitrobenzene	6.275	111	657	0.154 ug/ml#	1
59) Caprolactam	0.000		0	N.D.	
60) 1,2,4,5-Tetrachloroben...	6.793	216	1787	0.171 ug/ml#	82
61) Biphenyl	7.087	154	5140	0.194 ug/ml	99
83) Dichloran	8.757	206	245M2	0.081 ug/ml	
84) Pentachloronitrobenzene	8.904	237	393M2	0.129 ug/ml	
98) Diphenamid	9.963	167	1723	0.106 ug/ml	86

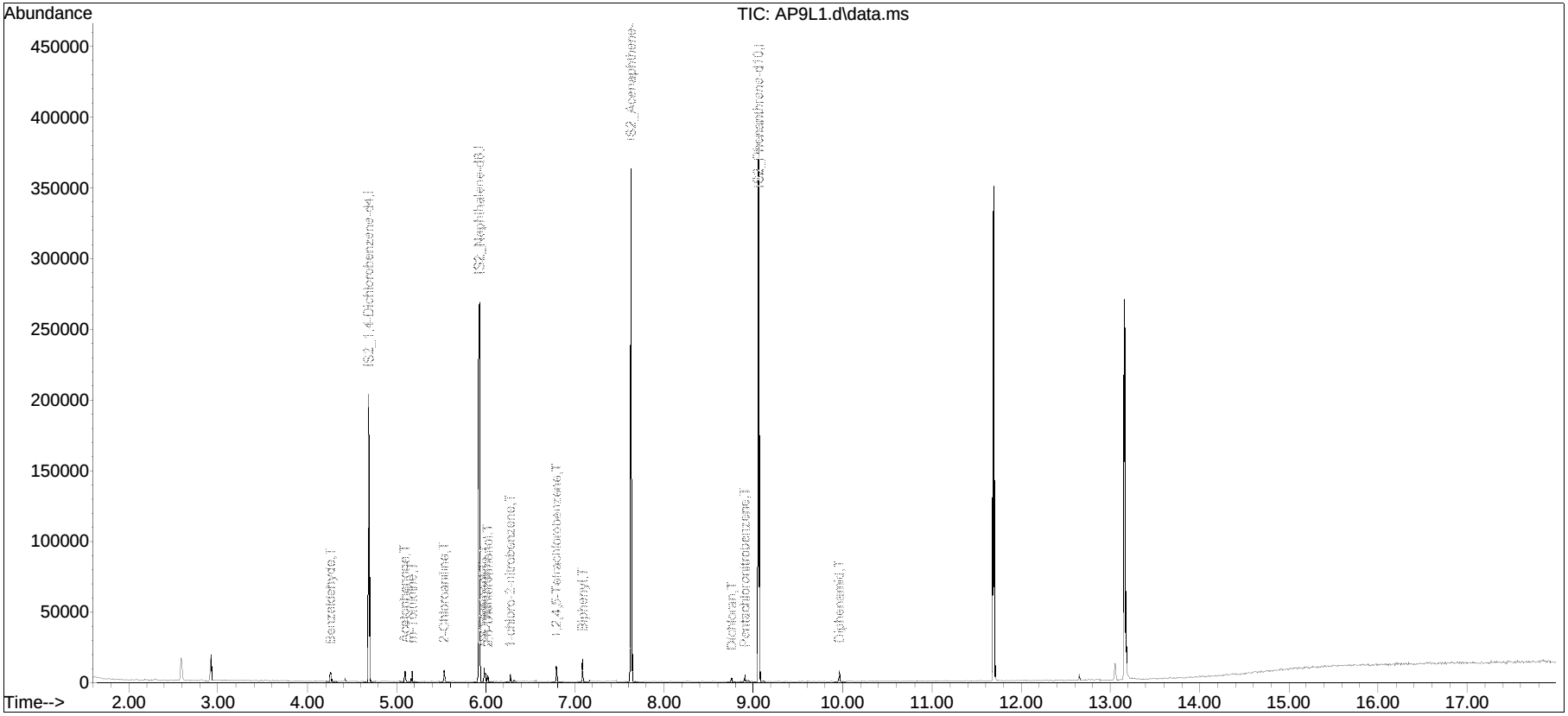
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : AP9L1.d
Acq On : 12 Oct 2020 9:55 pm
Operator : sv124:wr
Sample : IL10,32,,AP9L0.2 #8959
Misc : wg1422524,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 13 13:23:53 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

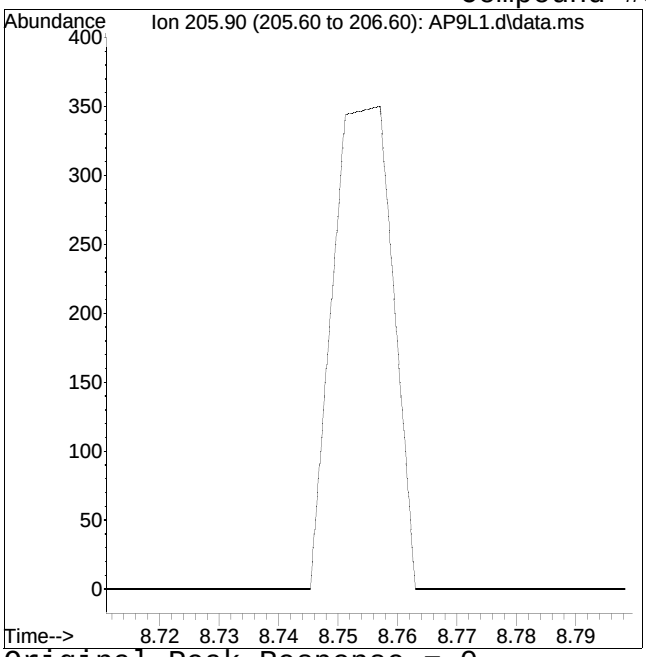
Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•



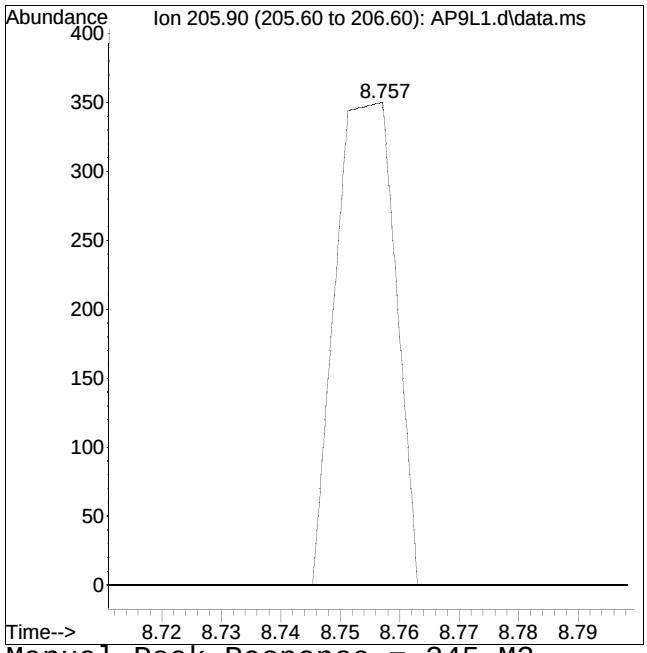
Manual Integration/Negative Proof Report

Data Path : I:\8270\SV124\201012ical\ QMethod : FS201012SV124.m
Data File : AP9L1.d Operator : sv124:wr
Date Inj'd : 10/12/2020 9:55 pm Instrument : SV 124
Sample : IL10,32,,AP9L0.2 #8959 Quant Date : 10/13/2020 11:14 am

Compound #83: Dichloran



Original Peak Response = 0



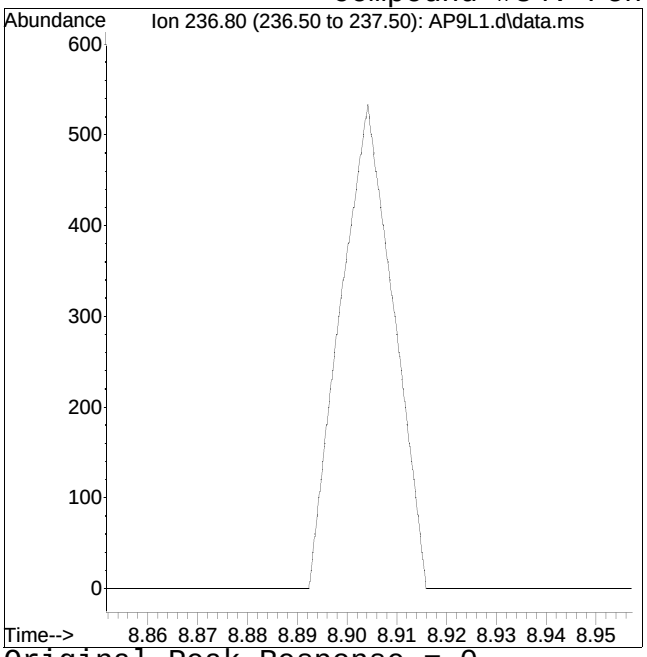
Manual Peak Response = 245 M2

M2 = Peak not found by automatic integration algorithm.

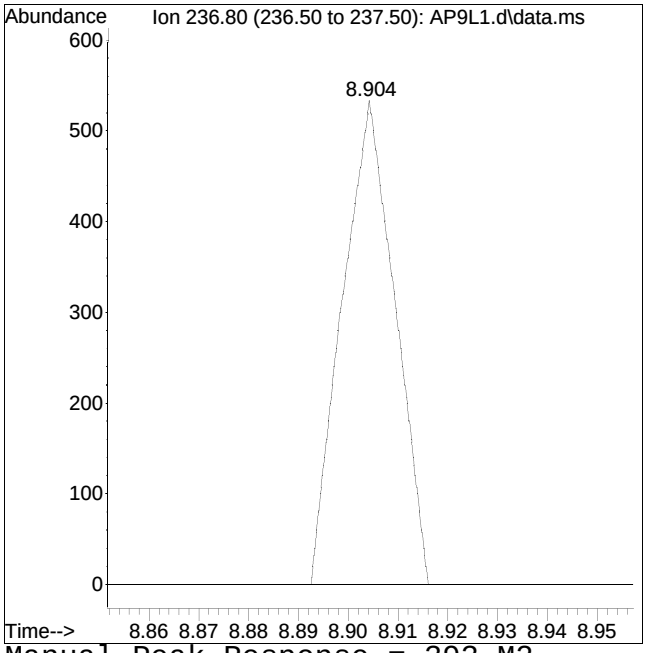
Manual Integration/Negative Proof Report

Data Path	: I:\8270\SV124\201012ical\	QMethod	: FS201012SV124.m
Data File	: AP9L1.d	Operator	: sv124:wr
Date Inj'd	: 10/12/2020 9:55 pm	Instrument	: SV 124
Sample	: IL10,32,,AP9L0.2 #8959	Quant Date	: 10/13/2020 11:14 am

Compound #84: Pentachloronitrobenzene



Original Peak Response = 0



Manual Peak Response = 393 M2

M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV124\201012ical\
Data File : AP9ICV.d
Acq On : 12 Oct 2020 10:41 pm
Operator : sv124:wr
Sample : CQICV2,32,,AP9ICV #8980
Misc : wg1422524,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 13 15:26:25 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 15:20:47 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	104	0.00
28	T	Benzaldehyde		0.616	0.539	12.5	93	0.00
29	T	Acetophenone		1.062	0.952	10.4	98	0.00
30	T	m-Toluidine		1.121	1.025	8.6	97	0.00
31	T	2-Chloroaniline		1.027	0.929	9.5	95	0.00
54	I	IS2_Naphthalene-d8		1.000	1.000	0.0	107	0.00
55	T	a-Terpineol		0.232	0.199	14.2	94	0.00
56	T	3-Chloroaniline		0.133	0.118	11.3	99	0.00
57	T	2,6-Dichlorophenol		0.264	0.230	12.9	97	0.00
58	T	1-chloro-2-nitrobenzene		0.130	0.113	13.1	95	0.00
59	T	Caprolactam	*	5.000	4.316	13.7	96	0.00
60	T	1,2,4,5-Tetrachlorobenzene		0.337	0.305	9.5	96	0.00
61	T	Biphenyl		0.865	0.768	11.2	94	0.00
82	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	108	0.00
83	T	Dichloran	*	5.000	3.998	20.0#	88	0.00
84	T	Pentachloronitrobenzene	*	5.000	4.107	17.9	90	0.00
97	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	108	0.00
98	T	Diphenamid	*	5.000	4.203	15.9	93	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : AP9ICV.d
Acq On : 12 Oct 2020 10:41 pm
Operator : sv124:wr
Sample : CQICV2,32,,AP9ICV #8980
Misc : wg1422524,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 13 15:26:25 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 15:20:47 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\AP9L7.d
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.687	150	51084	4.000	ug/ml	0.00
Standard Area 1 = 48911			Recovery =	104.44%		
54) IS2_Naphthalene-d8	5.928	136	132435	4.000	ug/ml	0.00
Standard Area 1 = 126346			Recovery =	104.82%		
82) IS2_Acenaphthene-d10	7.628	164	73041	4.000	ug/ml	0.00
Standard Area 1 = 68596			Recovery =	106.48%		
97) IS2_Phenanthrene-d10	9.057	188	151082	4.000	ug/ml	0.00
Standard Area 1 = 139704			Recovery =	108.14%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.257	105	34440	4.378	ug/ml	97
29) Acetophenone	5.093	105	60769	4.482	ug/ml#	82
30) m-Toluidine	5.169	106	65478	4.575	ug/ml	94
31) 2-Chloroaniline	5.534	127	59304	4.521	ug/ml#	91
55) a-Terpineol	5.981	59	33025	4.308	ug/ml#	73
56) 3-Chloroaniline	5.998	65	19537	4.431	ug/ml	95
57) 2,6-Dichlorophenol	6.022	162	38062	4.356	ug/ml#	87
58) 1-chloro-2-nitrobenzene	6.275	111	18624	4.342	ug/ml#	1
59) Caprolactam	6.310	55	14694	4.316	ug/ml#	66
60) 1,2,4,5-Tetrachloroben...	6.792	216	50562	4.535	ug/ml	98
61) Biphenyl	7.087	154	127206	4.443	ug/ml	100
83) Dichloran	8.757	206	9309	3.998	ug/ml#	74
84) Pentachloronitrobenzene	8.904	237	12605	4.107	ug/ml#	87
98) Diphenamid	9.963	167	63984	4.203	ug/ml#	80

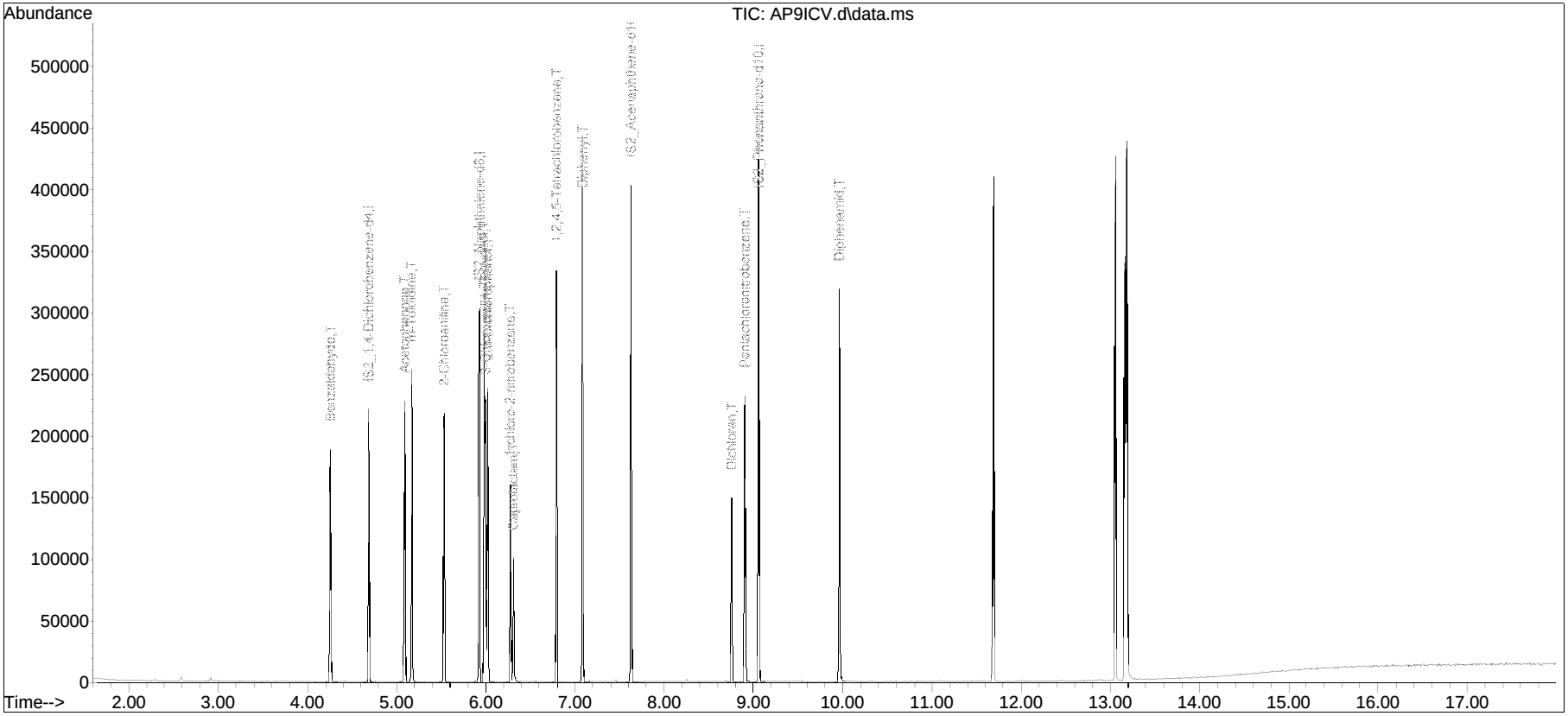
(#) = qualifier out of range (m) = manual integration (+) = signals summed

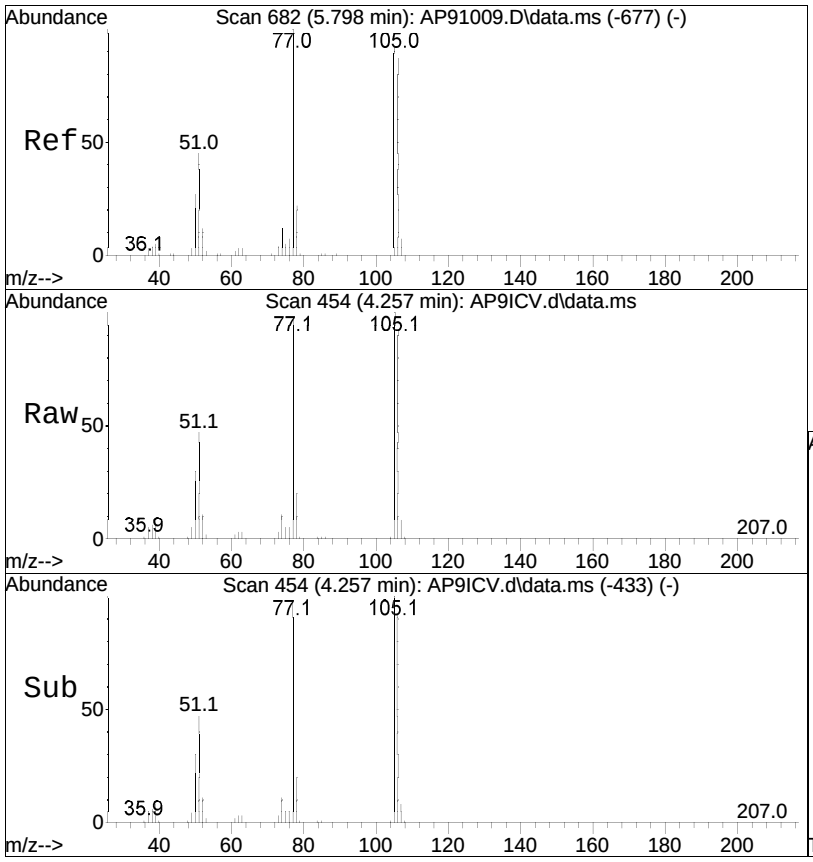
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : AP9ICV.d
Acq On : 12 Oct 2020 10:41 pm
Operator : sv124:wr
Sample : CQICV2,32,,AP9ICV #8980
Misc : wg1422524,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 13 15:26:25 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 15:20:47 2020
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.d•

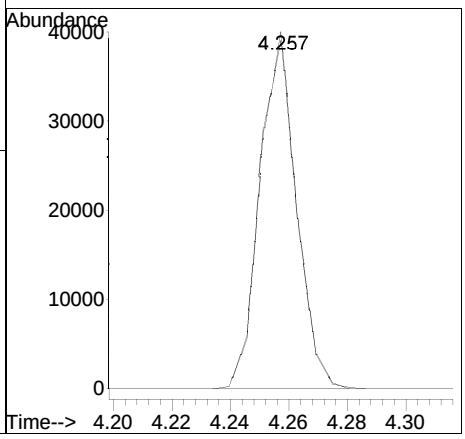


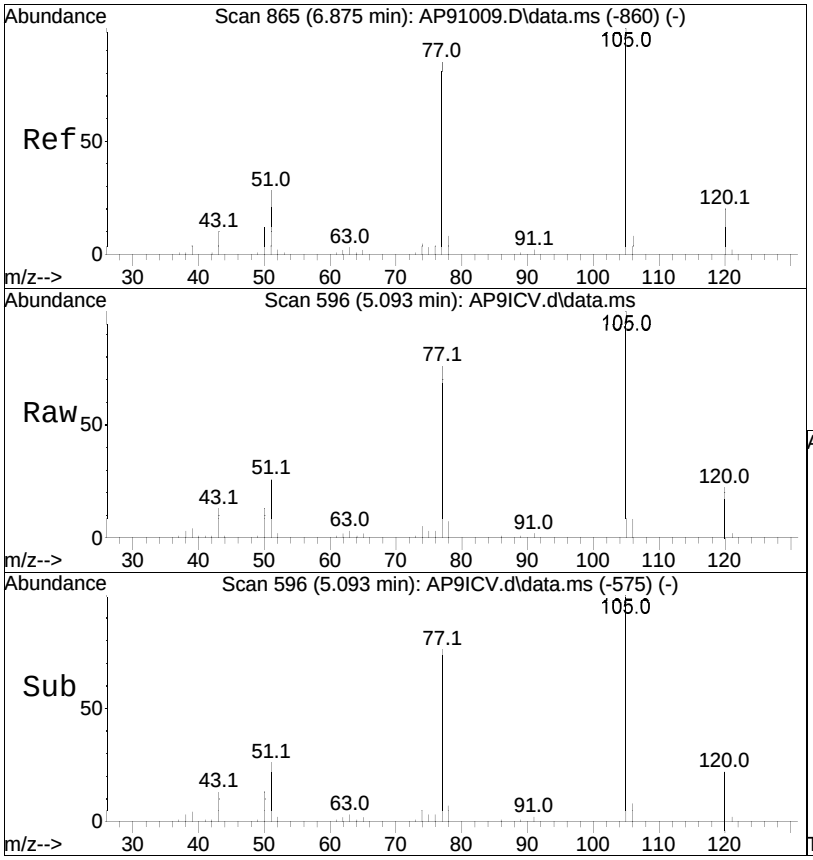


#28
Benzaldehyde
Concen: 4.38 ug/ml
RT: 4.257 min Scan# 454
Delta R.T. 0.000 min
Lab File: AP9ICV.d
Acq: 12 Oct 2020 10:41 pm

Tgt Ion:105 Resp: 34440

Ion	Ratio	Lower	Upper
105	100		
77	99.6	82.2	123.4

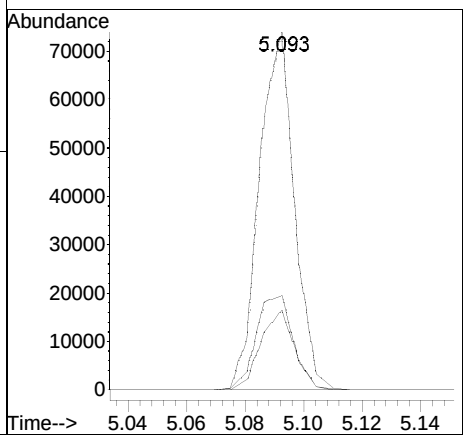


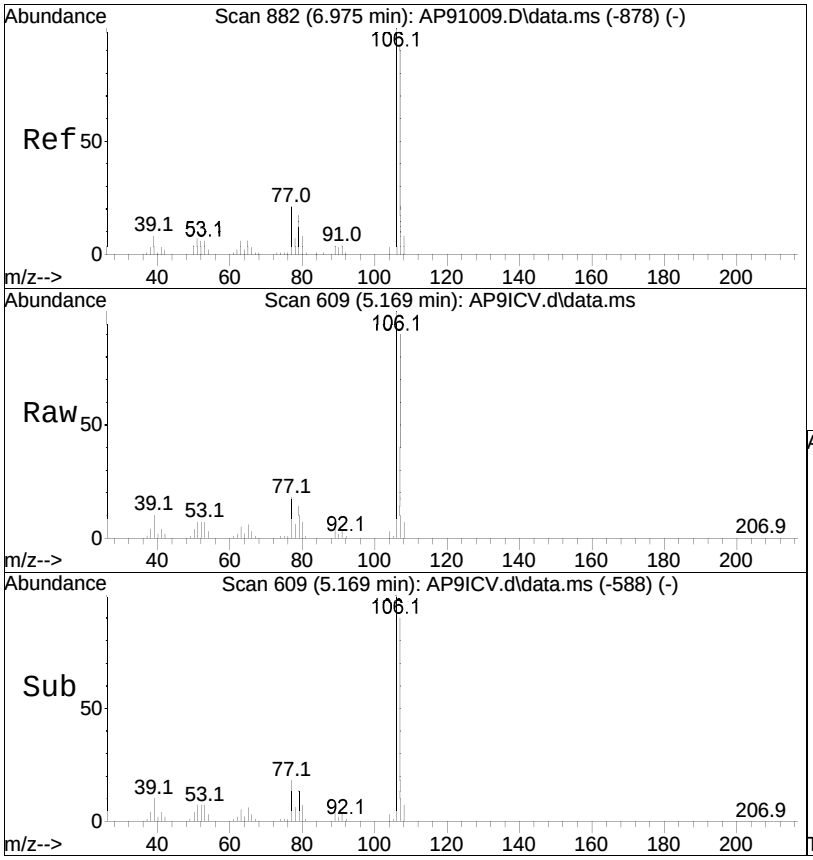


#29
Acetophenone
Concen: 4.48 ug/ml
RT: 5.093 min Scan# 596
Delta R.T. 0.001 min
Lab File: AP9ICV.d
Acq: 12 Oct 2020 10:41 pm

Tgt Ion:105 Resp: 60769

Ion	Ratio	Lower	Upper
105	100		
120	21.6	20.5	30.7
51	28.1	34.9	52.3#

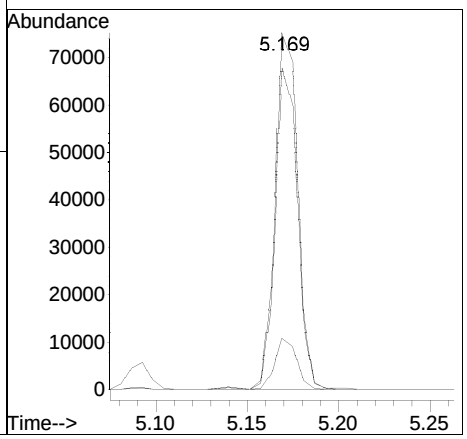


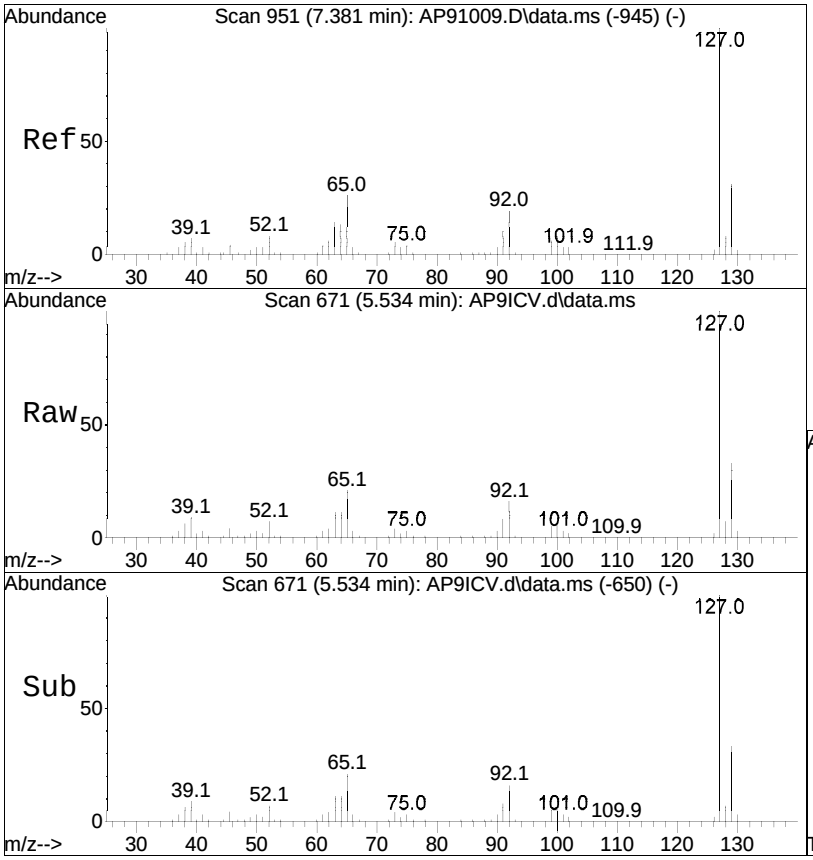


#30
m-Toluidine
Concen: 4.58 ug/ml
RT: 5.169 min Scan# 609
Delta R.T. 0.000 min
Lab File: AP9ICV.d
Acq: 12 Oct 2020 10:41 pm

Tgt Ion:106 Resp: 65478

Ion	Ratio	Lower	Upper
106	100		
107	87.8	75.7	113.5
79	13.7	11.8	17.8

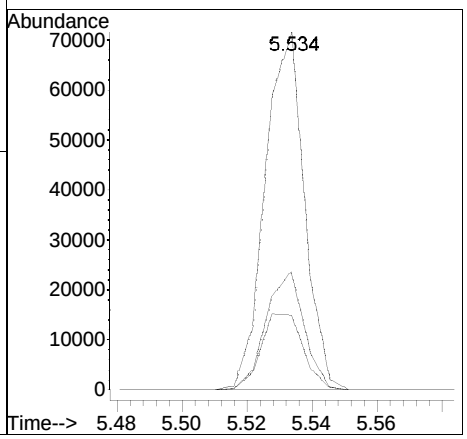


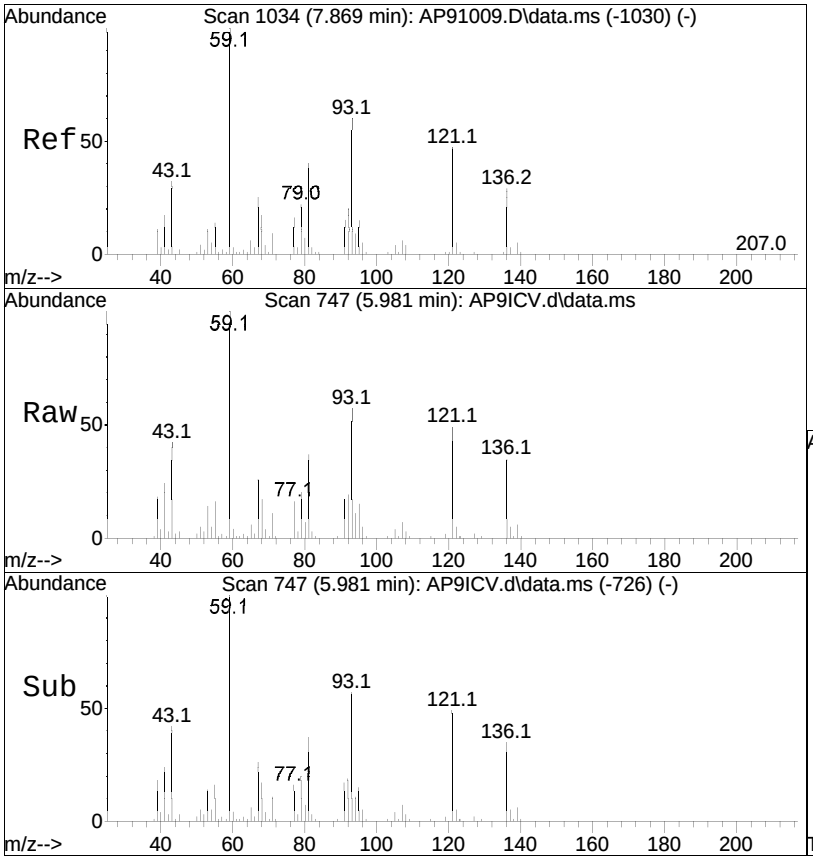


#31
2-Chloroaniline
Concen: 4.52 ug/ml
RT: 5.534 min Scan# 671
Delta R.T. -0.000 min
Lab File: AP9ICV.d
Acq: 12 Oct 2020 10:41 pm

Tgt Ion:127 Resp: 59304

Ion	Ratio	Lower	Upper
127	100		
129	32.3	25.9	38.9
65	23.0	26.3	39.5#

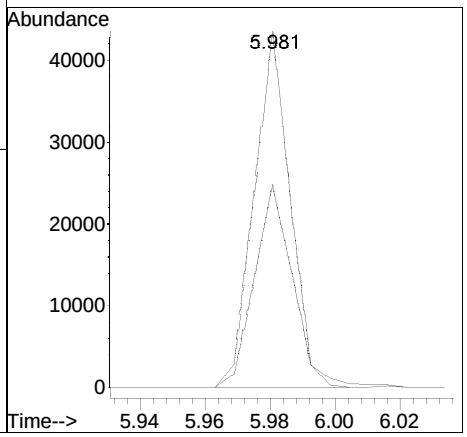


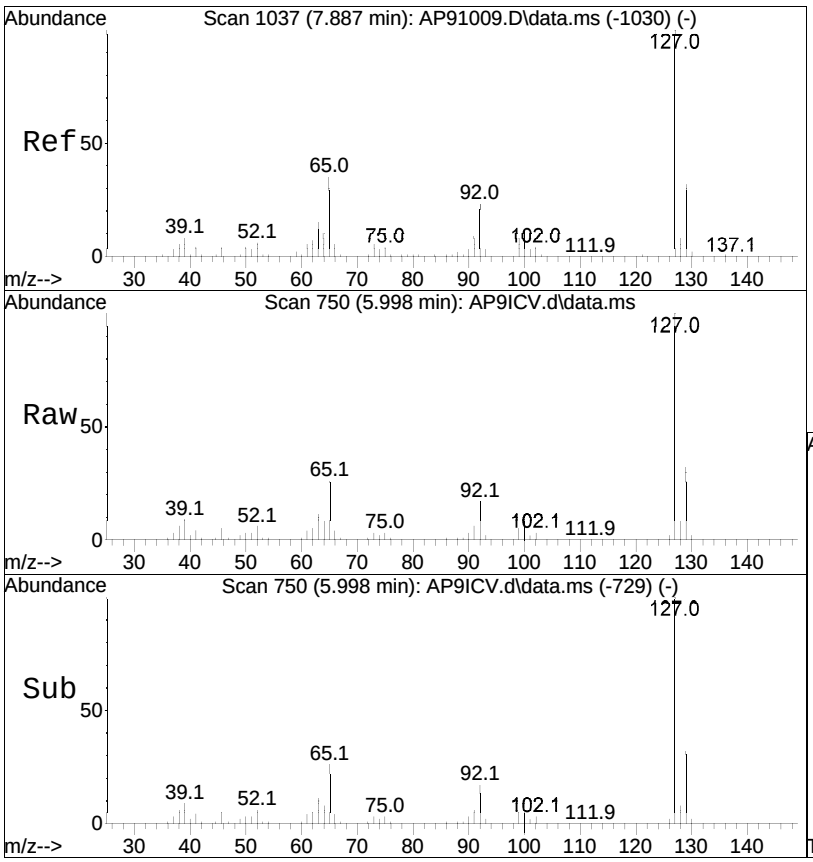


#55
a-Terpineol
Concen: 4.31 ug/ml
RT: 5.981 min Scan# 747
Delta R.T. -0.000 min
Lab File: AP9ICV.d
Acq: 12 Oct 2020 10:41 pm

Tgt Ion: 59 Resp: 33025

Ion	Ratio	Lower	Upper
59	100		
93	62.0	35.6	53.4#

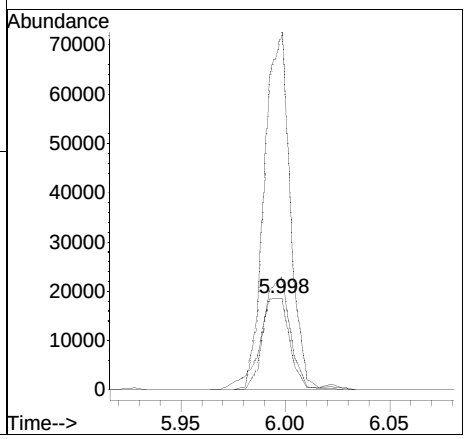


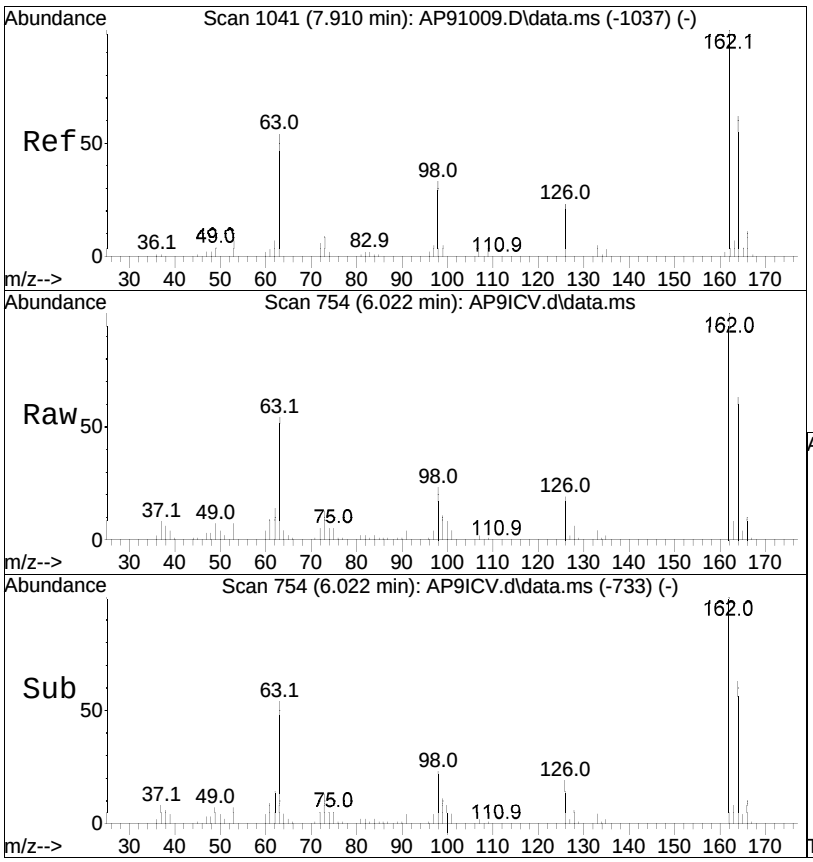


#56
3-Chloroaniline
Concen: 4.43 ug/ml
RT: 5.998 min Scan# 750
Delta R.T. 0.000 min
Lab File: AP9ICV.d
Acq: 12 Oct 2020 10:41 pm

Tgt Ion: 65 Resp: 19537

Ion	Ratio	Lower	Upper
65	100		
127	317.0	243.2	364.8
129	100.6	78.8	118.2

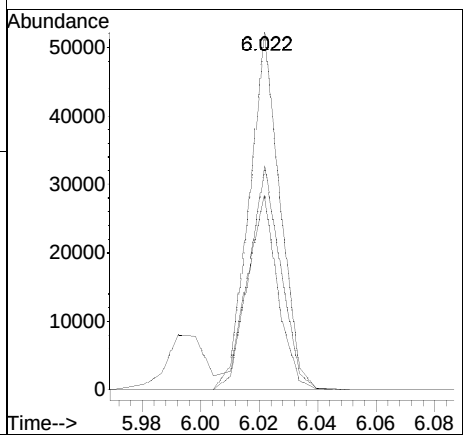


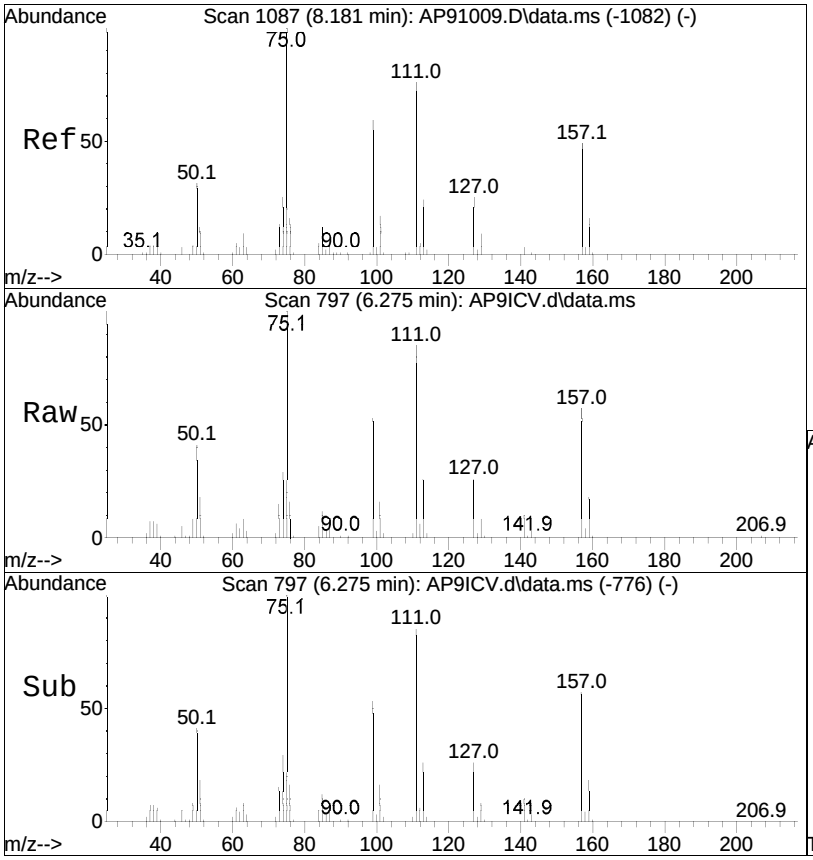


#57
2,6-Dichlorophenol
Concen: 4.36 ug/ml
RT: 6.022 min Scan# 754
Delta R.T. -0.000 min
Lab File: AP9ICV.d
Acq: 12 Oct 2020 10:41 pm

Tgt Ion:162 Resp: 38062

Ion	Ratio	Lower	Upper
162	100		
164	64.2	51.1	76.7
63	55.1	60.8	91.2#

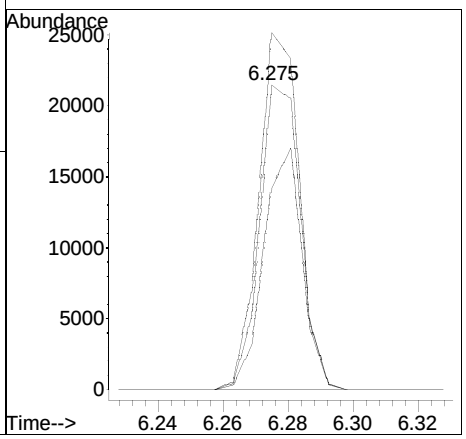


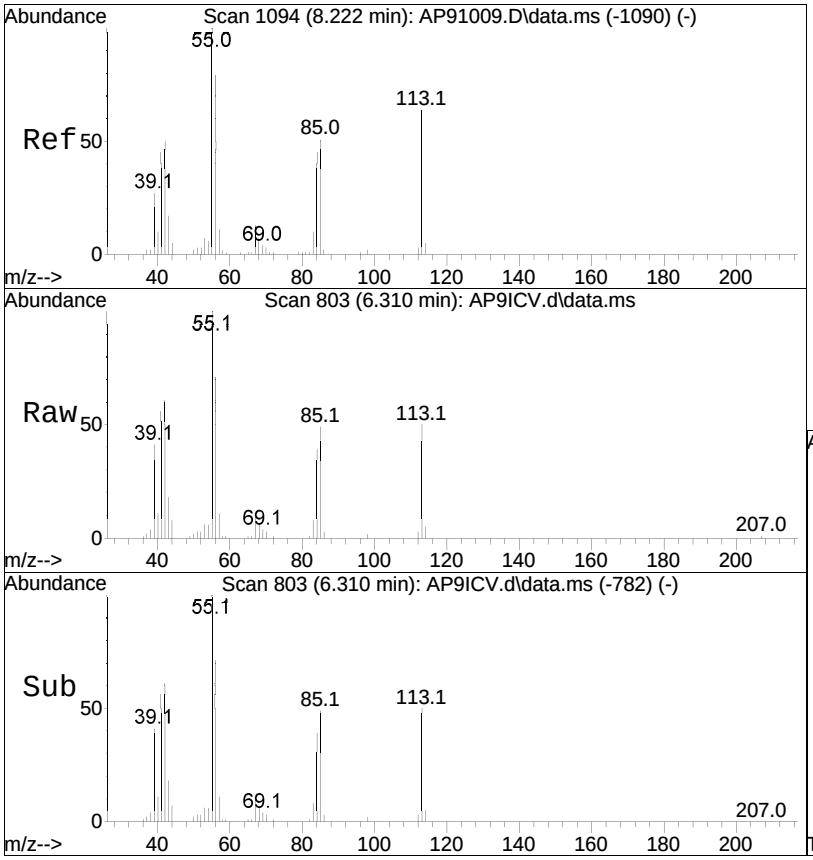


#58
1-chloro-2-nitrobenzene
Concen: 4.34 ug/ml
RT: 6.275 min Scan# 797
Delta R.T. -0.000 min
Lab File: AP9ICV.d
Acq: 12 Oct 2020 10:41 pm

Tgt Ion:111 Resp: 18624

Ion	Ratio	Lower	Upper
111	100		
157	74.8	0.0	0.0#
75	116.1	28.2	42.2#

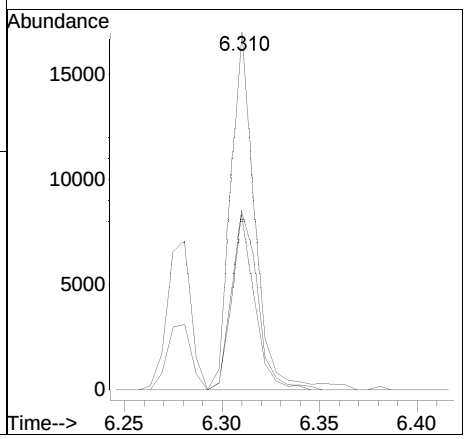


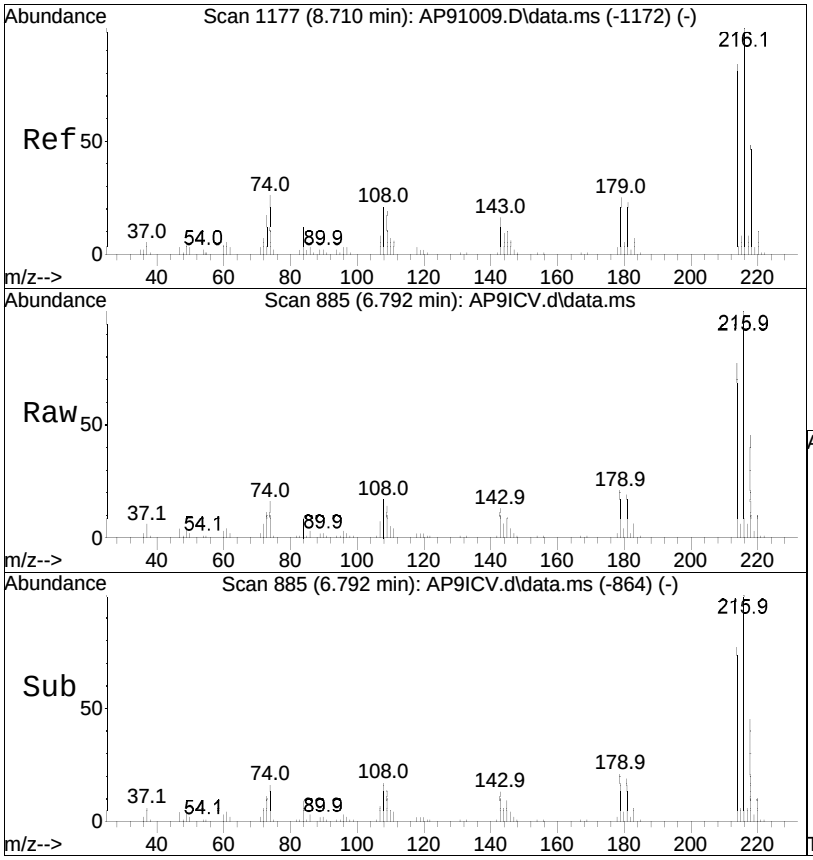


#59
Caprolactam
Concen: 4.32 ug/ml
RT: 6.310 min Scan# 803
Delta R.T. 0.000 min
Lab File: AP9ICV.d
Acq: 12 Oct 2020 10:41 pm

Tgt Ion: 55 Resp: 14694

Ion	Ratio	Lower	Upper
55	100		
85	45.9	19.8	29.6#
113	53.7	29.6	44.4#

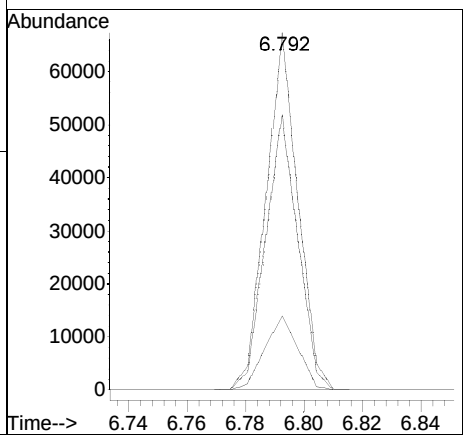


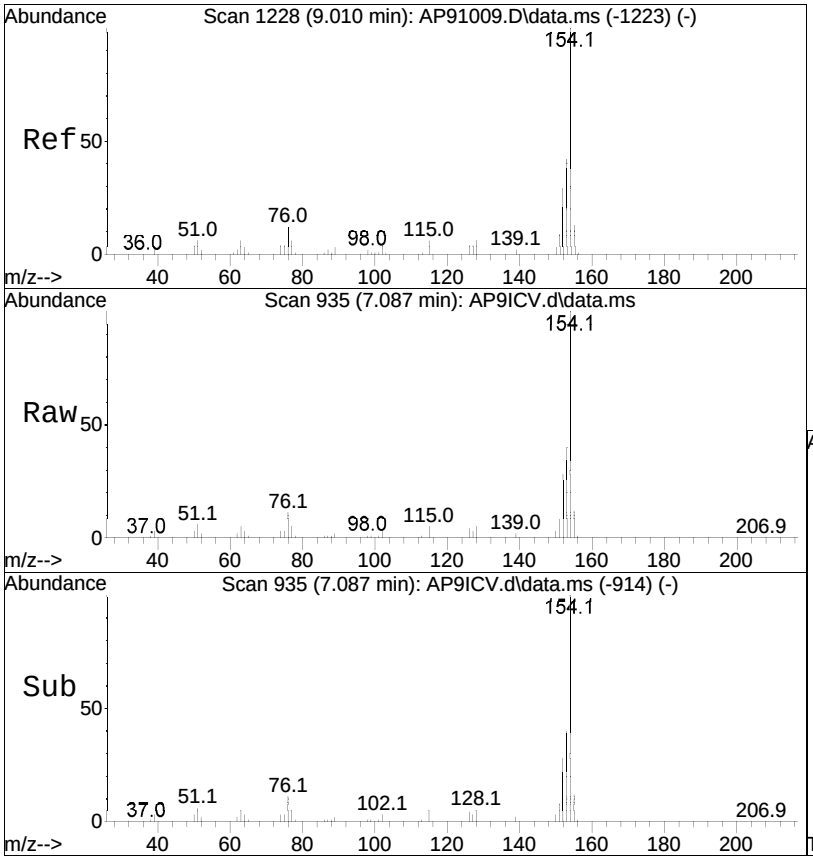


#60
1,2,4,5-Tetrachlorobenzene
Concen: 4.54 ug/ml
RT: 6.792 min Scan# 885
Delta R.T. 0.000 min
Lab File: AP9ICV.d
Acq: 12 Oct 2020 10:41 pm

Tgt Ion:216 Resp: 50562

Ion	Ratio	Lower	Upper
216	100		
214	78.0	63.7	95.5
179	21.8	19.0	28.6

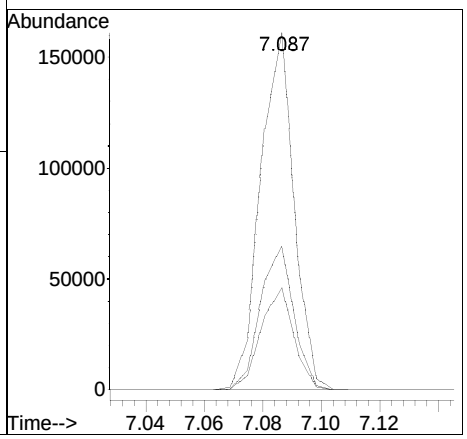


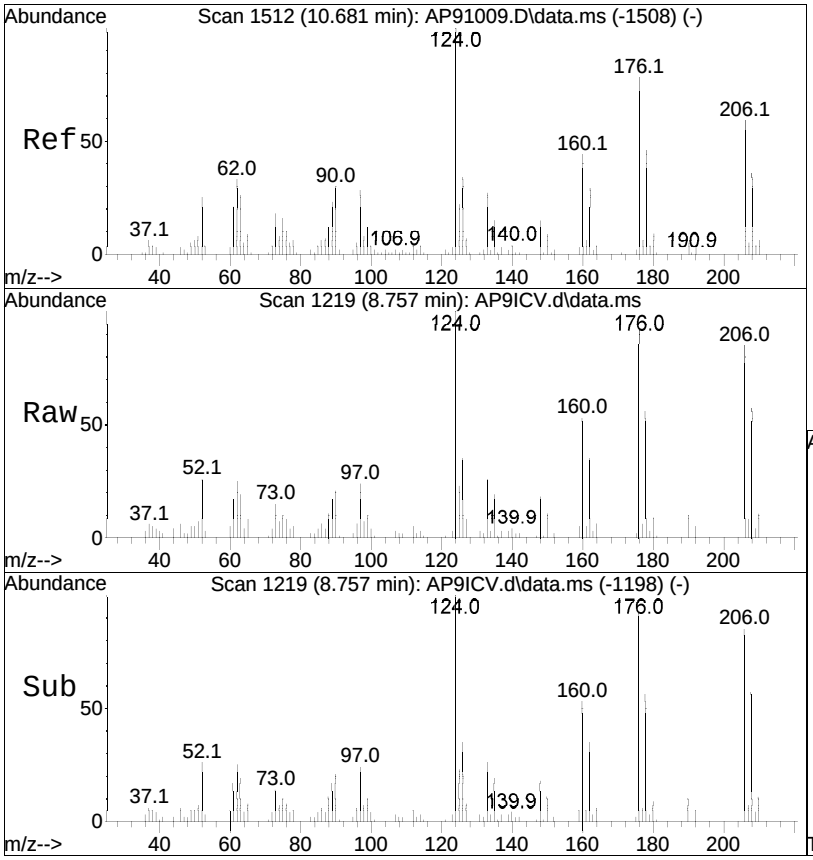


#61
Biphenyl
Concen: 4.44 ug/ml
RT: 7.087 min Scan# 935
Delta R.T. 0.001 min
Lab File: AP9ICV.d
Acq: 12 Oct 2020 10:41 pm

Tgt Ion:154 Resp: 127206

Ion	Ratio	Lower	Upper
154	100		
153	40.5	32.3	48.5
152	28.4	22.5	33.7

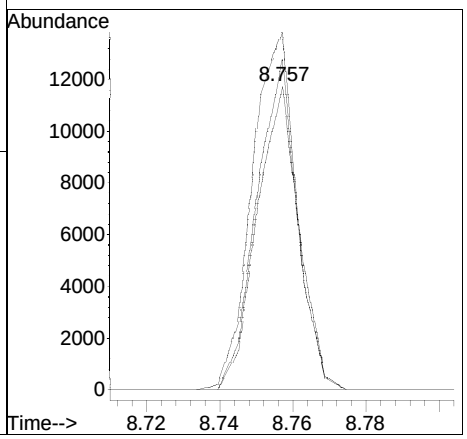


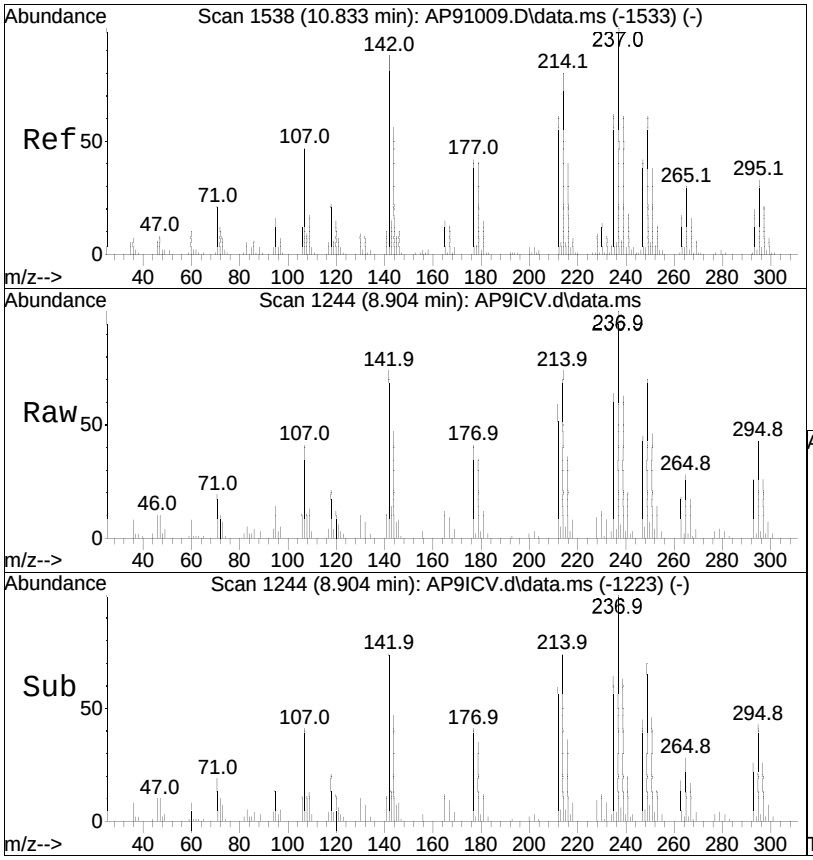


#83
Dichloran
Concen: 4.00 ug/ml
RT: 8.757 min Scan# 1219
Delta R.T. 0.000 min
Lab File: AP9ICV.d
Acq: 12 Oct 2020 10:41 pm

Tgt Ion:206 Resp: 9309

Ion	Ratio	Lower	Upper
206	100		
176	105.5	104.6	157.0
124	124.4	130.5	195.7#

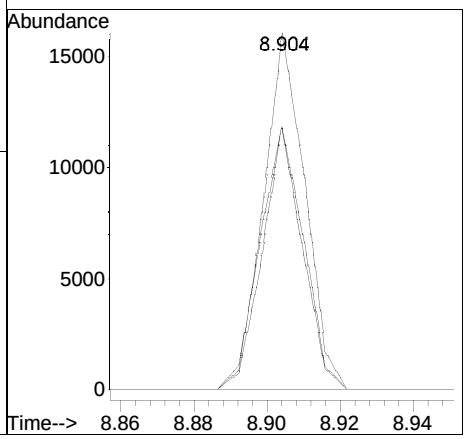


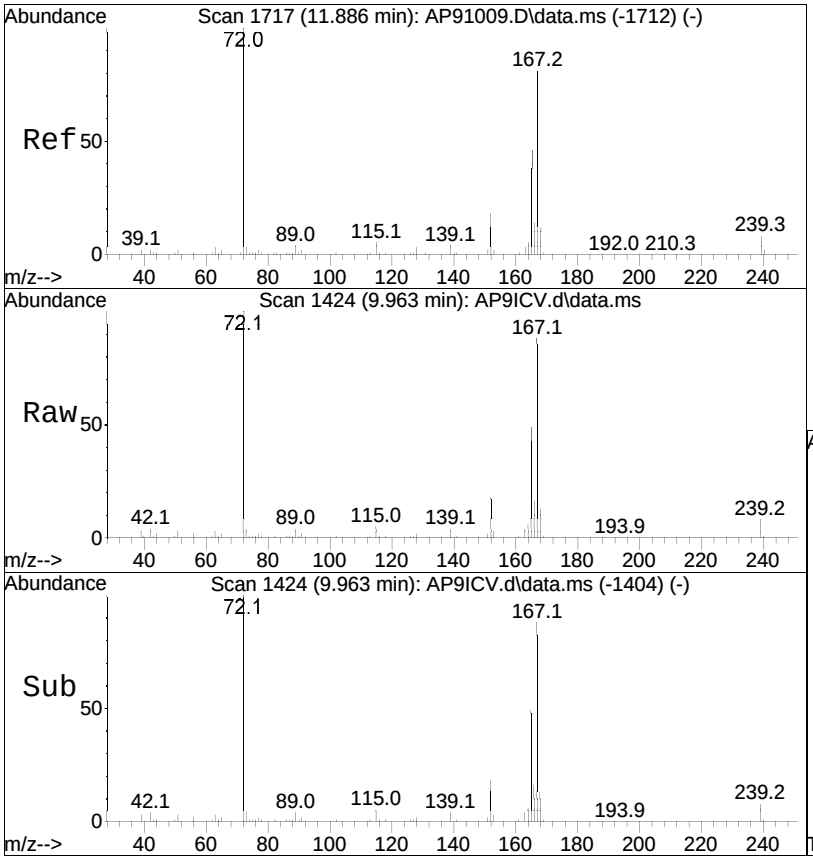


#84
Pentachloronitrobenzene
Concen: 4.11 ug/ml
RT: 8.904 min Scan# 1244
Delta R.T. 0.000 min
Lab File: AP9ICV.d
Acq: 12 Oct 2020 10:41 pm

Tgt Ion:237 Resp: 12605

Ion	Ratio	Lower	Upper
237	100		
142	75.1	77.0	115.4#
214	73.3	58.2	87.4

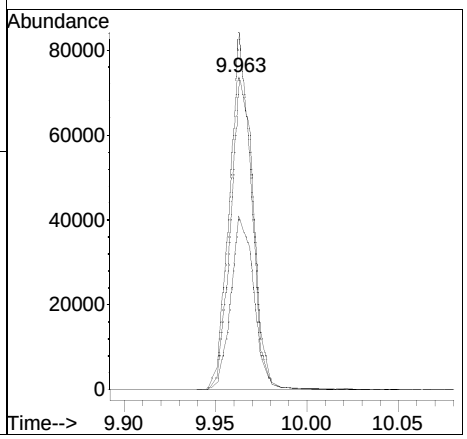




#98
Diphenamid
Concen: 4.20 ug/ml
RT: 9.963 min Scan# 1424
Delta R.T. -0.006 min
Lab File: AP9ICV.d
Acq: 12 Oct 2020 10:41 pm

Tgt Ion:167 Resp: 63984

Ion	Ratio	Lower	Upper
167	100		
72	107.2	109.7	164.5#
165	56.9	41.8	62.6



Manual Integration/Negative Proof Report

Data Path	: I:\8270\SV124\201012ical\	QMethod	: FS201012SV124.m
Data File	: AP9ICV.d	Operator	: sv124:wr
Date Inj'd	: 10/12/2020 10:41 pm	Instrument	: SV 124
Sample	: CQICV2,32,,AP9ICV #8980	Quant Date	: 10/13/2020 3:26 pm

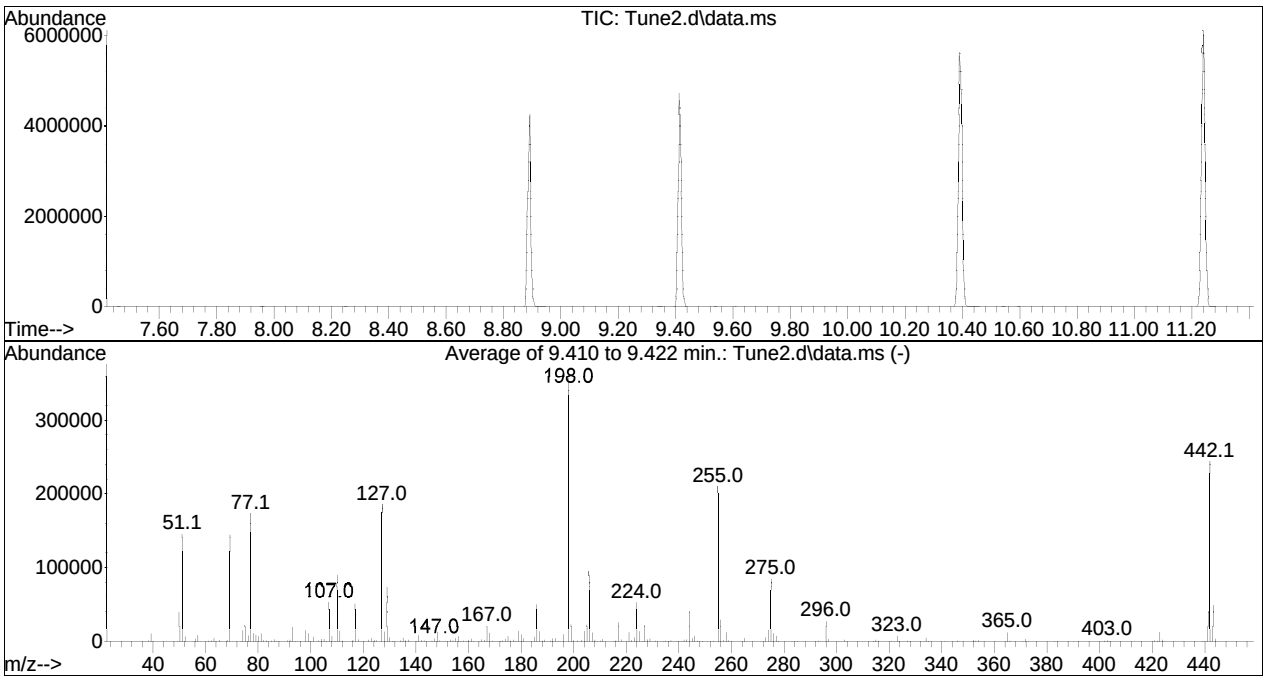
There are no manual integrations or false positives in this file.

DFTPP

Data Path : I:\8270\SV124\201012ical\
Data File : Tune2.d
Acq On : 12 Oct 2020 11:04 pm
Operator : sv124:wr
Sample : TUNE
Misc : wg1422524,,
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV124\201012ical\FS201012SV124.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Oct 15 15:41:06 2020



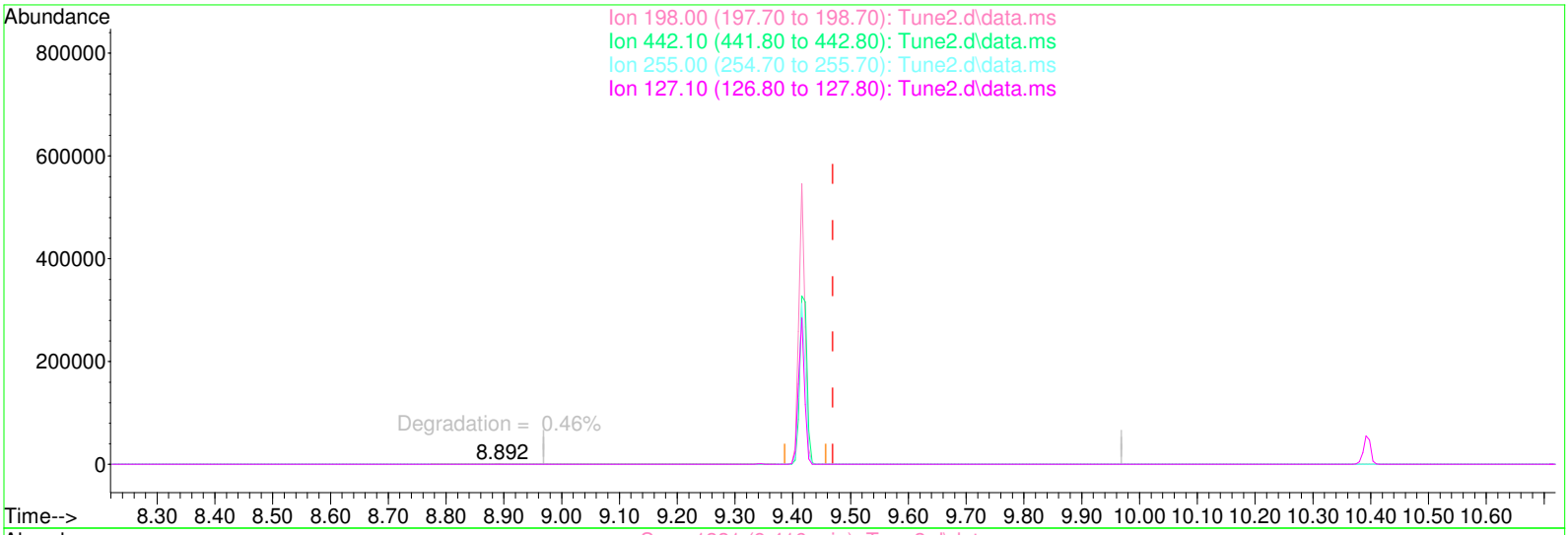
Spectrum Information: Average of 9.410 to 9.422 min.

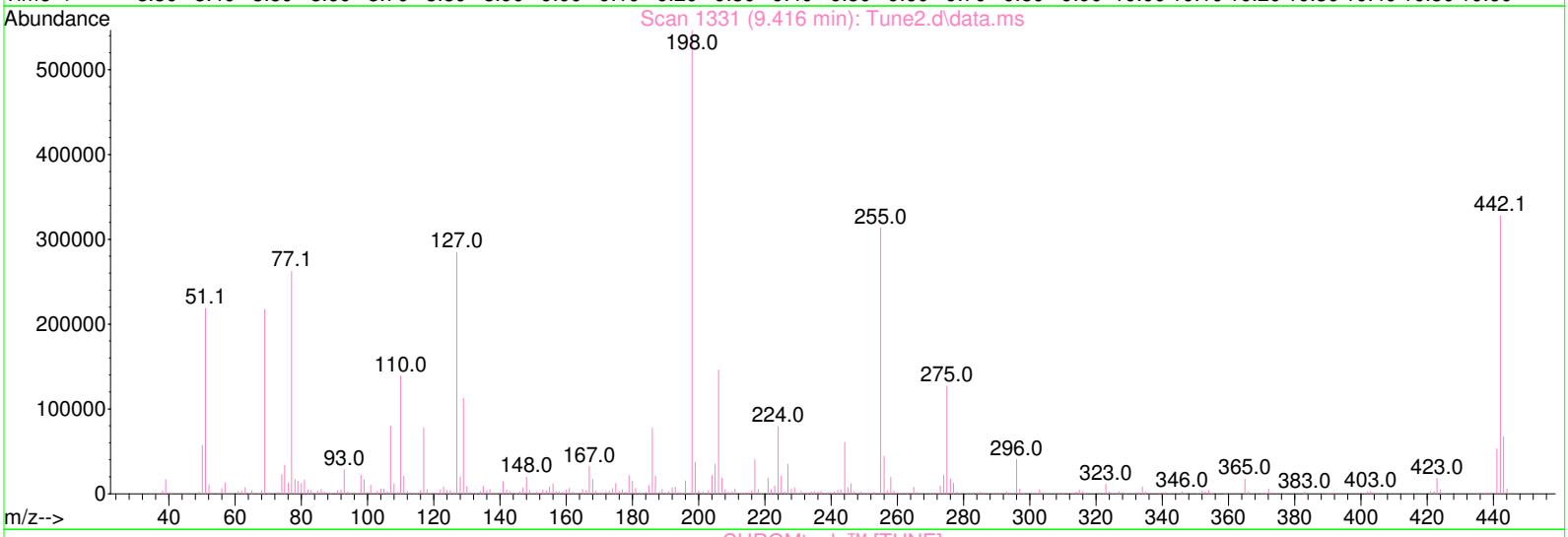
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	40.7	145499	PASS
68	69	0.00	2	1.6	2298	PASS
69	69	100	100	100.0	144251	PASS
70	69	0.00	2	0.5	683	PASS
127	198	10	80	51.9	185592	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	357440	PASS
199	198	5	9	6.6	23715	PASS
275	198	10	60	23.8	85200	PASS
365	198	1	100	3.4	12061	PASS
441	442	0.01	24	16.3	39736	PASS
442	198	50	100	68.2	243752	PASS
443	442	15	24	20.0	48747	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV124\201012ical\
Data File : Tune2.d
Acq On : 12 Oct 2020 11:04 pm
Operator : sv124:wr
Sample : TUNE
Misc : wg1422524,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 15 15:56:28 2020
Quant Method : I:\8270\SV124\201012ical\dftppSV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Aug 24 20:27:27 2020
Response via : Initial Calibration





CHROMtools™ [TUNE]

(2) DFTPP (T)

9.416min (-0.053) 149.77 Lin

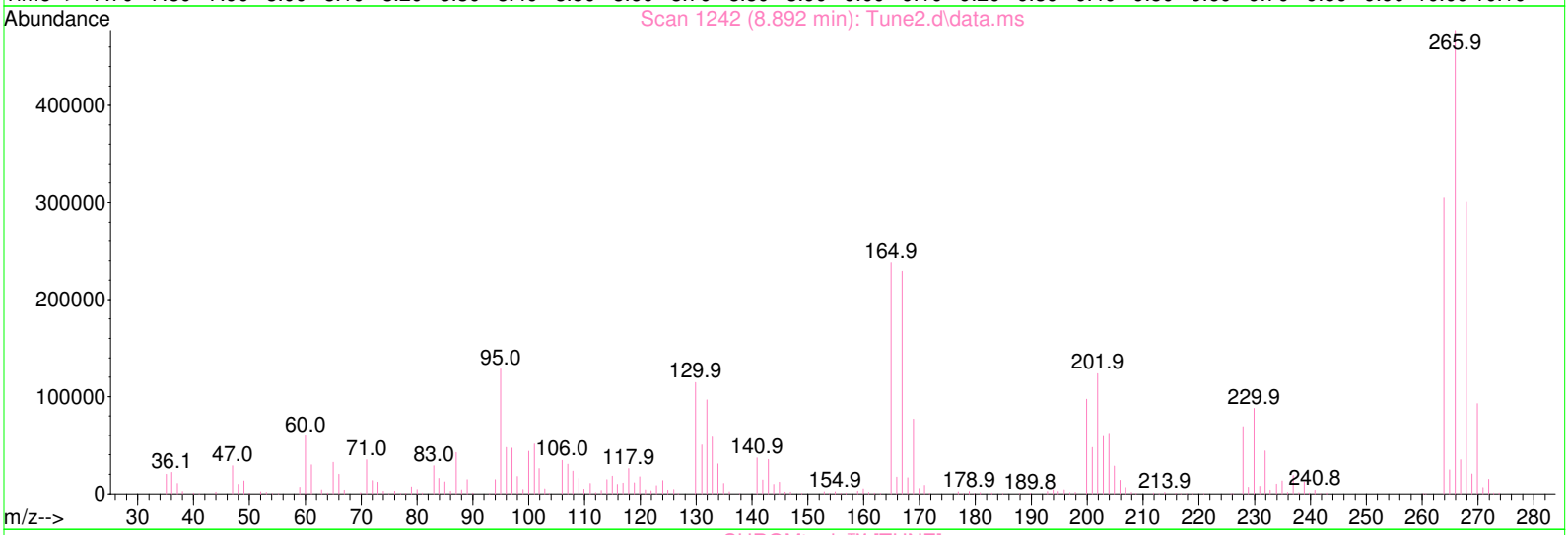
response 401850

Ion	Exp%	Act%
198.00	100.00	100.00
442.10	67.60	71.07
255.00	60.00	58.64
127.10	51.40	52.13

Data Path : I:\8270\SV124\201012ical\
Data File : Tune2.d
Acq On : 12 Oct 2020 11:04 pm
Operator : sv124:wr
Sample : TUNE
Misc : wg1422524,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 15 15:56:28 2020
Quant Method : I:\8270\SV124\201012ical\dftppSV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Aug 24 20:27:27 2020
Response via : Initial Calibration





CHROMtools™ [TUNE]

(1) Pentachlorophenol (T)

8.892min (-0.053) 167.95 Lin

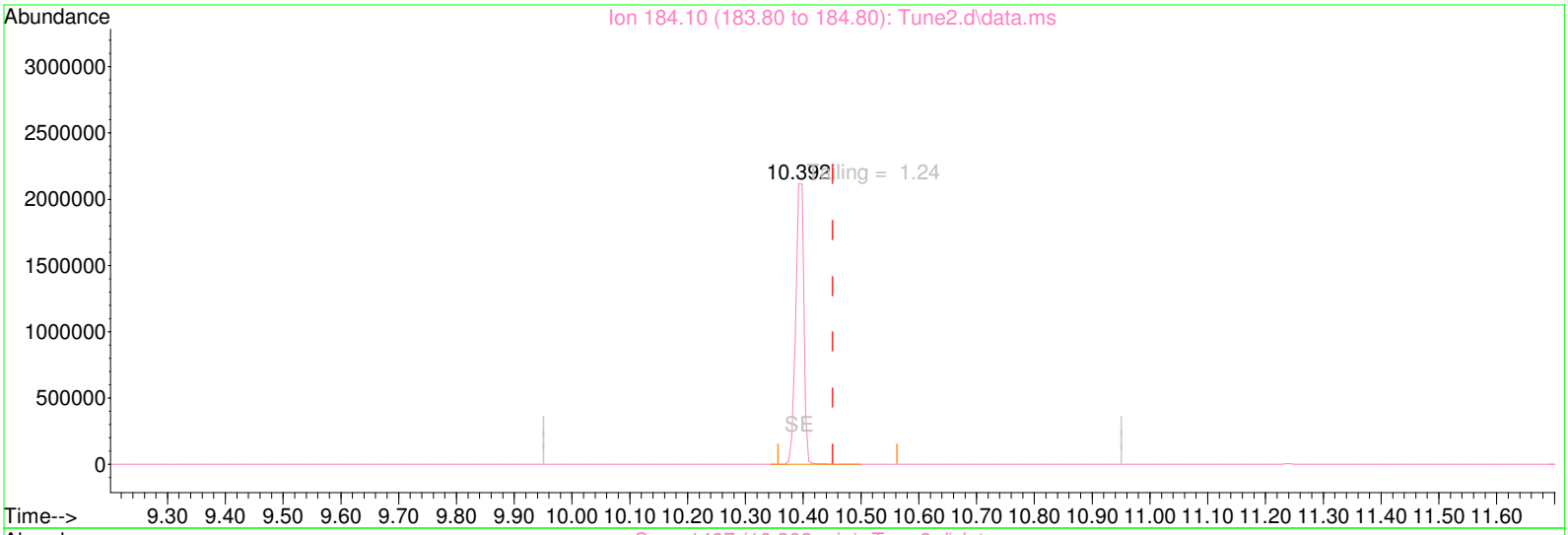
response 352745

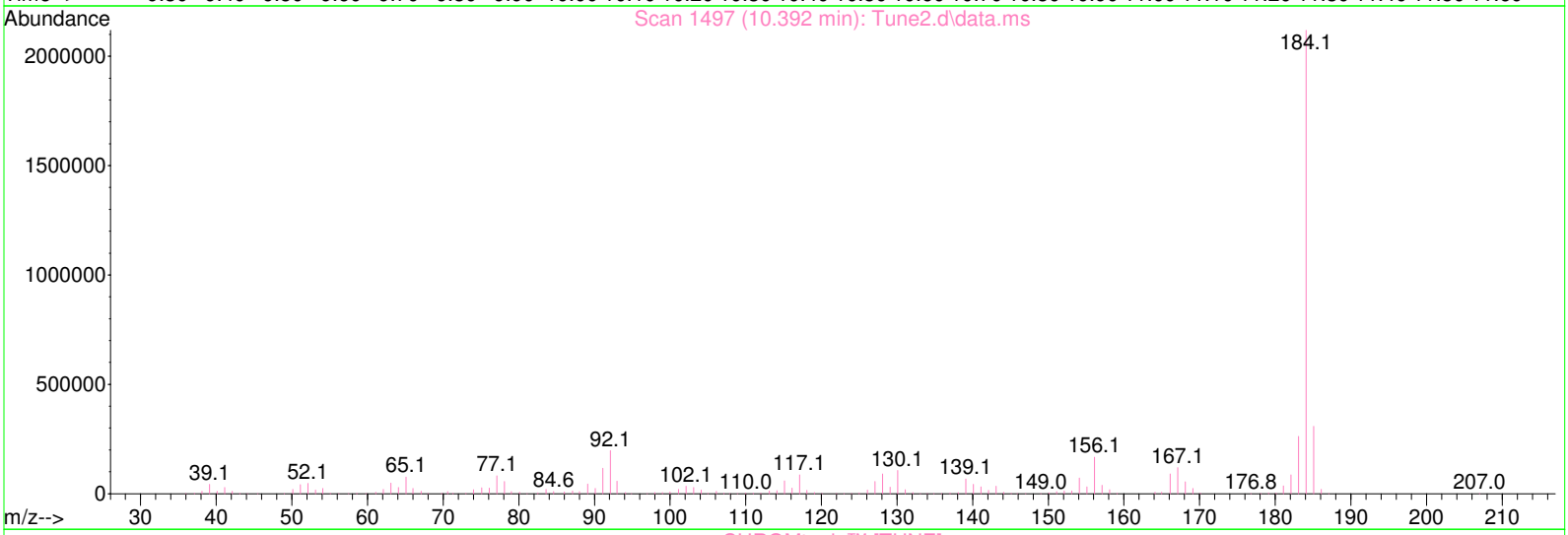
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV124\201012ical\
Data File : Tune2.d
Acq On : 12 Oct 2020 11:04 pm
Operator : sv124:wr
Sample : TUNE
Misc : wg1422524,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 15 15:56:28 2020
Quant Method : I:\8270\SV124\201012ical\dftppSV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Aug 24 20:27:27 2020
Response via : Initial Calibration





CHROMtools™ [TUNE]

(3) Benzidine (T)

10.392min (-0.059) 202.20 Lin

response 2058377

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ADPL10.d
Acq On : 12 Oct 2020 11:27 pm
Operator : sv124:wr
Sample : IL1,32,,ADPL50 #8969
Misc : wg1422524,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 13 12:58:20 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ADPL7.d
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.687	150	51399	4.000	ug/ml	0.00
Standard Area 1 = 51220			Recovery =	100.35%		
85) IS3_Acenaphthene-d10	7.628	164	72287	4.000	ug/ml	0.00
Standard Area 1 = 70580			Recovery =	102.42%		
99) IS3_Phenanthrene-d10	9.057	188	162643	4.000	ug/ml	0.00
Standard Area 1 = 157034			Recovery =	103.57%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.575	57	524939	53.816	ug/ml#	36
86) Atrazine	8.839	200	355483	52.634	ug/ml	95
100) n-Octadecane	9.033	57	931248	61.480	ug/ml#	1
101) Parathion	9.845	109	249091	42.808	ug/ml	100
102) 3,3'-Dimethylbenzidine	11.133	212	1459439	43.519	ug/ml	99

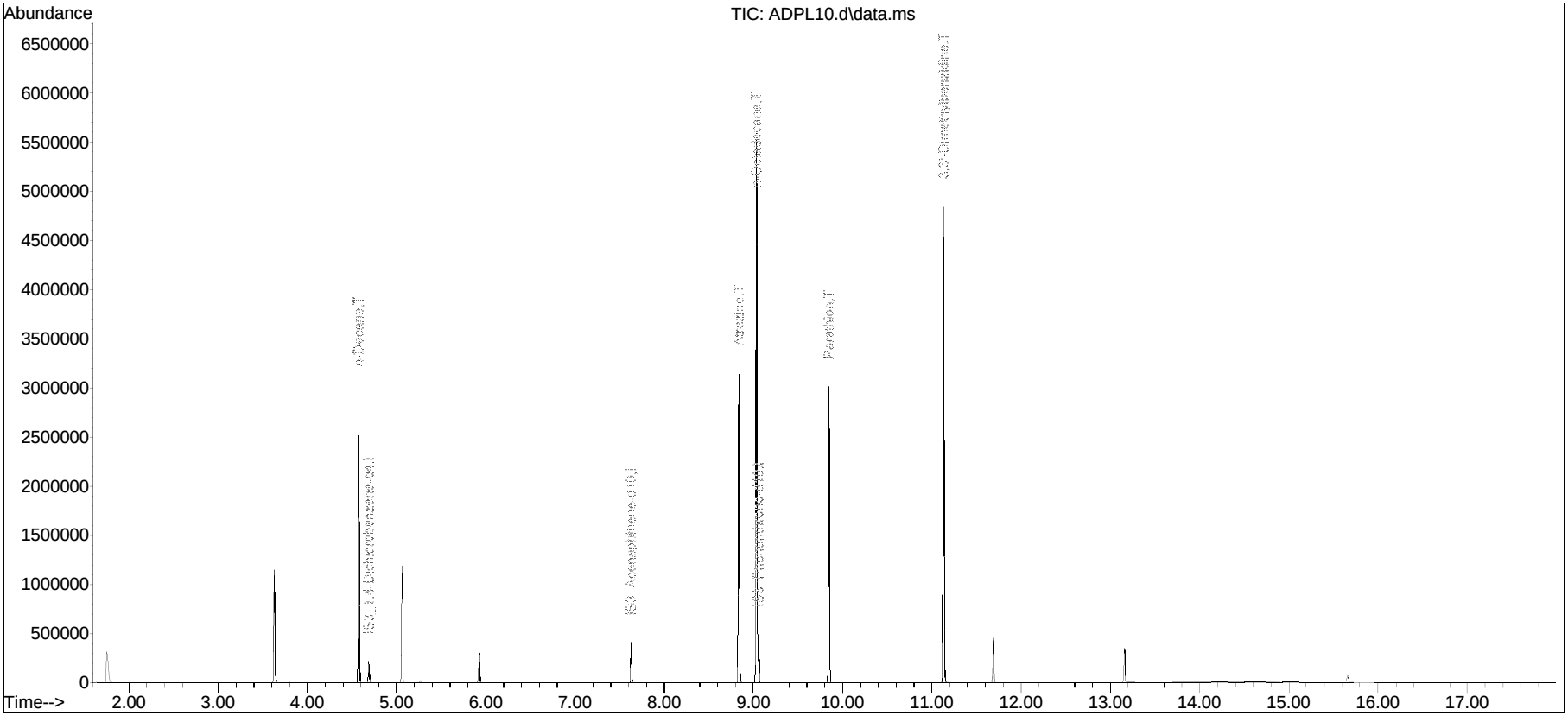
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ADPL10.d
Acq On : 12 Oct 2020 11:27 pm
Operator : sv124:wr
Sample : IL1,32,,ADPL50 #8969
Misc : wg1422524,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 13 12:58:20 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL7.d•



Manual Integration/Negative Proof Report

Data Path	: I:\8270\SV124\201012ical\	QMethod	: FS201012SV124.m
Data File	: ADPL10.d	Operator	: sv124:wr
Date Inj'd	: 10/12/2020 11:27 pm	Instrument	: SV 124
Sample	: IL1,32,,ADPL50 #8969	Quant Date	: 10/13/2020 11:13 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ADPL9.d
Acq On : 12 Oct 2020 11:51 pm
Operator : sv124:wr
Sample : IL2,32,,ADPL35 #8978
Misc : wg1422524,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 13 12:59:09 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ADPL7.d
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.687	150	50946	4.000	ug/ml	0.00
Standard Area 1 = 51220			Recovery =	99.47%		
85) IS3_Acenaphthene-d10	7.628	164	71328	4.000	ug/ml	0.00
Standard Area 1 = 70580			Recovery =	101.06%		
99) IS3_Phenanthrene-d10	9.057	188	156854	4.000	ug/ml	0.00
Standard Area 1 = 157034			Recovery =	99.89%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.575	57	360191	37.255	ug/ml#	36
86) Atrazine	8.834	200	234823	35.236	ug/ml	95
100) n-Octadecane	9.034	57	598673	40.982	ug/ml#	1
101) Parathion	9.845	109	155353	30.684	ug/ml	99
102) 3,3'-Dimethylbenzidine	11.133	212	969681	30.219	ug/ml	99

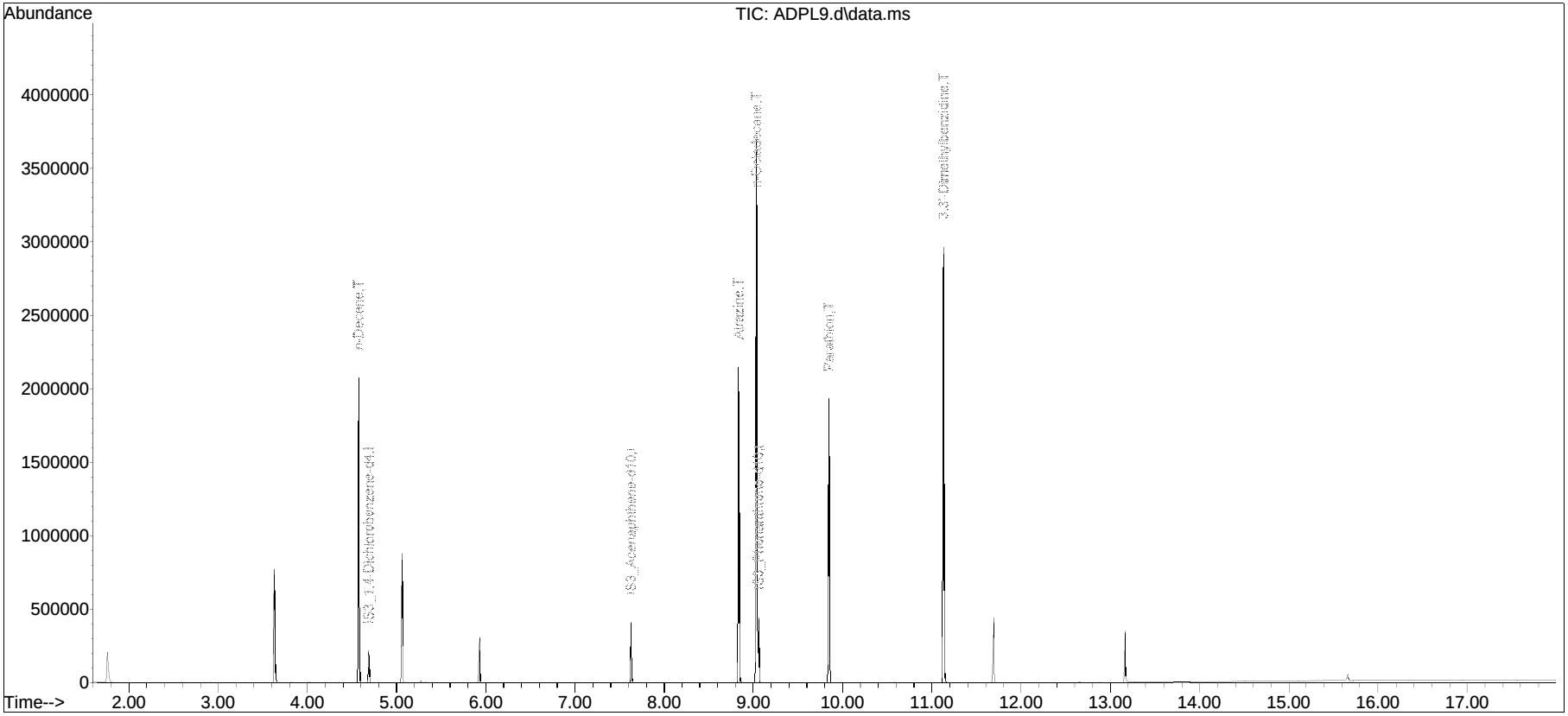
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ADPL9.d
Acq On : 12 Oct 2020 11:51 pm
Operator : sv124:wr
Sample : IL2,32,,ADPL35 #8978
Misc : wg1422524,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 13 12:59:09 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL7.d•



Manual Integration/Negative Proof Report

Data Path	: I:\8270\SV124\201012ical\	QMethod	: FS201012SV124.m
Data File	: ADPL9.d	Operator	: sv124:wr
Date Inj'd	: 10/12/2020 11:51 pm	Instrument	: SV 124
Sample	: IL2,32,,ADPL35 #8978	Quant Date	: 10/13/2020 11:14 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ADPL8.d
Acq On : 13 Oct 2020 12:14 am
Operator : sv124:wr
Sample : IL3,32,,ADPL15 #8977
Misc : wg1422524,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 13 12:59:44 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ADPL7.d
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.687	150	50477	4.000	ug/ml	0.00
Standard Area 1 = 51220			Recovery =	98.55%		
85) IS3_Acenaphthene-d10	7.628	164	69138	4.000	ug/ml	0.00
Standard Area 1 = 70580			Recovery =	97.96%		
99) IS3_Phenanthrene-d10	9.057	188	158334	4.000	ug/ml	0.00
Standard Area 1 = 157034			Recovery =	100.83%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.575	57	147497	15.397	ug/ml#	35
86) Atrazine	8.834	200	91274	14.130	ug/ml	95
100) n-Octadecane	9.034	57	237701	16.120	ug/ml#	1
101) Parathion	9.845	109	49250	11.862	ug/ml	97
102) 3,3'-Dimethylbenzidine	11.128	212	353460	11.399	ug/ml	99

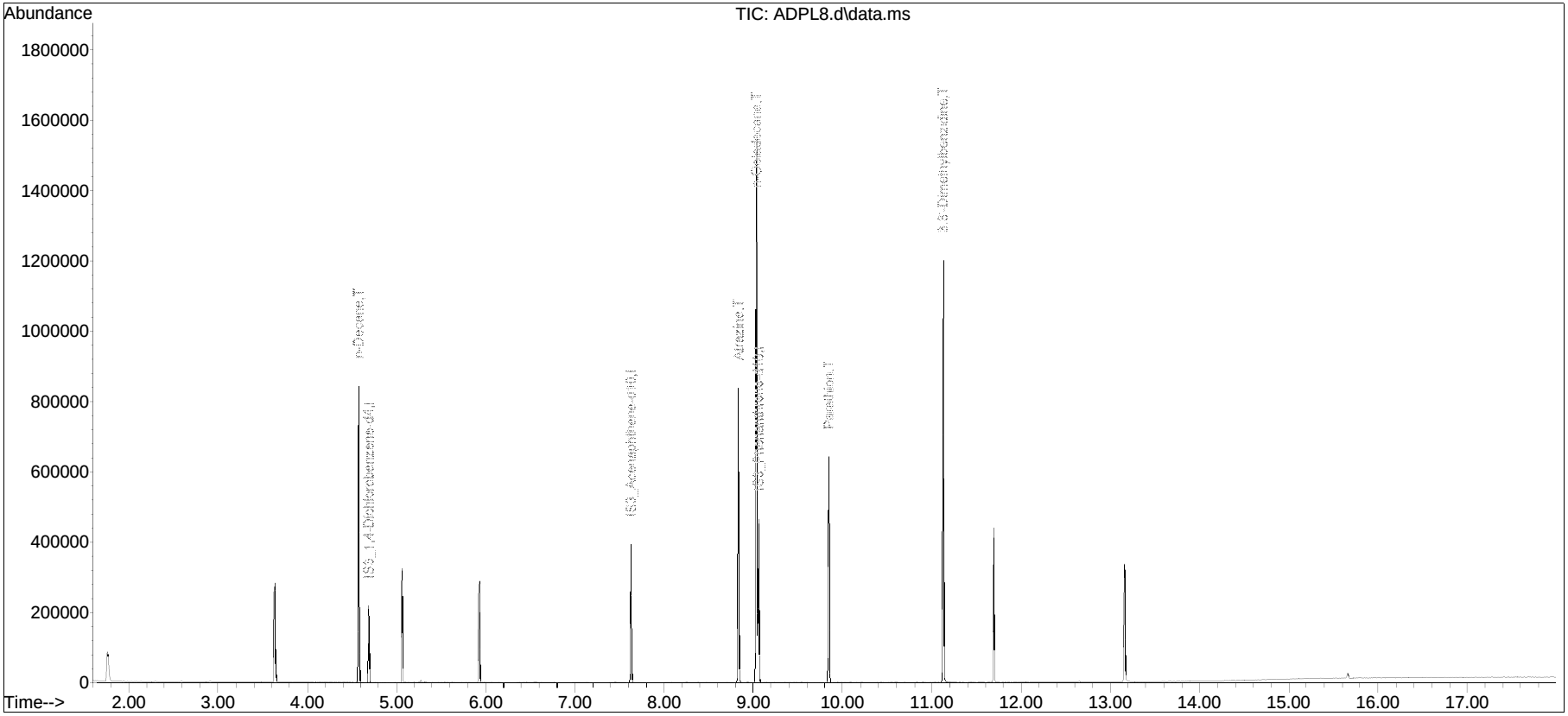
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ADPL8.d
Acq On : 13 Oct 2020 12:14 am
Operator : sv124:wr
Sample : IL3,32,,ADPL15 #8977
Misc : wg1422524,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 13 12:59:44 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL7.d•



Manual Integration/Negative Proof Report

Data Path	: I:\8270\SV124\201012ical\	QMethod	: FS201012SV124.m
Data File	: ADPL8.d	Operator	: sv124:wr
Date Inj'd	: 10/13/2020 12:14 am	Instrument	: SV 124
Sample	: IL3,32,,ADPL15 #8977	Quant Date	: 10/13/2020 11:14 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ADPL7.d
Acq On : 13 Oct 2020 12:37 am
Operator : sv124:wr
Sample : IL4,32,,ADPL10 #8976
Misc : wg1422524,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 13 13:00:13 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ADPL7.d
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.687	150	51220	4.000	ug/ml	0.00
Standard Area 1 = 51220			Recovery =	100.00%		
85) IS3_Acenaphthene-d10	7.628	164	70580	4.000	ug/ml	0.00
Standard Area 1 = 70580			Recovery =	100.00%		
99) IS3_Phenanthrene-d10	9.057	188	157034	4.000	ug/ml	0.00
Standard Area 1 = 157034			Recovery =	100.00%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.575	57	98633	10.147	ug/ml#	35
86) Atrazine	8.833	200	58262	8.835	ug/ml	95
100) n-Octadecane	9.033	57	156012	10.668	ug/ml#	1
101) Parathion	9.845	109	29380	7.696	ug/ml	97
102) 3,3'-Dimethylbenzidine	11.127	212	215051	7.287	ug/ml	100

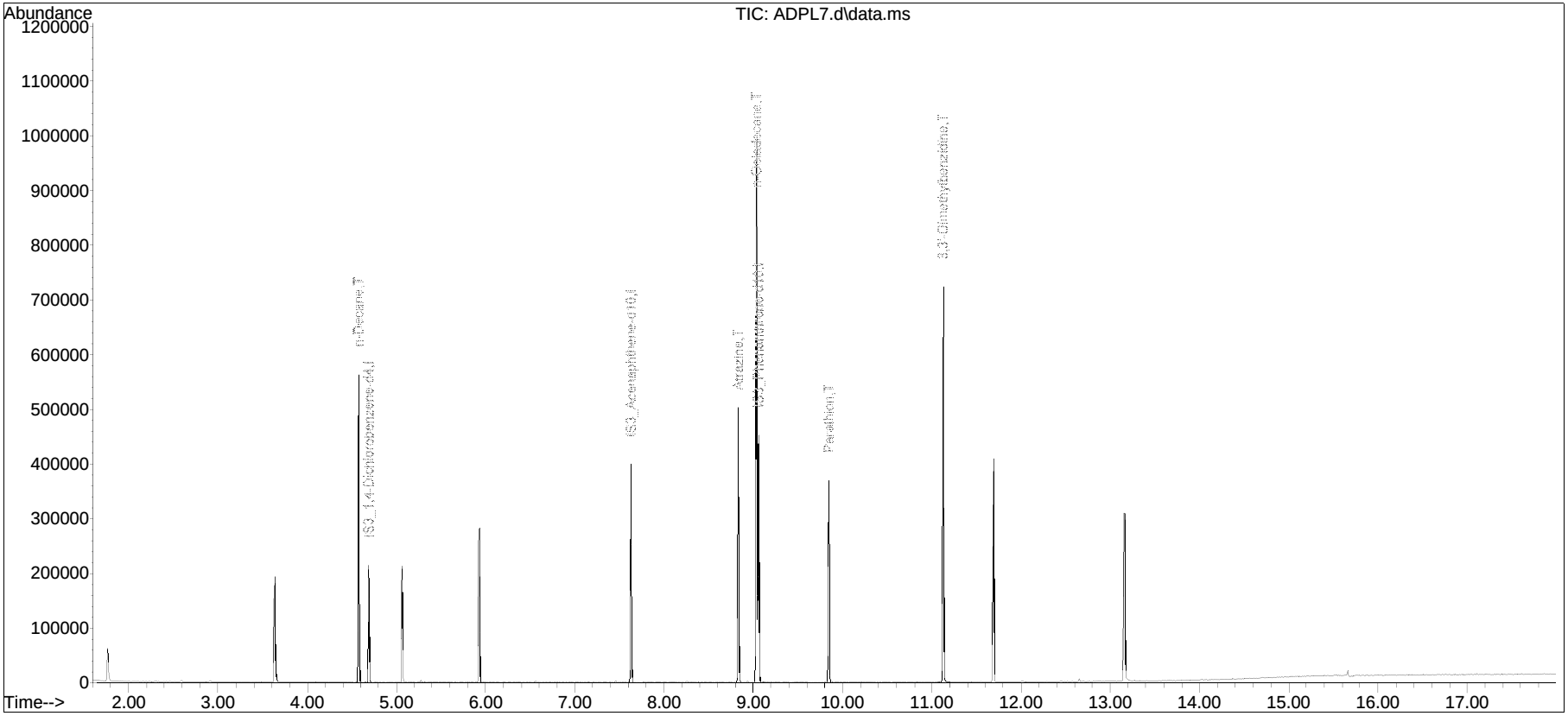
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ADPL7.d
Acq On : 13 Oct 2020 12:37 am
Operator : sv124:wr
Sample : IL4,32,,ADPL10 #8976
Misc : wg1422524,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 13 13:00:13 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL7.d•



Manual Integration/Negative Proof Report

Data Path	: I:\8270\SV124\201012ical\	QMethod	: FS201012SV124.m
Data File	: ADPL7.d	Operator	: sv124:wr
Date Inj'd	: 10/13/2020 12:37 am	Instrument	: SV 124
Sample	: IL4,32,,ADPL10 #8976	Quant Date	: 10/13/2020 11:14 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ADPL6.d
Acq On : 13 Oct 2020 1:00 am
Operator : sv124:wr
Sample : IL5,32,,ADPL5 #8975
Misc : wg1422524,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Oct 13 13:14:18 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 13:09:16 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ADPL7.d
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
32) IS3_1,4-Dichlorobenzen...	4.687	150	50180	4.000 ug/ml	0.00
Standard Area 1 = 51220			Recovery = 97.97%		
85) IS3_Acenaphthene-d10	7.628	164	69574	4.000 ug/ml	0.00
Standard Area 1 = 70580			Recovery = 98.57%		
99) IS3_Phenanthrene-d10	9.057	188	152462	4.000 ug/ml	0.00
Standard Area 1 = 157034			Recovery = 97.09%		
System Monitoring Compounds					
Target Compounds					Qvalue
33) n-Decane	4.575	57	47612	4.938 ug/ml#	35
86) Atrazine	8.828	200	24770	4.884 ug/ml	96
100) n-Octadecane	9.033	57	69412	4.840 ug/ml#	1
101) Parathion	9.845	109	11350	4.504 ug/ml	95
102) 3,3'-Dimethylbenzidine	11.127	212	84740	4.483 ug/ml	99

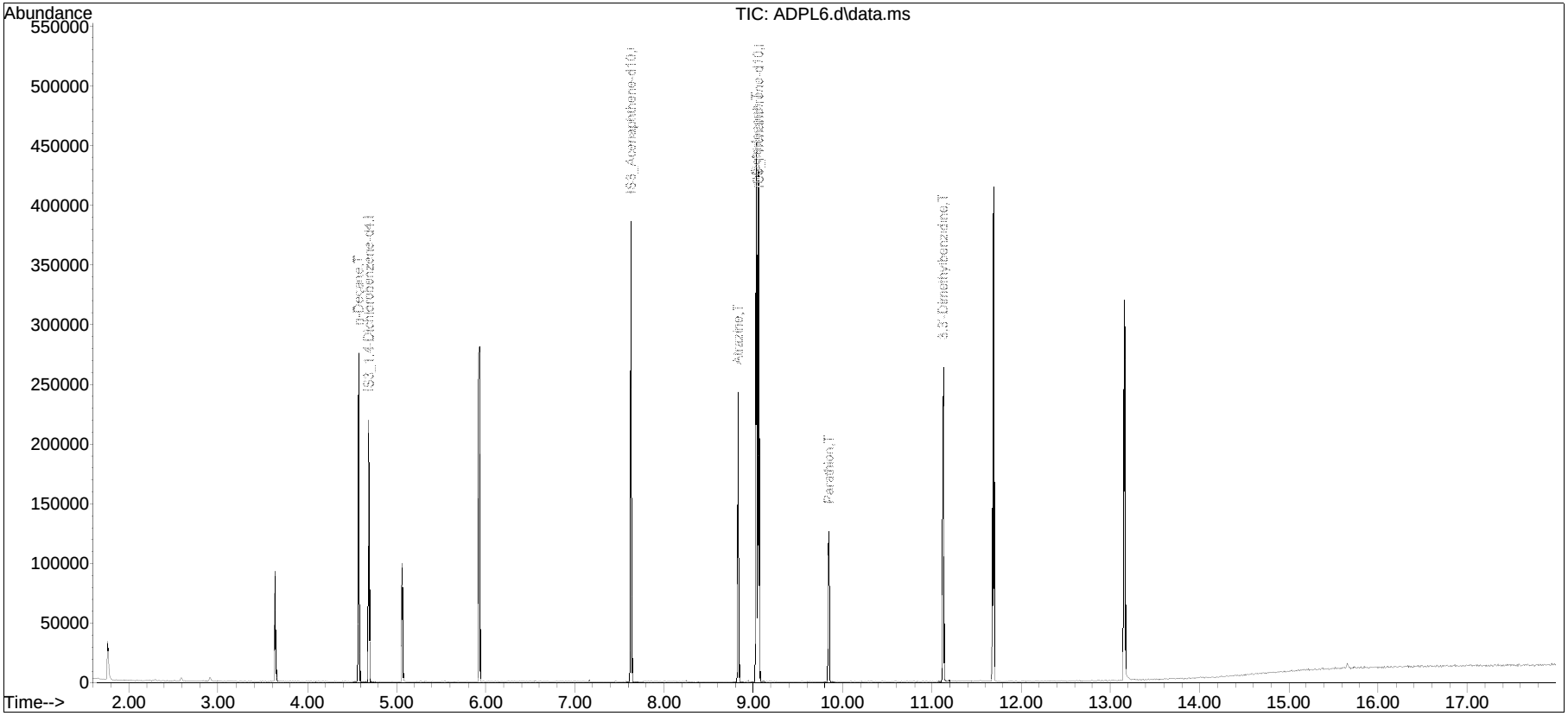
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ADPL6.d
Acq On : 13 Oct 2020 1:00 am
Operator : sv124:wr
Sample : IL5,32,,ADPL5 #8975
Misc : wg1422524,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Oct 13 13:14:18 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 13:09:16 2020
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL7.d•



Manual Integration/Negative Proof Report

Data Path	: I:\8270\SV124\201012ical\	QMethod	: FS201012SV124.m
Data File	: ADPL6.d	Operator	: sv124:wr
Date Inj'd	: 10/13/2020 1:00 am	Instrument	: SV 124
Sample	: IL5,32,,ADPL5 #8975	Quant Date	: 10/13/2020 1:14 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ADPL5.d
Acq On : 13 Oct 2020 1:23 am
Operator : sv124:wr
Sample : IL6,32,,ADPL3 #8974
Misc : wg1422524,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Oct 13 13:01:23 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ADPL7.d
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.687	150	50276	4.000	ug/ml	0.00
Standard Area 1 = 51220			Recovery = 98.16%			
85) IS3_Acenaphthene-d10	7.628	164	66919	4.000	ug/ml	0.00
Standard Area 1 = 70580			Recovery = 94.81%			
99) IS3_Phenanthrene-d10	9.057	188	147244	4.000	ug/ml	0.00
Standard Area 1 = 157034			Recovery = 93.77%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.575	57	28229	2.959	ug/ml#	37
86) Atrazine	8.828	200	13289	2.125	ug/ml	99
100) n-Octadecane	9.033	57	37964	2.768	ug/ml#	1
101) Parathion	9.845	109	6030	2.308	ug/ml	92
102) 3,3'-Dimethylbenzidine	11.127	212	44968	2.217	ug/ml	99

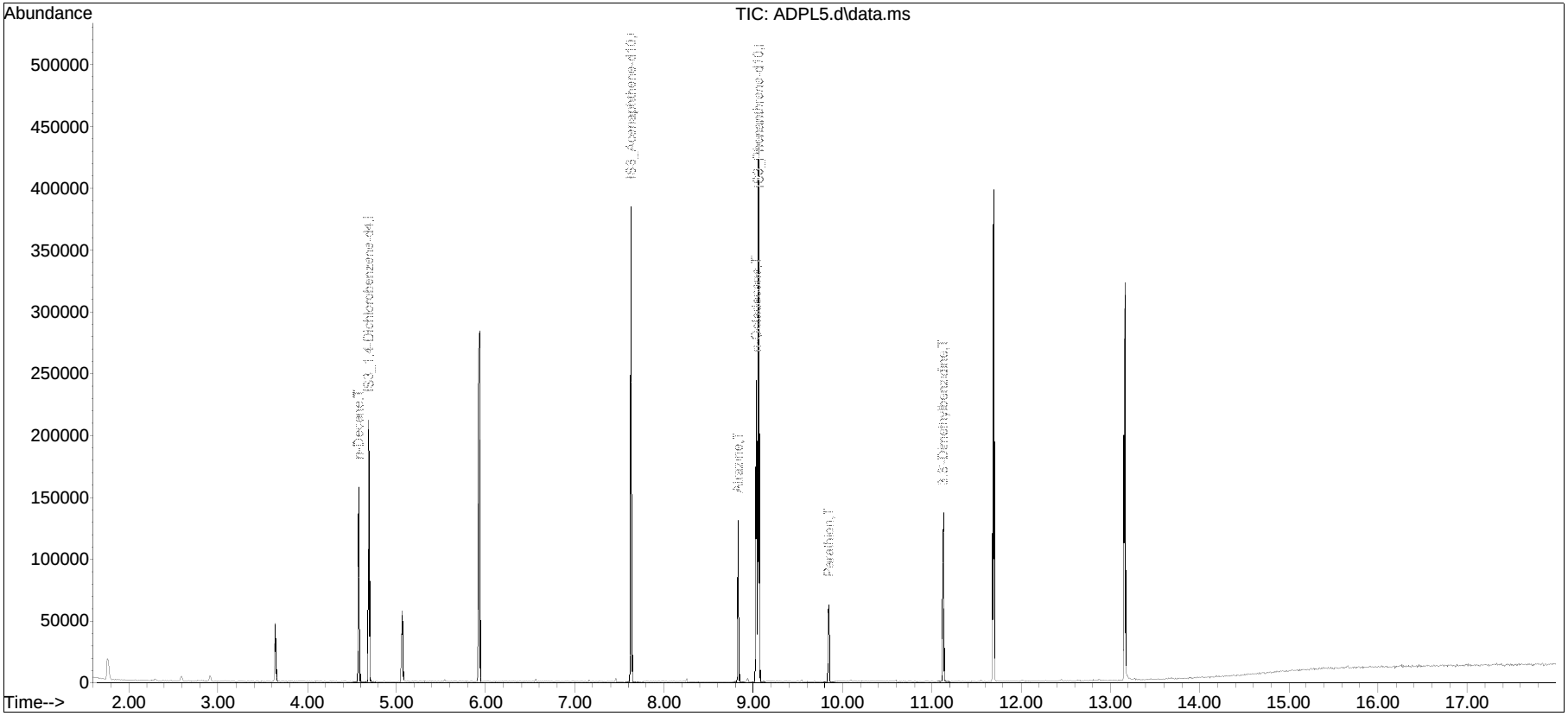
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ADPL5.d
Acq On : 13 Oct 2020 1:23 am
Operator : sv124:wr
Sample : IL6,32,,ADPL3 #8974
Misc : wg1422524,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Oct 13 13:01:23 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL7.d•



Manual Integration/Negative Proof Report

Data Path	: I:\8270\SV124\201012ical\	QMethod	: FS201012SV124.m
Data File	: ADPL5.d	Operator	: sv124:wr
Date Inj'd	: 10/13/2020 1:23 am	Instrument	: SV 124
Sample	: IL6,32,,ADPL3 #8974	Quant Date	: 10/13/2020 11:13 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ADPL4.d
Acq On : 13 Oct 2020 1:46 am
Operator : sv124:wr
Sample : IL7,32,,ADPL2 #8973
Misc : wg1422524,,
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Oct 13 13:01:52 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ADPL7.d
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.687	150	49803	4.000	ug/ml	0.00
Standard Area 1 = 51220			Recovery = 97.23%			
85) IS3_Acenaphthene-d10	7.628	164	66594	4.000	ug/ml	0.00
Standard Area 1 = 70580			Recovery = 94.35%			
99) IS3_Phenanthrene-d10	9.057	188	146154	4.000	ug/ml	0.00
Standard Area 1 = 157034			Recovery = 93.07%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.575	57	18817	1.991	ug/ml#	36
86) Atrazine	8.828	200	8584	1.380	ug/ml	97
100) n-Octadecane	9.034	57	23269	1.710	ug/ml#	1
101) Parathion	9.845	109	3967	1.766	ug/ml#	93
102) 3,3'-Dimethylbenzidine	11.128	212	26721	1.633	ug/ml	99

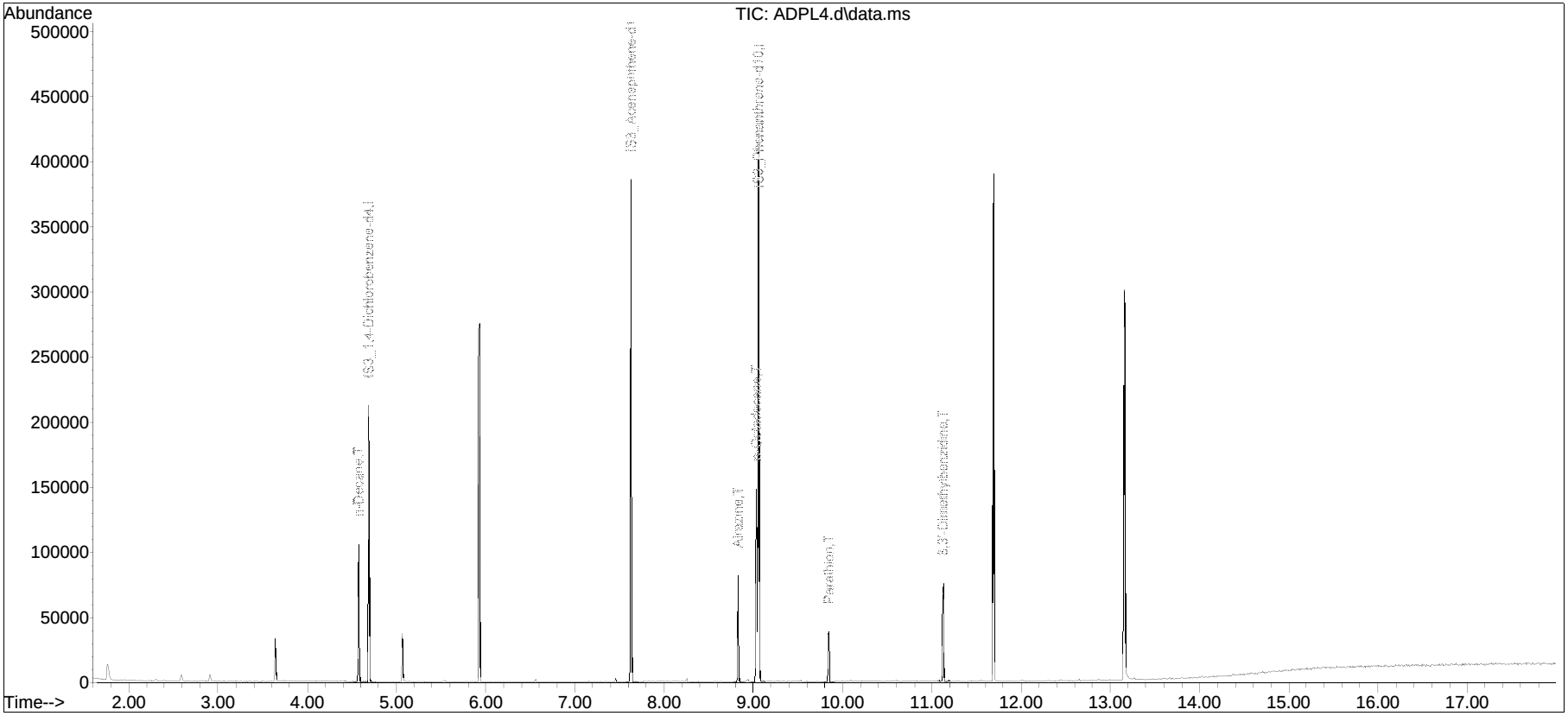
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ADPL4.d
Acq On : 13 Oct 2020 1:46 am
Operator : sv124:wr
Sample : IL7,32,,ADPL2 #8973
Misc : wg1422524,,
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Oct 13 13:01:52 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL7.d•



Manual Integration/Negative Proof Report

Data Path	: I:\8270\SV124\201012ical\	QMethod	: FS201012SV124.m
Data File	: ADPL4.d	Operator	: sv124:wr
Date Inj'd	: 10/13/2020 1:46 am	Instrument	: SV 124
Sample	: IL7,32,,ADPL2 #8973	Quant Date	: 10/13/2020 11:13 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ADPL3.d
Acq On : 13 Oct 2020 2:09 am
Operator : sv124:wr
Sample : IL8,32,,ADPL1 #8972
Misc : wg1422524,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Oct 14 11:42:45 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 14 11:14:39 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ADPL7.d
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
32) IS3_1,4-Dichlorobenzen...	4.687	150	50325	4.000 ug/ml	# 0.00
Standard Area 1 = 51220			Recovery = 98.25%		
85) IS3_Acenaphthene-d10	7.628	164	68784	4.000 ug/ml	0.00
Standard Area 1 = 70580			Recovery = 97.46%		
99) IS3_Phenanthrene-d10	9.057	188	148401	4.000 ug/ml	0.00
Standard Area 1 = 157034			Recovery = 94.50%		
System Monitoring Compounds					
Target Compounds					Qvalue
33) n-Decane	4.575	57	9303	0.962 ug/ml#	37
86) Atrazine	8.828	200	4190	0.961 ug/ml	94
100) n-Octadecane	9.034	57	10818	0.775 ug/ml#	1
101) Parathion	9.839	109	1766	1.175 ug/ml#	87
102) 3,3'-Dimethylbenzidine	11.127	212	12719	1.214 ug/ml	98

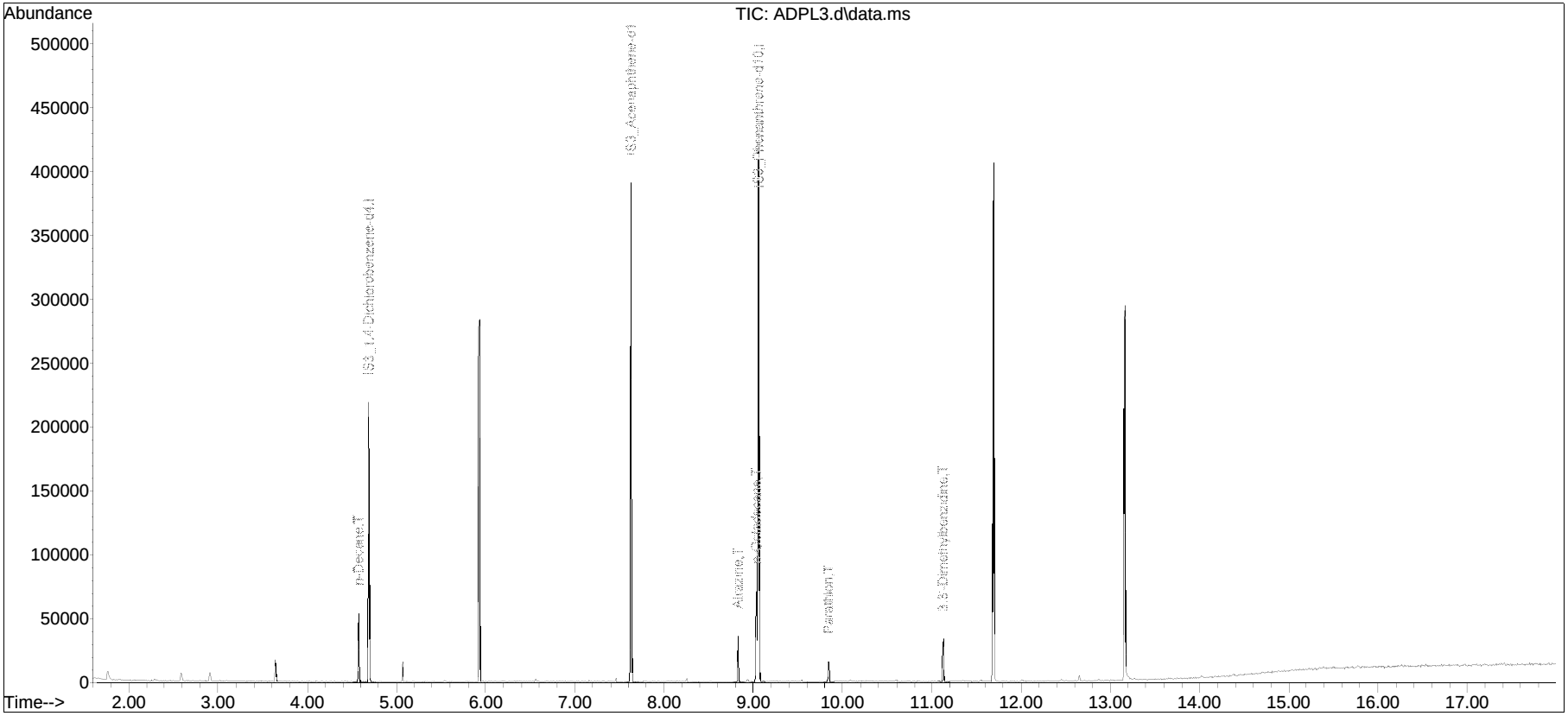
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ADPL3.d
Acq On : 13 Oct 2020 2:09 am
Operator : sv124:wr
Sample : IL8,32,,ADPL1 #8972
Misc : wg1422524,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Oct 14 11:42:45 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 14 11:14:39 2020
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL7.d•



Manual Integration/Negative Proof Report

Data Path	: I:\8270\SV124\201012ical\	QMethod	: FS201012SV124.m
Data File	: ADPL3.d	Operator	: sv124:wr
Date Inj'd	: 10/13/2020 2:09 am	Instrument	: SV 124
Sample	: IL8,32,,ADPL1 #8972	Quant Date	: 10/14/2020 11:42 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ADPL2.d
Acq On : 13 Oct 2020 2:32 am
Operator : sv124:wr
Sample : IL9,32,,ADPL0.4 #8971
Misc : wg1422524,,
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Oct 14 11:41:59 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 14 11:14:39 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ADPL7.d
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.687	150	48443	4.000	ug/ml	0.00
Standard Area 1 = 51220			Recovery =	94.58%		
85) IS3_Acenaphthene-d10	7.628	164	65366	4.000	ug/ml	0.00
Standard Area 1 = 70580			Recovery =	92.61%		
99) IS3_Phenanthrene-d10	9.057	188	134433	4.000	ug/ml	0.00
Standard Area 1 = 157034			Recovery =	85.61%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.575	57	3602	0.387	ug/ml#	36
86) Atrazine	8.827	200	1385	0.413	ug/ml#	77
100) n-Octadecane	9.033	57	3996	0.316	ug/ml#	1
101) Parathion	9.845	109	734	0.811	ug/ml#	78
102) 3,3'-Dimethylbenzidine	11.127	212	4461	0.840	ug/ml	97

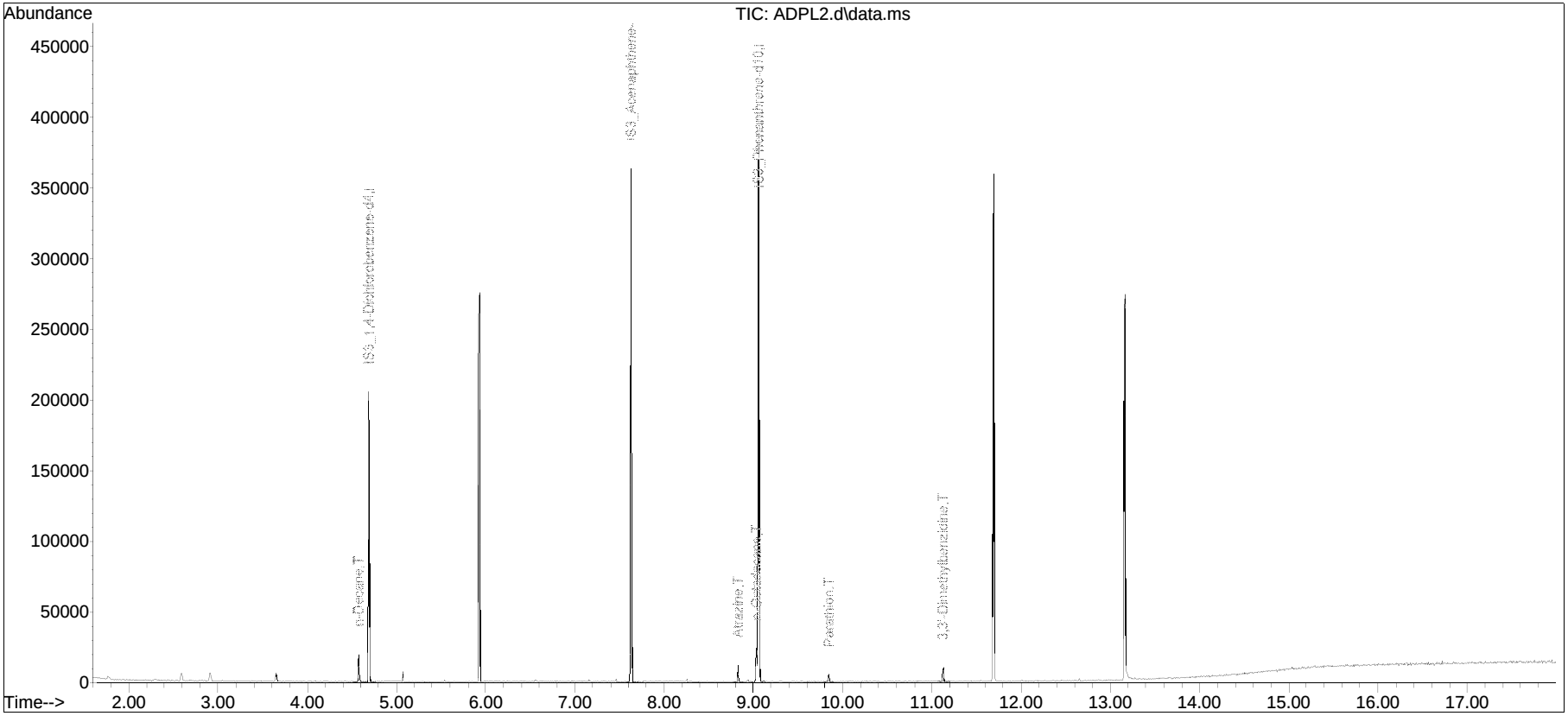
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ADPL2.d
Acq On : 13 Oct 2020 2:32 am
Operator : sv124:wr
Sample : IL9,32,,ADPL0.4 #8971
Misc : wg1422524,,
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Oct 14 11:41:59 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 14 11:14:39 2020
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL7.d•



Manual Integration/Negative Proof Report

Data Path	: I:\8270\SV124\201012ical\	QMethod	: FS201012SV124.m
Data File	: ADPL2.d	Operator	: sv124:wr
Date Inj'd	: 10/13/2020 2:32 am	Instrument	: SV 124
Sample	: IL9,32,,ADPL0.4 #8971	Quant Date	: 10/14/2020 11:41 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ADPL1.d
Acq On : 13 Oct 2020 2:56 am
Operator : sv124:wr
Sample : IL10,32,,ADPL0.2 #8970
Misc : wg1422524,,
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Oct 13 13:03:30 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ADPL7.d
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.687	150	48914	4.000	ug/ml	# 0.00
Standard Area 1 = 51220			Recovery = 95.50%			
85) IS3_Acenaphthene-d10	7.628	164	64489	4.000	ug/ml	0.00
Standard Area 1 = 70580			Recovery = 91.37%			
99) IS3_Phenanthrene-d10	9.057	188	135560	4.000	ug/ml	0.00
Standard Area 1 = 157034			Recovery = 86.33%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.575	57	1871	0.202	ug/ml	# 33
86) Atrazine	8.828	200	675	0.112	ug/ml	# 33
100) n-Octadecane	9.034	57	1931	0.153	ug/ml	# 1
101) Parathion	9.845	109	294M2	0.769	ug/ml	
102) 3,3'-Dimethylbenzidine	11.127	212	2325	0.843	ug/ml	# 62

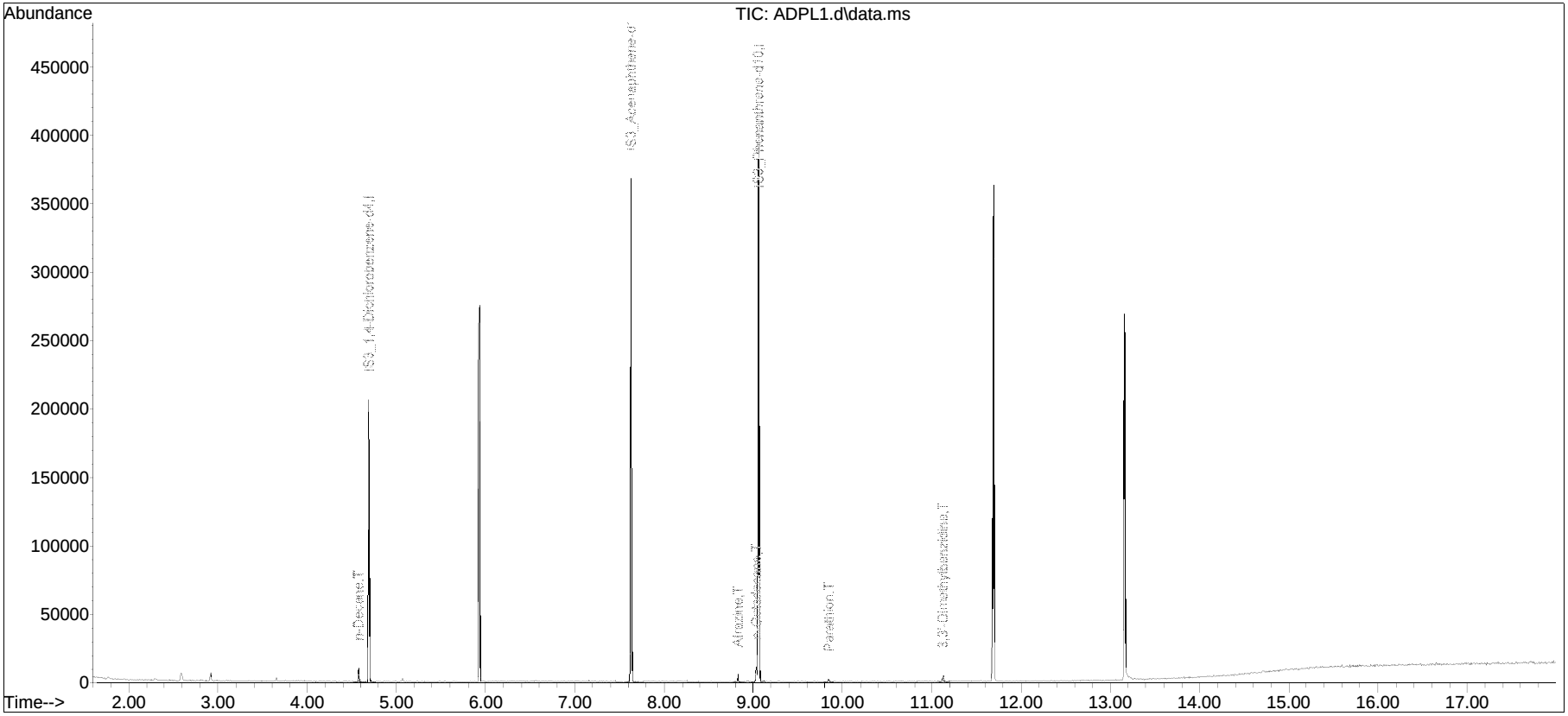
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ADPL1.d
Acq On : 13 Oct 2020 2:56 am
Operator : sv124:wr
Sample : IL10,32,,ADPL0.2 #8970
Misc : wg1422524,,
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Oct 13 13:03:30 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 11:11:11 2020
Response via : Initial Calibration

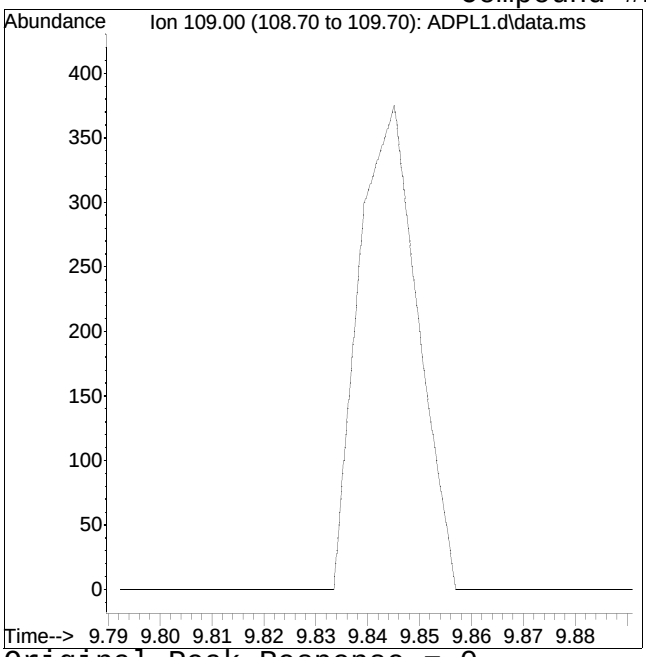
Sub List : ADPical_REV2 - ADP sublistal\ADPL7.d•

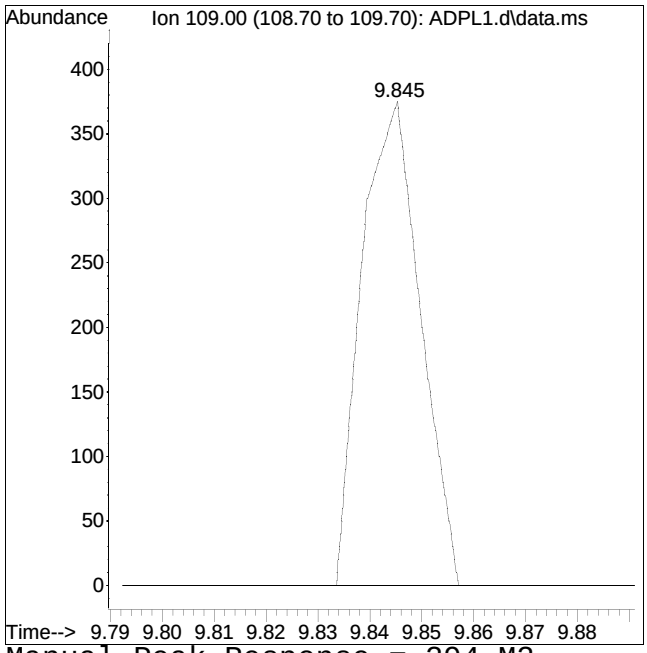


Manual Integration/Negative Proof Report

Data Path : I:\8270\SV124\201012ical\ QMethod : FS201012SV124.m
Data File : ADPL1.d Operator : sv124:wr
Date Inj'd : 10/13/2020 2:56 am Instrument : SV 124
Sample : IL10,32,,ADPL0.2 #8970 Quant Date : 10/13/2020 11:13 am

Compound #101: Parathion





Original Peak Response = 0 Manual Peak Response = 294 M2
M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV124\201012ical\
Data File : ADPICV.d
Acq On : 13 Oct 2020 3:19 am
Operator : sv124:wr
Sample : CQICV3,32,,ADPICV #8981
Misc : wg1422524,,
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Oct 13 14:26:45 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 13:09:16 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	95	0.00
33	T	n-Decane		0.769	0.733	4.7	92	0.00
85	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	92	0.00
86	T	Atrazine	*	5.000	4.520	9.6	85	0.00
99	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	96	0.00
100	T	n-Octadecane		0.376	0.337	10.4	89	0.00
101	T	Parathion	*	5.000	3.957	20.9#	83	0.00
102	T	3,3'-Dimethylbenzidine	*	5.000	3.873	22.5#	81	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ADPICV.d
Acq On : 13 Oct 2020 3:19 am
Operator : sv124:wr
Sample : CQICV3,32,,ADPICV #8981
Misc : wg1422524,,
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Oct 13 14:26:45 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 13:09:16 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ADPL7.d
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.687	150	47739	4.000	ug/ml	# 0.00
Standard Area 1 = 51220			Recovery = 93.20%			
85) IS3_Acenaphthene-d10	7.628	164	64232	4.000	ug/ml	0.00
Standard Area 1 = 70580			Recovery = 91.01%			
99) IS3_Phenanthrene-d10	9.057	188	146934	4.000	ug/ml	0.00
Standard Area 1 = 157034			Recovery = 93.57%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.575	57	43726	4.767	ug/ml	# 35
86) Atrazine	8.828	200	21059	4.520	ug/ml	96
100) n-Octadecane	9.034	57	61870	4.477	ug/ml	# 1
101) Parathion	9.845	109	9365	3.957	ug/ml	# 93
102) 3,3'-Dimethylbenzidine	11.128	212	68544	3.873	ug/ml	99

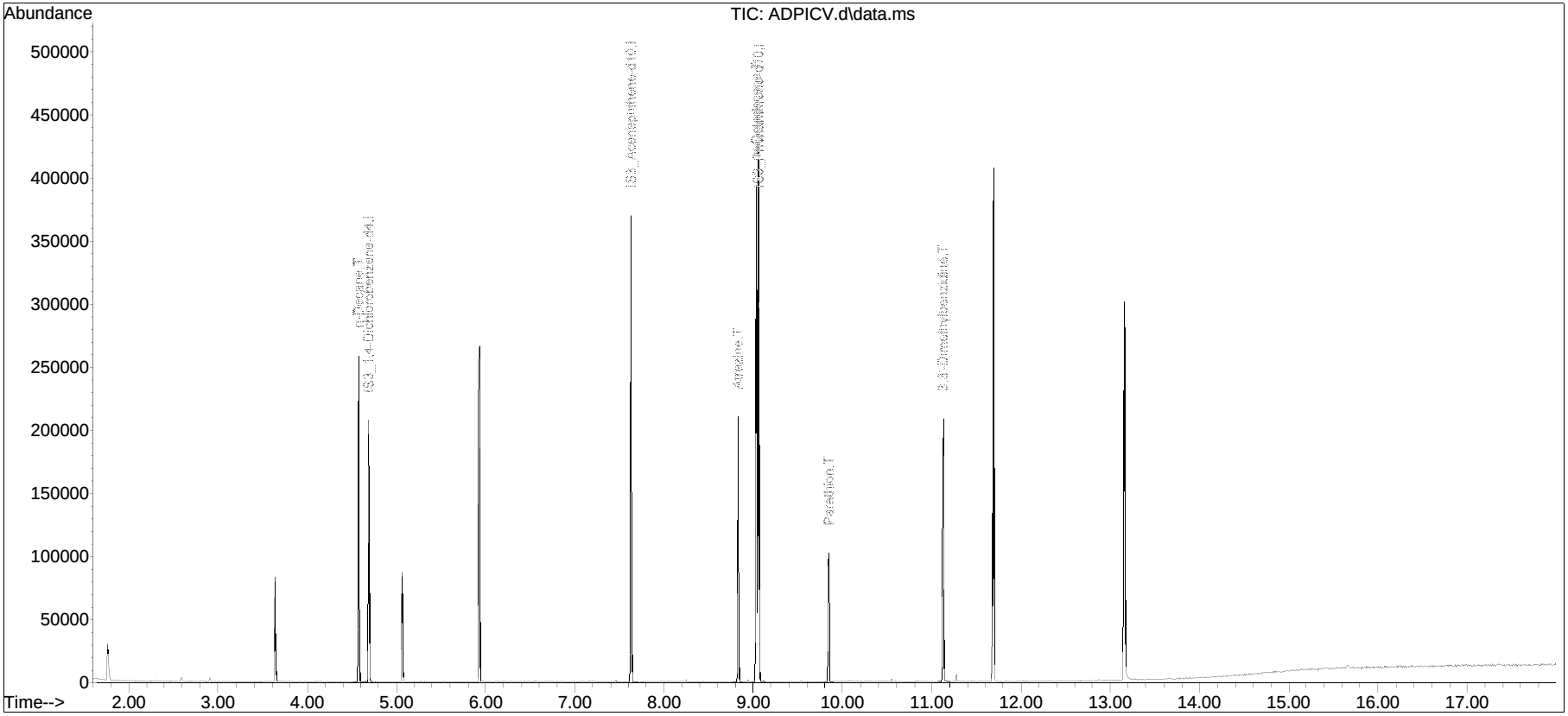
(#) = qualifier out of range (m) = manual integration (+) = signals summed

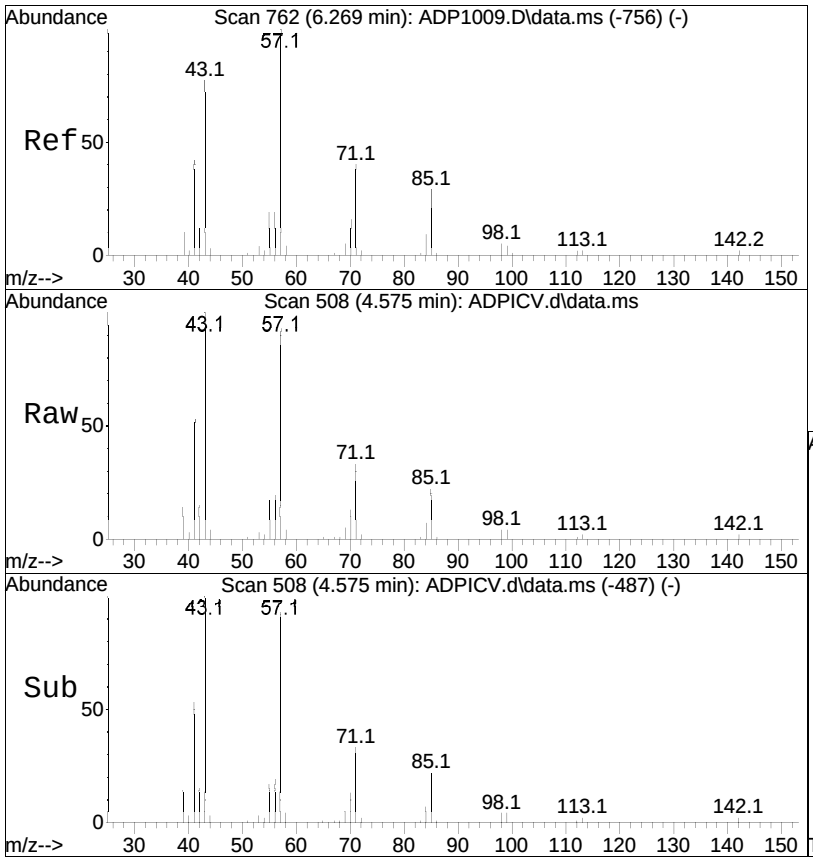
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ADPICV.d
Acq On : 13 Oct 2020 3:19 am
Operator : sv124:wr
Sample : CQICV3,32,,ADPICV #8981
Misc : wg1422524,,
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Oct 13 14:26:45 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 13 13:09:16 2020
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL7.d•

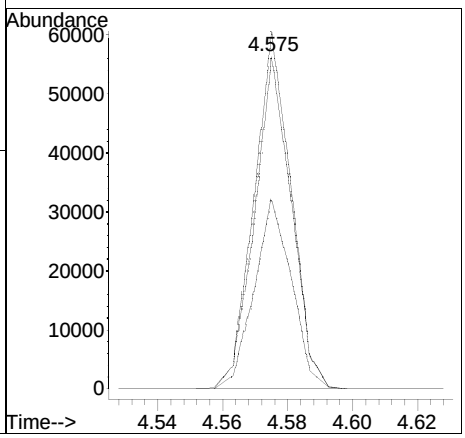


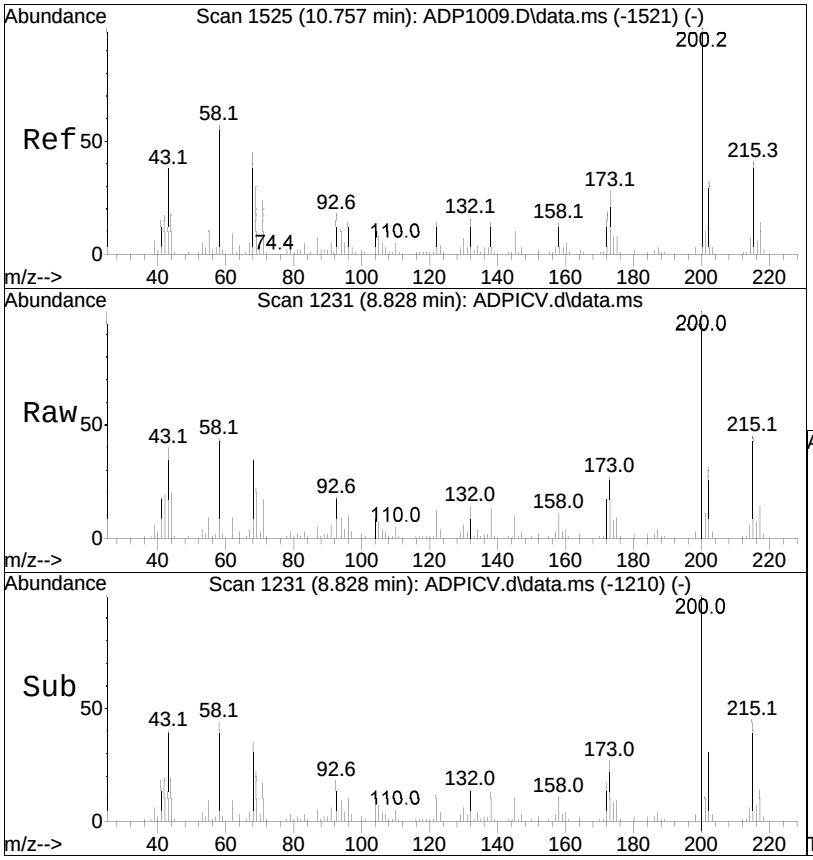


#33
n-Decane
Concen: 4.77 ug/ml
RT: 4.575 min Scan# 508
Delta R.T. 0.000 min
Lab File: ADPICV.d
Acq: 13 Oct 2020 3:19 am

Tgt Ion: 57 Resp: 43726

Ion	Ratio	Lower	Upper
57	100		
43	108.4	0.2	0.2#
41	58.2	0.2	0.2#

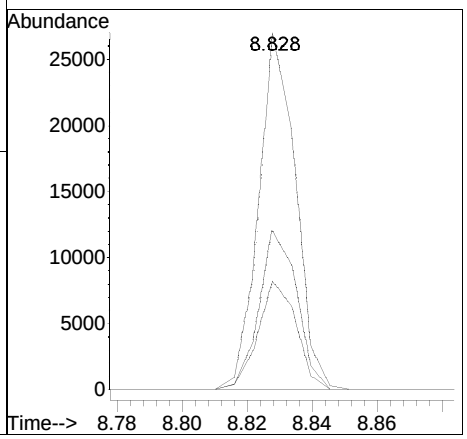


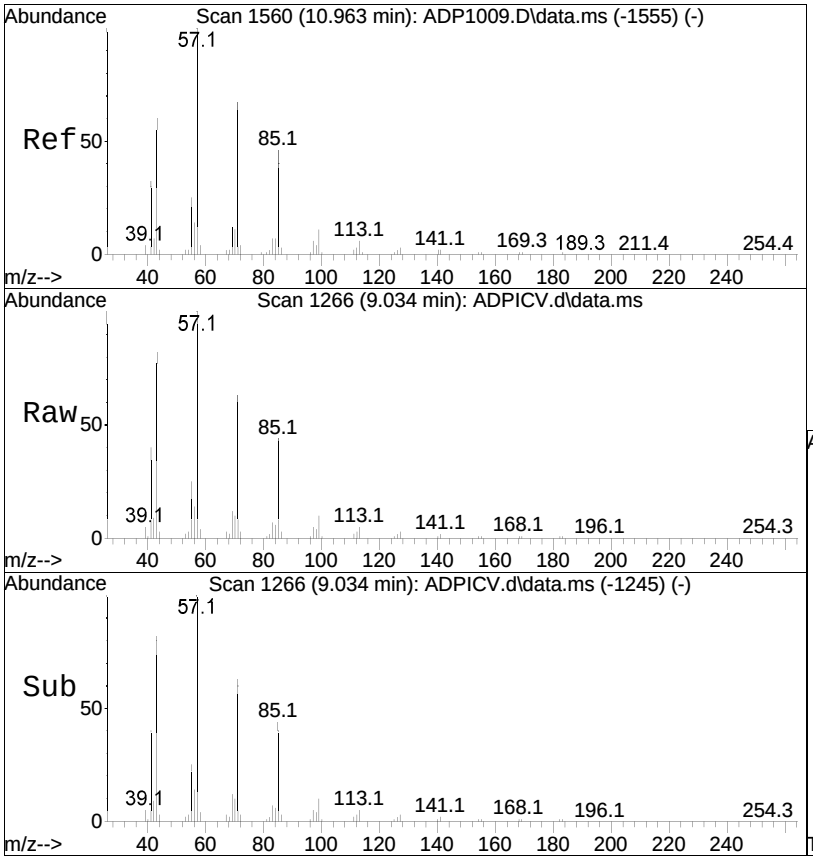


#86
Atrazine
Concen: 4.52 ug/ml
RT: 8.828 min Scan# 1231
Delta R.T. -0.000 min
Lab File: ADPICV.d
Acq: 13 Oct 2020 3:19 am

Tgt Ion:200 Resp: 21059

Ion	Ratio	Lower	Upper
200	100		
202	31.7	25.8	38.6
215	46.0	40.2	60.4

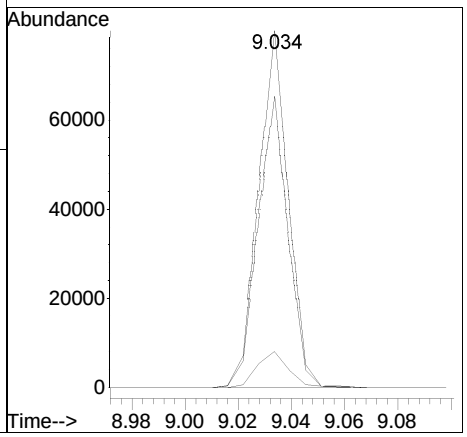


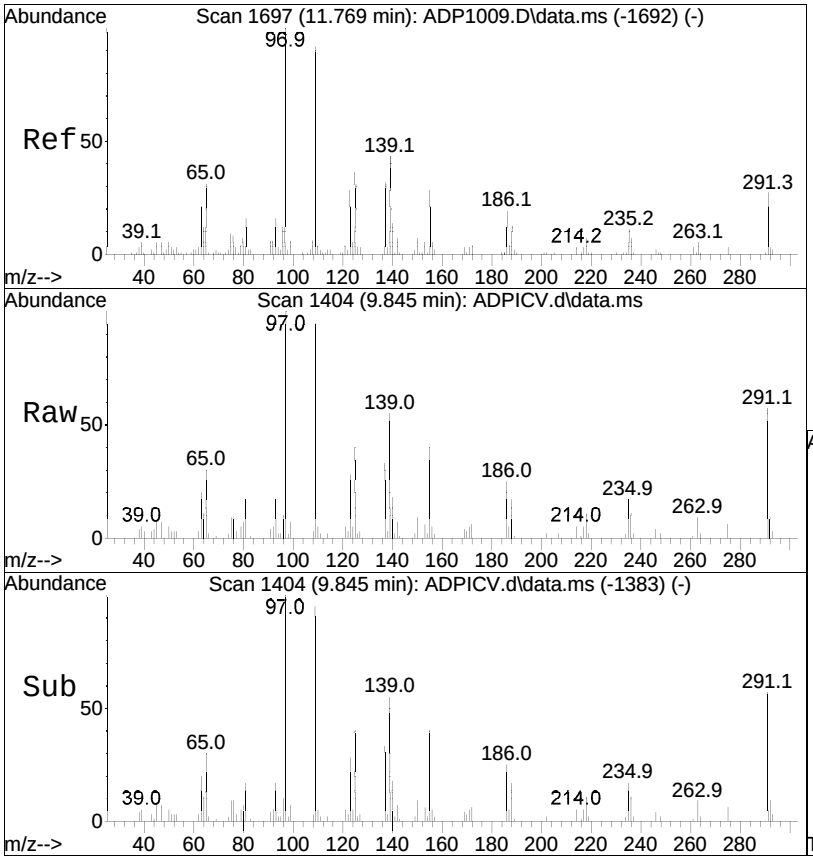


#100
n-Octadecane
Concen: 4.48 ug/ml
RT: 9.034 min Scan# 1266
Delta R.T. 0.000 min
Lab File: ADPICV.d
Acq: 13 Oct 2020 3:19 am

Tgt Ion: 57 Resp: 61870

Ion	Ratio	Lower	Upper
57	100		
43	82.5	9.0	13.6#
70	11.1	0.2	0.2#

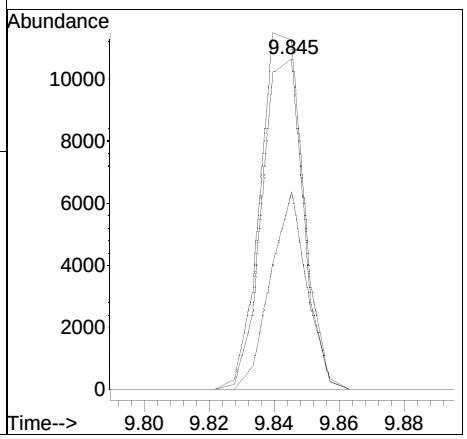


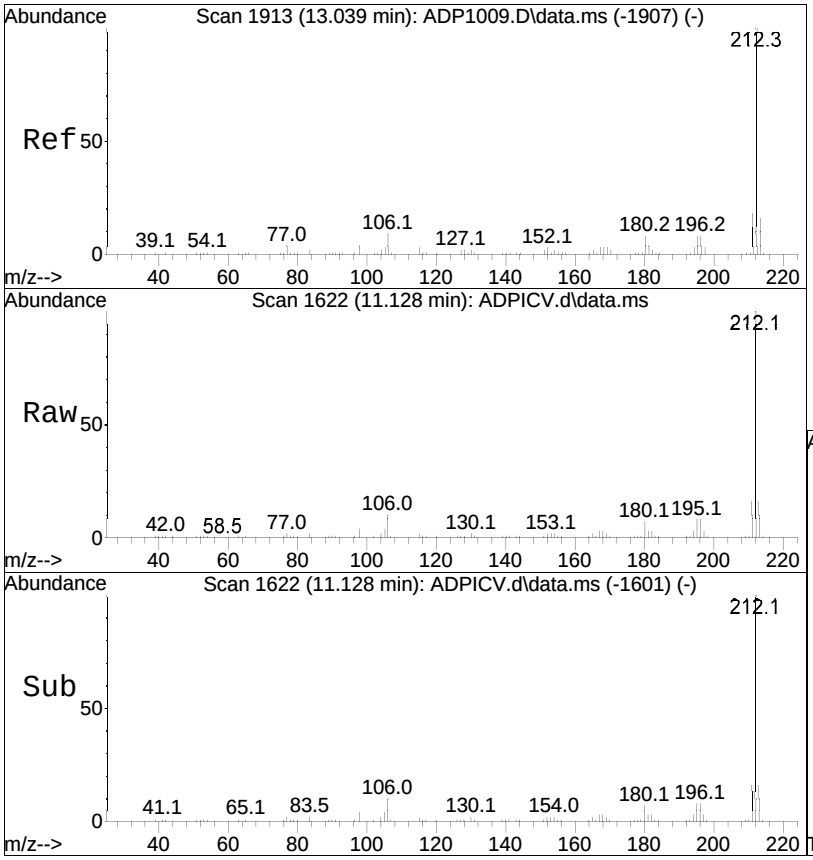


#101
Parathion
Concen: 3.96 ug/ml
RT: 9.845 min Scan# 1404
Delta R.T. 0.000 min
Lab File: ADPICV.d
Acq: 13 Oct 2020 3:19 am

Tgt Ion:109 Resp: 9365

Ion	Ratio	Lower	Upper
109	100		
97	112.5	87.4	131.2
291	52.9	34.2	51.2#

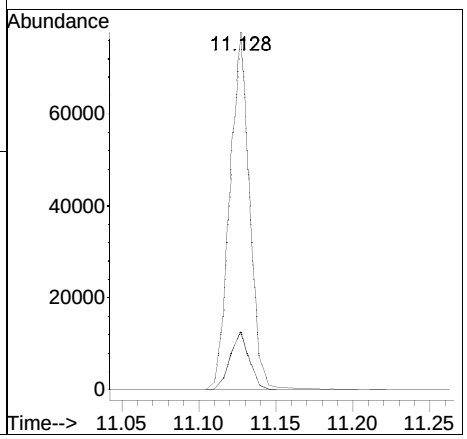




#102
3,3'-Dimethylbenzidine
Concen: 3.87 ug/ml
RT: 11.128 min Scan# 1622
Delta R.T. 0.001 min
Lab File: ADPICV.d
Acq: 13 Oct 2020 3:19 am

Tgt Ion:212 Resp: 68544

Ion	Ratio	Lower	Upper
212	100		
211	15.8	12.9	19.3
213	15.8	13.2	19.8



Manual Integration/Negative Proof Report

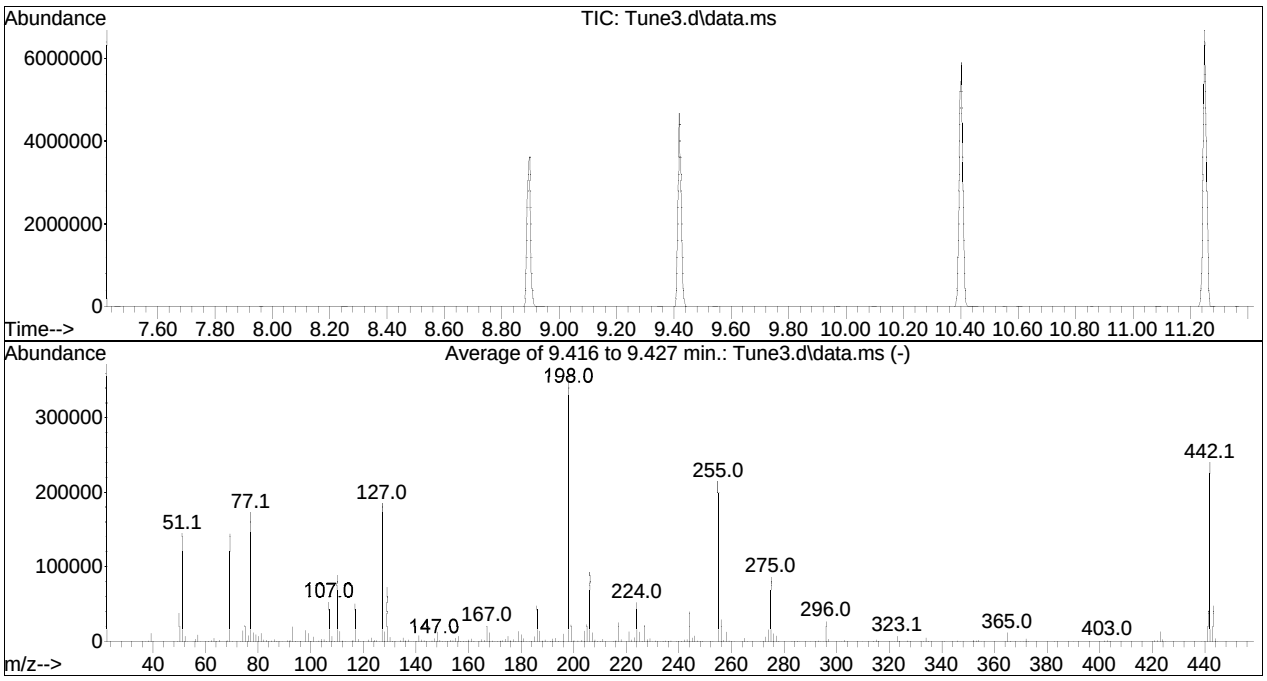
Data Path	: I:\8270\SV124\201012ical\	QMethod	: FS201012SV124.m
Data File	: ADPICV.d	Operator	: sv124:wr
Date Inj'd	: 10/13/2020 3:19 am	Instrument	: SV 124
Sample	: CQICV3,32,,ADPICV #8981	Quant Date	: 10/13/2020 1:14 pm

There are no manual integrations or false positives in this file.

Data Path : I:\8270\SV124\201012ical\
Data File : Tune3.d
Acq On : 13 Oct 2020 3:41 pm
Operator : sv124:wr
Sample : TUNE
Misc : wg1422524,,
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV124\201012ical\FS201012SV124.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Oct 15 15:41:06 2020



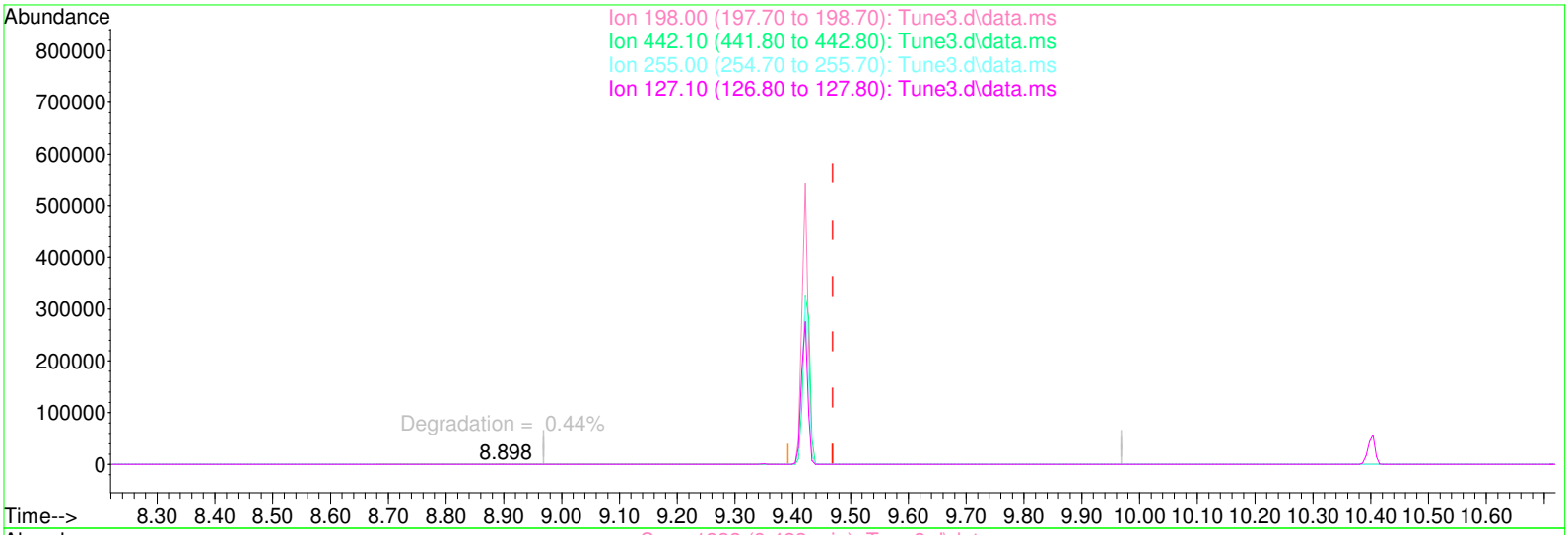
Spectrum Information: Average of 9.416 to 9.427 min.

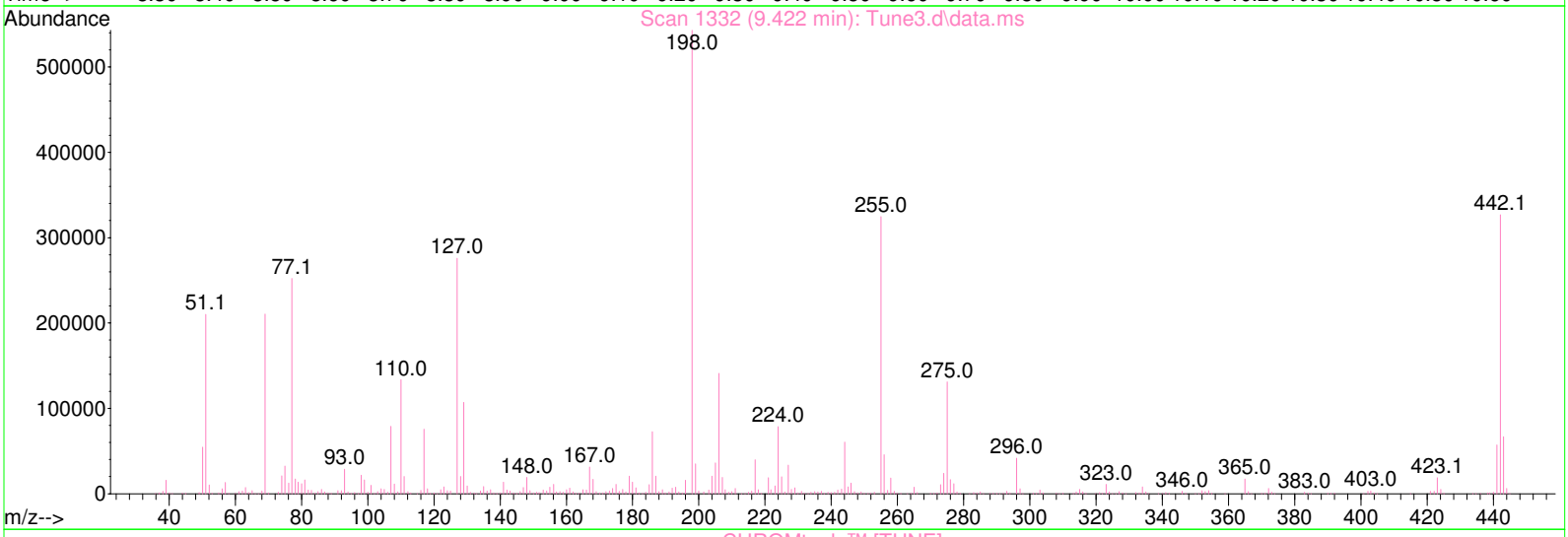
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	40.9	144691	PASS
68	69	0.00	2	1.5	2178	PASS
69	69	100	100	100.0	143683	PASS
70	69	0.00	2	0.5	757	PASS
127	198	10	80	52.1	184136	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	353707	PASS
199	198	5	9	6.5	22846	PASS
275	198	10	60	24.4	86211	PASS
365	198	1	100	3.3	11707	PASS
441	442	0.01	24	17.3	41589	PASS
442	198	50	100	67.8	239899	PASS
443	442	15	24	19.9	47640	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV124\201012ical\
Data File : Tune3.d
Acq On : 13 Oct 2020 3:41 pm
Operator : sv124:wr
Sample : TUNE
Misc : wg1422524,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 15 15:57:09 2020
Quant Method : I:\8270\SV124\201012ical\dftppSV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Aug 24 20:27:27 2020
Response via : Initial Calibration





CHROMtools™ [TUNE]

(2) DFTPP (T)

9.422min (-0.047) 149.09 Lin

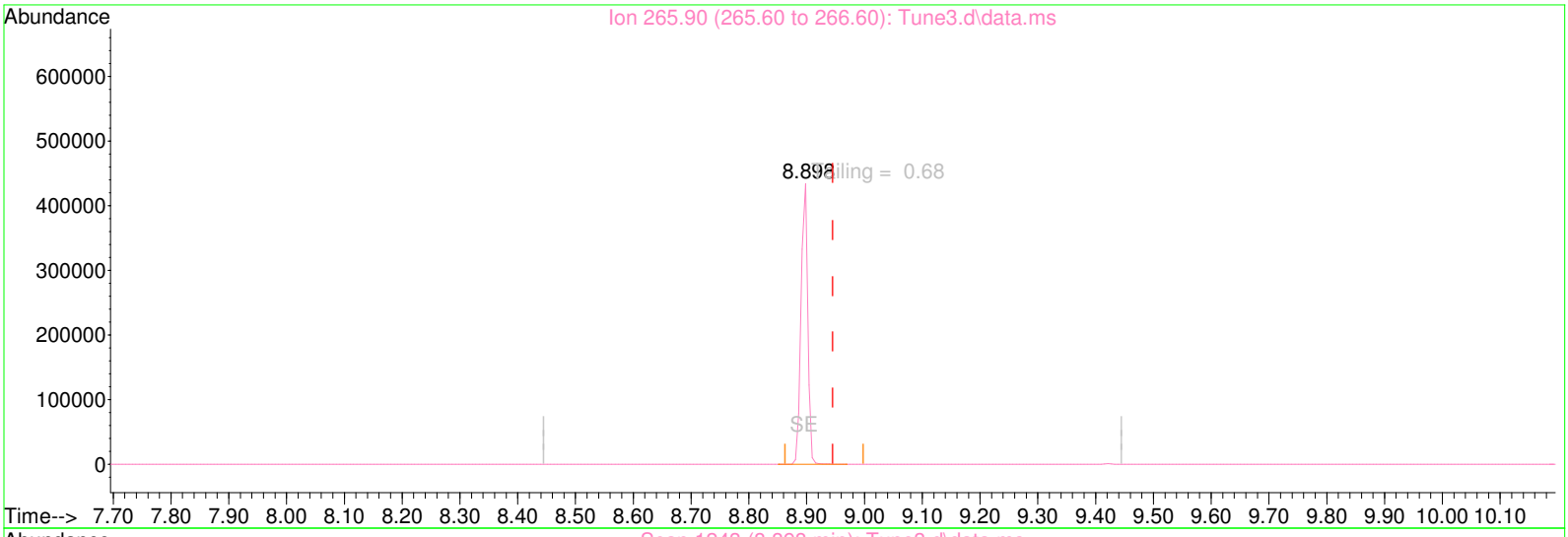
response 400033

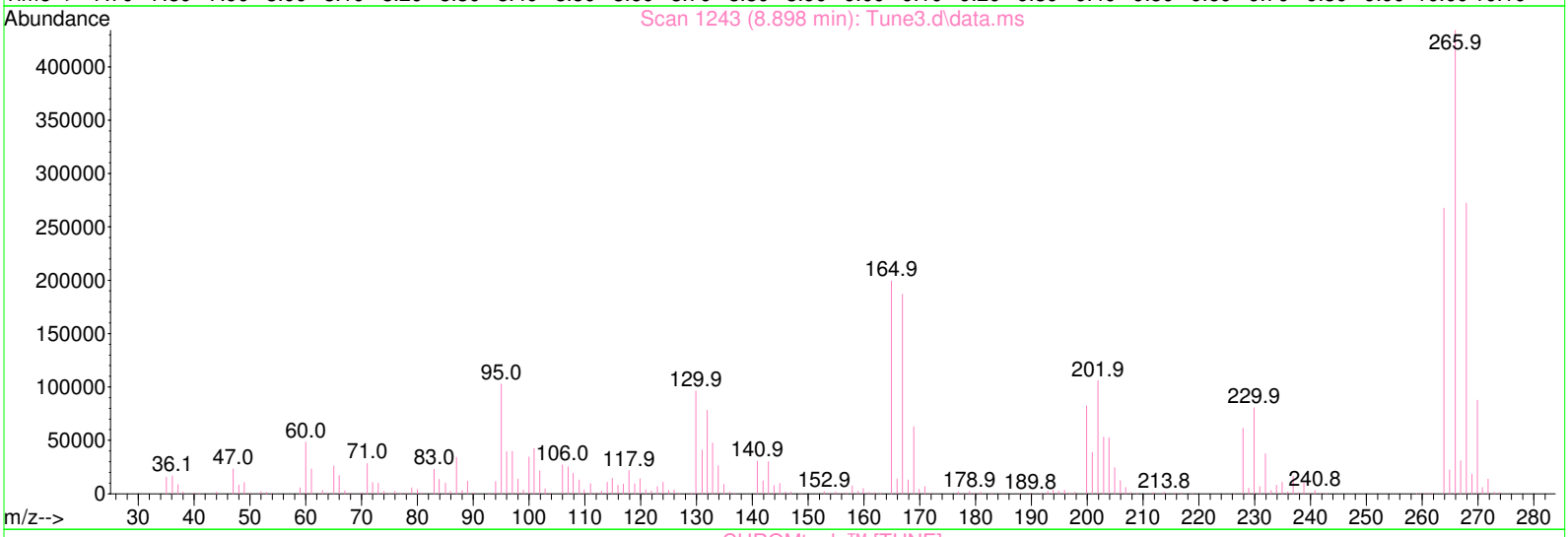
Ion	Exp%	Act%
198.00	100.00	100.00
442.10	67.60	69.10
255.00	60.00	60.26
127.10	51.40	52.58

Quantitation Report (Qedit)

Data Path : I:\8270\SV124\201012ical\
Data File : Tune3.d
Acq On : 13 Oct 2020 3:41 pm
Operator : sv124:wr
Sample : TUNE
Misc : wg1422524,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 15 15:57:09 2020
Quant Method : I:\8270\SV124\201012ical\dftppSV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Aug 24 20:27:27 2020
Response via : Initial Calibration





CHROMtools™ [TUNE]

(1) Pentachlorophenol (T)

8.898min (-0.047) 167.25 Lin

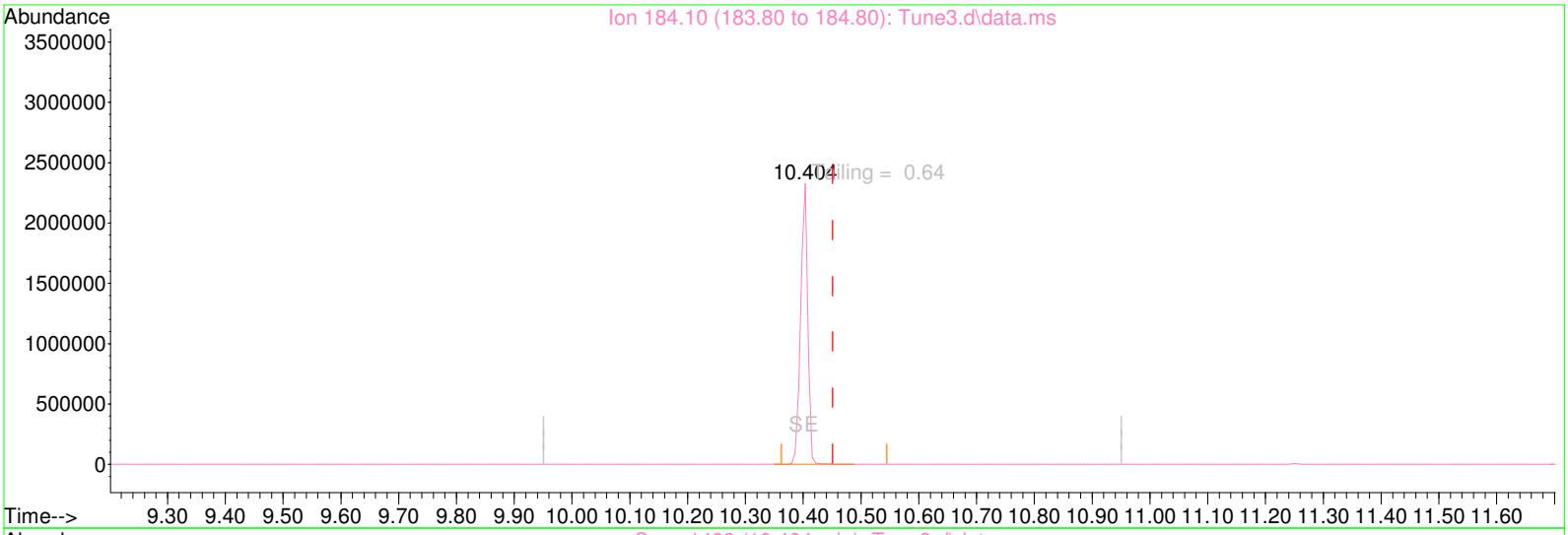
response 351281

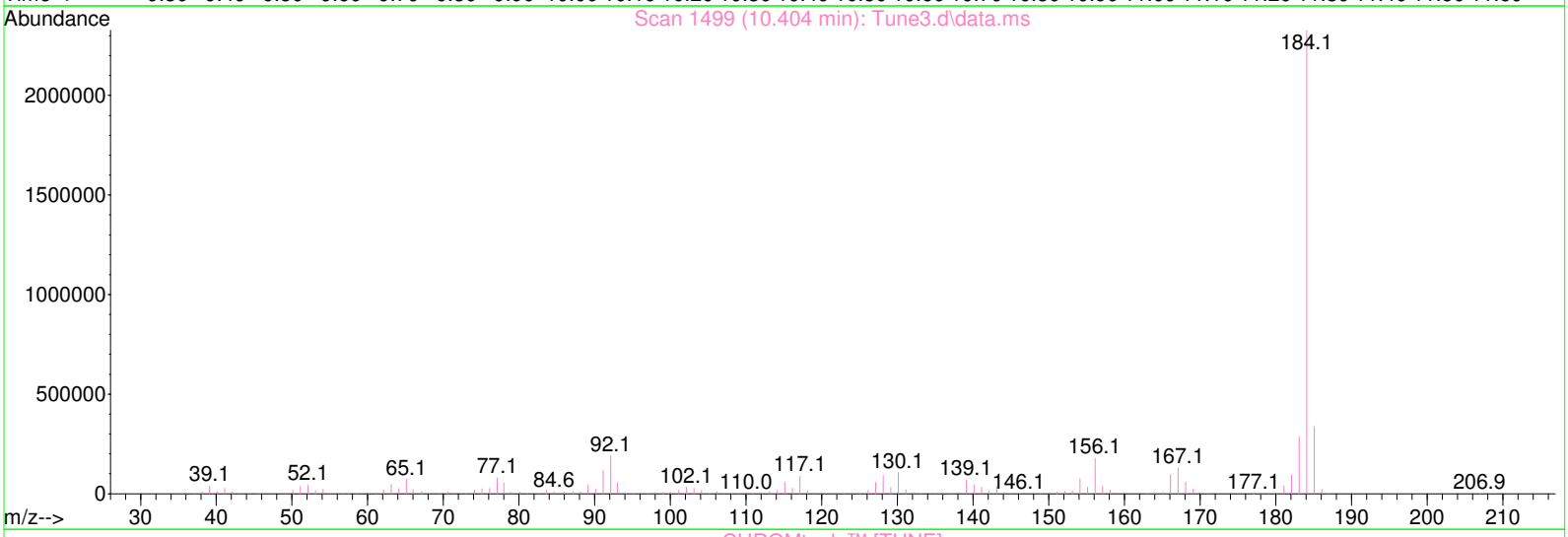
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV124\201012ical\
Data File : Tune3.d
Acq On : 13 Oct 2020 3:41 pm
Operator : sv124:wr
Sample : TUNE
Misc : wg1422524,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 15 15:57:09 2020
Quant Method : I:\8270\SV124\201012ical\dftppSV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Aug 24 20:27:27 2020
Response via : Initial Calibration





CHROMtools™ [TUNE]

(3) Benzidine (T)

10.404min (-0.047) 199.48 Lin

response 2030710

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV124\201012ical\
Data File : ABNICVa.d
Acq On : 13 Oct 2020 6:48 pm
Operator : sv124:wr
Sample : CQICV1,32,,ABNICV #8982
Misc : wg1422524,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 15 15:42:03 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 15 15:41:53 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	82	0.00
2	t	n-Nitrosodimethylamine		0.407	0.415	-2.0	85	-0.01
3	t	Pyridine		0.701	0.712	-1.6	84	0.00
4	S	2-Fluorophenol		0.647	0.674	-4.2	88	0.00
5	T	Aniline		1.086	1.105	-1.7	85	0.00
6	t	2-Chlorophenol		0.760	0.804	-5.8	87	0.00
7	S	Phenol-d6		0.785	0.784	0.1	82	0.00
8	T	Phenol		0.955	0.970	-1.6	85	0.00
9	T	Bis(2-chloroethyl)ether		0.701	0.724	-3.3	87	0.00
10	T	1,3-Dichlorobenzene		0.907	0.930	-2.5	86	0.00
11	T	1,4-Dichlorobenzene		0.915	0.971	-6.1	88	0.00
12	T	1,2-Dichlorobenzene		0.888	0.911	-2.6	87	0.00
13	t	Benzyl alcohol		0.565	0.547	3.2	80	0.00
14	T	Bis(2-chloroisopropyl)ether		1.059	1.073	-1.3	85	0.00
15	T	2-Methylphenol		0.656	0.662	-0.9	83	0.00
16	T	Hexachloroethane		0.350	0.364	-4.0	89	0.00
17	T	n-Nitrosodi-n-propylamine		0.495	0.464	6.3	78	0.00
18	T	3-Methylphenol/4-Methylphen		0.696	0.708	-1.7	83	0.00
19	S	Nitrobenzene-d5		0.760	0.760	0.0	82	0.00
20	T	Nitrobenzene		0.760	0.761	-0.1	83	0.00
21	T	Isophorone		1.348	1.348	0.0	81	0.00
22	T	2-Nitrophenol		0.393	0.357	9.2	80	0.00
23	T	2,4-Dimethylphenol		0.747	0.750	-0.4	82	0.00
24	T	Bis(2-chloroethoxy)methane		0.928	0.904	2.6	81	0.00
25	T	2,4-Dichlorophenol		0.668	0.674	-0.9	81	0.00
26	T	1,2,4-Trichlorobenzene		0.770	0.777	-0.9	84	0.00
34	I	IS1_Naphthalene-d8		1.000	1.000	0.0	85	0.00
35	T	Naphthalene		1.035	1.008	2.6	83	0.00
36	T	Benzoic Acid	*	5.000	4.025	19.5	68	0.00
37	T	4-Chloroaniline		0.118	0.111	5.9	83	0.00
38	T	Hexachlorobutadiene		0.191	0.188	1.6	84	0.00
39	T	p-Chloro-m-cresol		0.271	0.256	5.5	81	0.00
40	T	2-Methylnaphthalene		0.705	0.684	3.0	82	0.00
41	T	1-Methylnaphthalene		0.237	0.224	5.5	81	0.00
42	T	Hexachlorocyclopentadiene		0.253	0.235	7.1	81	0.00
43	T	2,4,6-Trichlorophenol		0.216	0.194	10.2	79	0.00
44	T	2,4,5-Trichlorophenol		0.234	0.224	4.3	81	0.00
45	S	2-Fluorobiphenyl		0.806	0.756	6.2	81	0.00

Data Path : I:\8270\SV124\201012ical\
Data File : ABNICVa.d
Acq On : 13 Oct 2020 6:48 pm
Operator : sv124:wr
Sample : CQICV1,32,,ABNICV #8982
Misc : wg1422524,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 15 15:42:03 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 15 15:41:53 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.674	0.657	2.5	83	0.00
47	T	2-Nitroaniline		0.192	0.160	16.7	74	0.00
48	T	1,4-Dinitrobenzene		0.104	0.084	19.2	75	0.00
49	T	1,3-Dinitrobenzene		0.118	0.104	11.9	80	0.00
50	T	Dimethyl phthalate		0.797	0.758	4.9	79	0.00
51	T	Acenaphthylene		1.065	1.049	1.5	80	0.00
52	T	2,6-Dinitrotoluene		0.165	0.153	7.3	78	0.00
53	T	1,2-Dinitrobenzene		0.078	0.070	10.3	79	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	83	0.00
63	T	3-Nitroaniline		0.331	0.304	8.2	76	0.00
64	T	Acenaphthene		1.185	1.132	4.5	81	0.00
65	T	2,4-Dinitrophenol	*	5.000	4.383	12.3	72	0.00
66	T	Dibenzofuran		1.818	1.726	5.1	80	0.00
67	T	2,4-Dinitrotoluene		0.404	0.370	8.4	77	0.00
68	T	4-Nitrophenol		0.252	0.223	11.5	78	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.366	0.337	7.9	81	0.00
70	T	2,3,4,6-Tetrachlorophenol		0.352	0.326	7.4	77	0.00
71	T	Diethyl phthalate		1.460	1.373	6.0	77	0.00
72	T	Fluorene		1.386	1.330	4.0	79	0.00
73	T	4-Chlorophenyl phenyl ether		0.684	0.639	6.6	79	0.00
74	T	4-Nitroaniline		0.327	0.312	4.6	81	0.00
75	T	4,6-Dinitro-o-cresol	*	5.000	4.145	17.1	74	0.00
76	T	NDPA/DPA		1.159	1.140	1.6	80	0.00
77	T	Azobenzene		1.361	1.308	3.9	79	0.00
78	S	2,4,6-Tribromophenol	*	5.000	4.270	14.6	73	0.00
79	T	4-Bromophenyl phenyl ether		0.407	0.361	11.3	75	0.00
80	T	Hexachlorobenzene		0.473	0.444	6.1	79	0.00
81	T	Pentachlorophenol		0.285	0.235	17.5	73	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	83	0.00
88	T	Phenanthrene		1.128	1.078	4.4	79	0.00
89	T	Anthracene		1.086	1.065	1.9	80	0.00
90	T	Carbazole		0.982	0.975	0.7	81	0.00
91	T	Di-n-butylphthalate		1.238	1.046	15.5	74	0.00
92	T	Fluoranthene		1.172	1.162	0.9	80	0.00
93	T	Benzidine		0.832	0.674	19.0	77	0.00
94	T	Pyrene		1.235	1.267	-2.6	82	0.00
95	S	4-Terphenyl-d14		0.945	0.924	2.2	80	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV124\201012ical\
Data File : ABNICVa.d
Acq On : 13 Oct 2020 6:48 pm
Operator : sv124:wr
Sample : CQICV1,32,,ABNICV #8982
Misc : wg1422524,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 15 15:42:03 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 15 15:41:53 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	*	5.000	4.113	17.7	70	0.01
103	I	IS1_Chrysene-d12		1.000	1.000	0.0	84	0.00
104	T	Benzo(a)anthracene		1.176	1.074	8.7	77	0.01
105	T	3,3'-Dichlorobenzidine		0.445	0.396	11.0	77	0.00
106	T	Chrysene		1.205	1.143	5.1	81	0.00
107	T	Bis(2-ethylhexyl)phthalate	*	5.000	4.127	17.5	74	0.00
108	T	Di-n-octylphthalate	*	5.000	4.028	19.4	70	0.01
109	T	Benzo(b)fluoranthene		1.228	1.092	11.1	74	0.01
110	T	Benzo(k)fluoranthene		1.079	1.110	-2.9	87	0.01
111	T	Benzo(a)pyrene		0.981	0.928	5.4	78	0.00
112	I	IS1_Perylene-d12		1.000	1.000	0.0	83	0.00
113	T	Indeno(1,2,3-cd)pyrene		1.097	0.923	15.9	71	0.01
114	T	Dibenzo(a,h)anthracene		1.148	1.035	9.8	75	0.01
115	T	Benzo(ghi)perylene		1.137	1.069	6.0	78	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ABNICVa.d
Acq On : 13 Oct 2020 6:48 pm
Operator : sv124:wr
Sample : CQICV1,32,,ABNICV #8982
Misc : wg1422524,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 15 15:42:03 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 15 15:41:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.687	150	43668M6	4.000	ug/ml	0.00
Standard Area 1 = 50323			Recovery = 86.78%			
34) IS1_Naphthalene-d8	5.928	136	105987	4.000	ug/ml	0.00
Standard Area 1 = 127278			Recovery = 83.27%			
62) IS1_Acenaphthene-d10	7.628	164	59353	4.000	ug/ml	0.00
Standard Area 1 = 71862			Recovery = 82.59%			
87) IS1_Phenanthrene-d10	9.063	188	113974	4.000	ug/ml	0.00
Standard Area 1 = 138593			Recovery = 82.24%			
103) IS1_Chrysene-d12	11.698	240	118718	4.000	ug/ml	0.00
Standard Area 1 = 144009			Recovery = 82.44%			
112) IS1_Perylene-d12	13.168	264	113519	4.000	ug/ml	0.00
Standard Area 1 = 139085			Recovery = 81.62%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.404	112	36798	5.207	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 104.14%			
7) Phenol-d6	4.363	99	42799	4.996	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 99.92%			
19) Nitrobenzene-d5	5.228	82	41476	4.996	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 199.84%#			
45) 2-Fluorobiphenyl	6.998	172	100192	4.690	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 187.60%#			
78) 2,4,6-Tribromophenol	8.392	330	13815	4.270	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery. = 85.40%			
95) 4-Terphenyl-d14	10.645	244	131643	4.890	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery. = 195.60%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.010	74	22657	5.102	ug/ml	81
3) Pyridine	2.052	79	38838	5.073	ug/ml#	60
5) Aniline	4.369	93	60301	5.085	ug/ml#	57
6) 2-Chlorophenol	4.481	128	43888	5.287	ug/ml#	86
8) Phenol	4.375	94	52922	5.078	ug/ml#	57
9) Bis(2-chloroethyl)ether	4.451	93	39508	5.160	ug/ml	87
10) 1,3-Dichlorobenzene	4.628	146	50766	5.129	ug/ml	96
11) 1,4-Dichlorobenzene	4.704	146	52975	5.301	ug/ml	96
12) 1,2-Dichlorobenzene	4.851	146	49748	5.129	ug/ml	96
13) Benzyl alcohol	4.840	79	29866	4.846	ug/ml	94
14) Bis(2-chloroisopropyl)...	4.987	45	58579	5.068	ug/ml#	52

Data Path : I:\8270\SV124\201012ical\
Data File : ABNICVa.d
Acq On : 13 Oct 2020 6:48 pm
Operator : sv124:wr
Sample : CQICV1,32,,ABNICV #8982
Misc : wg1422524,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 15 15:42:03 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 15 15:41:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.963	108	36119	5.043	ug/ml	97
16) Hexachloroethane	5.175	117	19876	5.204	ug/ml#	78
17) n-Nitrosodi-n-propylamine	5.110	70	25312	4.683	ug/ml	96
18) 3-Methylphenol/4-Methy...	5.122	108	38628	5.084	ug/ml	98
20) Nitrobenzene	5.245	77	41565	5.009	ug/ml	99
21) Isophorone	5.487	82	73567	4.998	ug/ml	98
22) 2-Nitrophenol	5.563	139	19461	4.535	ug/ml	88
23) 2,4-Dimethylphenol	5.634	107	40934	5.017	ug/ml	97
24) Bis(2-chloroethoxy)met...	5.728	93	49331	4.870	ug/ml	98
25) 2,4-Dichlorophenol	5.798	162	36794	5.049	ug/ml	95
26) 1,2,4-Trichlorobenzene	5.881	180	42420	5.044	ug/ml	99
35) Naphthalene	5.945	128	133480	4.869	ug/ml	99
36) Benzoic Acid	5.698	105	18961	4.025	ug/ml	93
37) 4-Chloroaniline	6.016	65	14687	4.709	ug/ml#	66
38) Hexachlorobutadiene	6.092	225	24941	4.922	ug/ml	98
39) p-Chloro-m-cresol	6.510	107	33949	4.736	ug/ml	96
40) 2-Methylnaphthalene	6.622	142	90558	4.846	ug/ml	96
41) 1-Methylnaphthalene	6.716	115	29712	4.731	ug/ml	97
42) Hexachlorocyclopentadiene	6.792	237	31088	4.629	ug/ml	99
43) 2,4,6-Trichlorophenol	6.910	196	25723	4.498	ug/ml	98
44) 2,4,5-Trichlorophenol	6.939	196	29673	4.787	ug/ml	95
46) 2-Chloronaphthalene	7.092	162	87033	4.873	ug/ml	97
47) 2-Nitroaniline	7.198	138	21250	4.184	ug/ml#	84
48) 1,4-Dinitrobenzene	7.334	168	11141	4.061	ug/ml	82
49) 1,3-Dinitrobenzene	7.410	168	13779	4.402	ug/ml#	1
50) Dimethyl phthalate	7.404	163	100407	4.752	ug/ml#	99
51) Acenaphthylene	7.486	152	139004	4.925	ug/ml	100
52) 2,6-Dinitrotoluene	7.445	165	20309	4.659	ug/ml#	82
53) 1,2-Dinitrobenzene	7.486	168	9310	4.486	ug/ml#	1
63) 3-Nitroaniline	7.598	138	22548	4.594	ug/ml#	92
64) Acenaphthene	7.657	154	83999	4.777	ug/ml	91
65) 2,4-Dinitrophenol	7.698	184	10160	4.383	ug/ml	93
66) Dibenzofuran	7.828	168	128047	4.747	ug/ml	98
67) 2,4-Dinitrotoluene	7.833	165	27474	4.581	ug/ml	96
68) 4-Nitrophenol	7.781	65	16528	4.418	ug/ml#	81
69) 2,3,5,6-Tetrachlorophenol	7.916	232	25025	4.608	ug/ml	98
70) 2,3,4,6-Tetrachlorophenol	7.957	232	24211	4.638	ug/ml	96
71) Diethyl phthalate	8.092	149	101842	4.702	ug/ml	100
72) Fluorene	8.163	166	98696	4.800	ug/ml	93
73) 4-Chlorophenyl phenyl ...	8.181	204	47376	4.668	ug/ml	94

Data Path : I:\8270\SV124\201012ical\
Data File : ABNICVa.d
Acq On : 13 Oct 2020 6:48 pm
Operator : sv124:wr
Sample : CQICV1,32,,ABNICV #8982
Misc : wg1422524,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 15 15:42:03 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 15 15:41:53 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201012ical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Nitroaniline	8.186	138	23151	4.766	ug/ml#	81
75) 4,6-Dinitro-o-cresol	8.222	198	13100	4.145	ug/ml#	68
76) NDPA/DPA	8.292	169	84558	4.919	ug/ml	95
77) Azobenzene	8.328	77	97070	4.806	ug/ml	99
79) 4-Bromophenyl phenyl e...	8.651	248	26760	4.430	ug/ml#	87
80) Hexachlorobenzene	8.698	284	32958	4.693	ug/ml#	89
81) Pentachlorophenol	8.892	266	17434	4.126	ug/ml	98
88) Phenanthrene	9.086	178	153522	4.778	ug/ml	99
89) Anthracene	9.133	178	151675	4.903	ug/ml	99
90) Carbazole	9.298	167	138968	4.966	ug/ml	100
91) Di-n-butylphthalate	9.692	149	148957	4.224	ug/ml	99
92) Fluoranthene	10.239	202	165560	4.957	ug/ml#	93
93) Benzidine	10.392	184	96060	4.054	ug/ml#	94
94) Pyrene	10.457	202	180517	5.128	ug/ml	99
96) Butyl benzyl phthalate	11.174	149	54211	4.113	ug/ml	91
104) Benzo(a)anthracene	11.692	228	159392	4.566	ug/ml	99
105) 3,3'-Dichlorobenzidine	11.692	252	58836	4.452	ug/ml	97
106) Chrysene	11.727	228	169552	4.742	ug/ml	99
107) Bis(2-ethylhexyl)phtha...	11.810	149	95359	4.127	ug/ml#	92
108) Di-n-octylphthalate	12.492	149	132388	4.028	ug/ml#	75
109) Benzo(b)fluoranthene	12.798	252	162061	4.447	ug/ml#	94
110) Benzo(k)fluoranthene	12.827	252	164694	5.141	ug/ml#	95
111) Benzo(a)pyrene	13.110	252	137719	4.732	ug/ml#	95
113) Indeno(1,2,3-cd)pyrene	14.127	276	130986M6	4.206	ug/mL	
114) Dibenzo(a,h)anthracene	14.151	278	146843	4.505	ug/ml#	90
115) Benzo(ghi)perylene	14.345	276	151700	4.702	ug/ml#	88

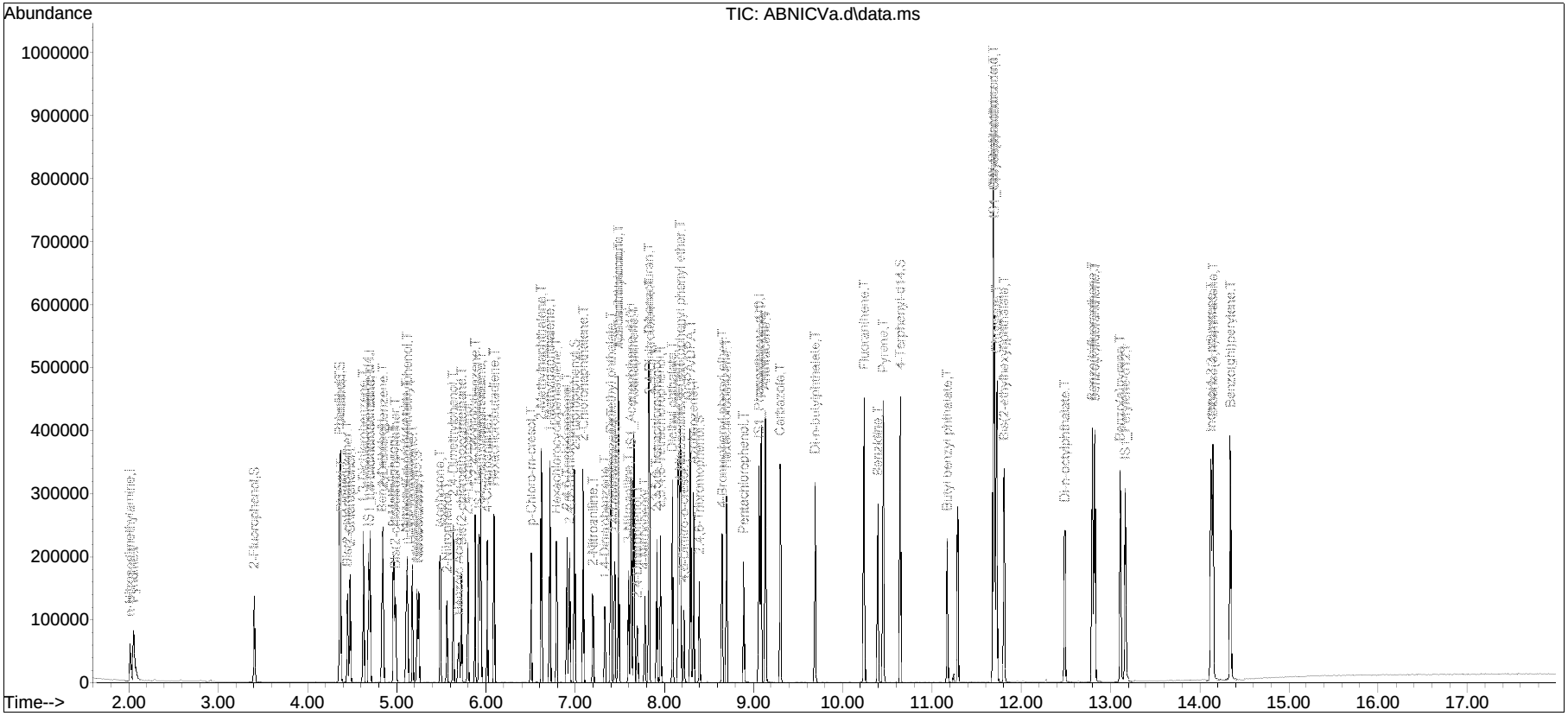
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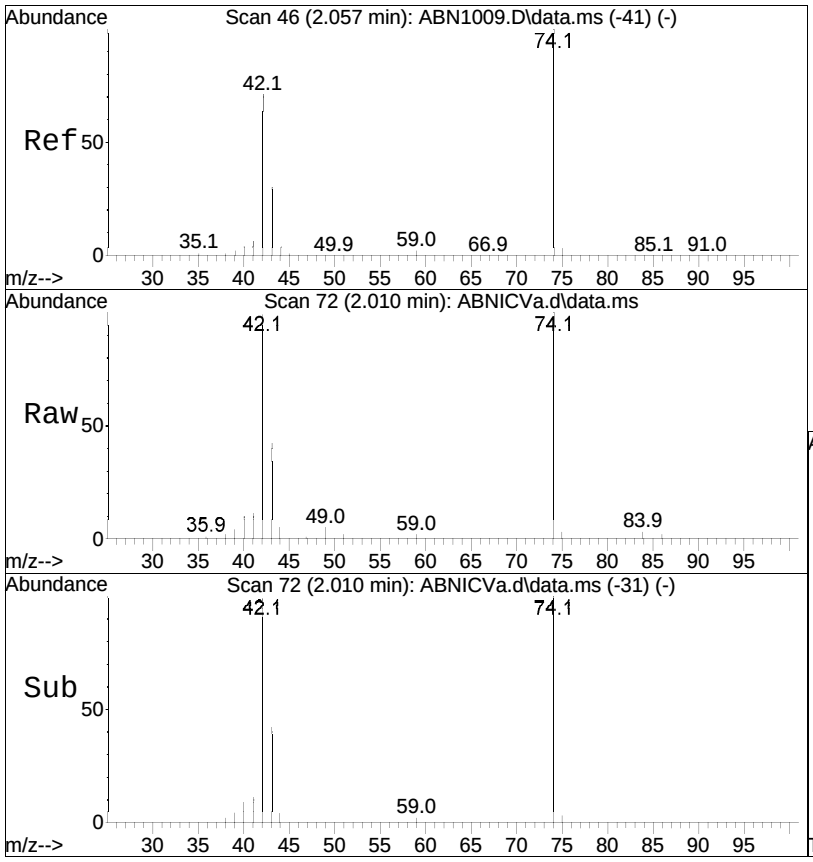
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201012ical\
Data File : ABNICVa.d
Acq On : 13 Oct 2020 6:48 pm
Operator : sv124:wr
Sample : CQICV1,32,,ABNICV #8982
Misc : wg1422524,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 15 15:42:03 2020
Quant Method : I:\8270\SV124\201012ical\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 15 15:41:53 2020
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\ABNL7.d•

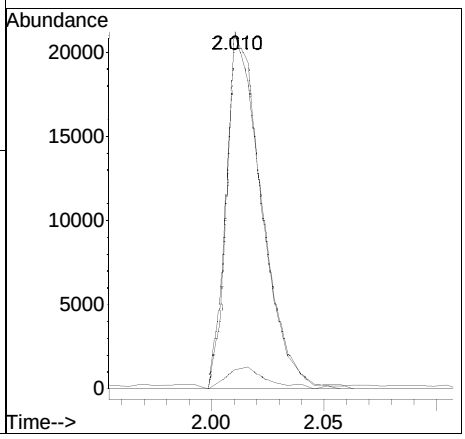


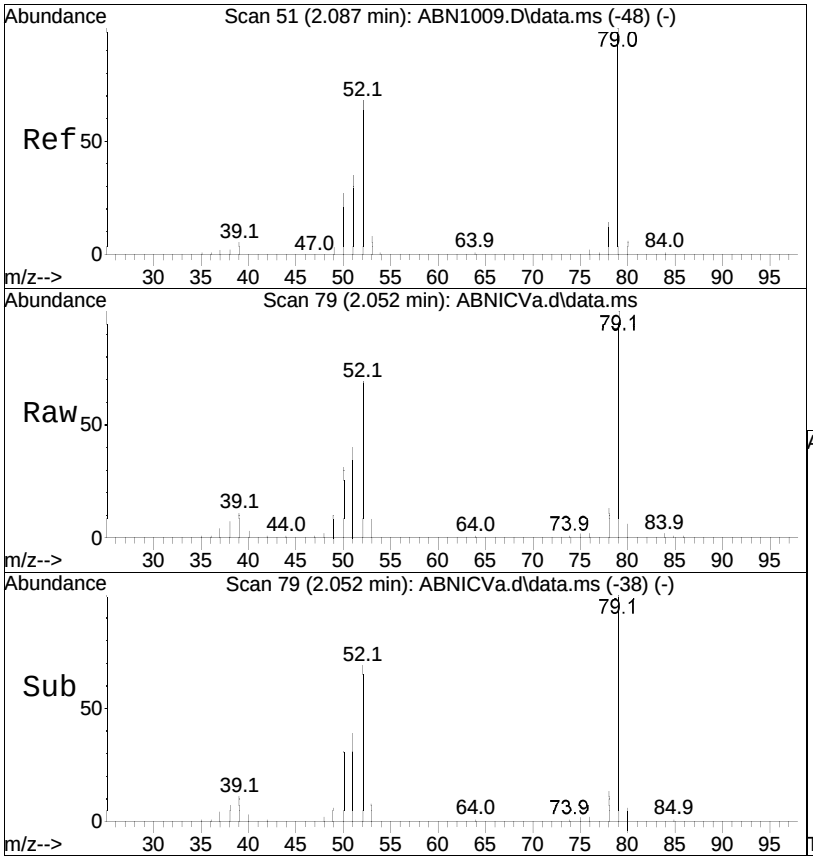


#2
n-Nitrosodimethylamine
Concen: 5.10 ug/ml
RT: 2.010 min Scan# 72
Delta R.T. -0.012 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion: 74 Resp: 22657

Ion	Ratio	Lower	Upper
74	100		
42	101.6	100.0	150.0
44	7.0	6.7	10.1

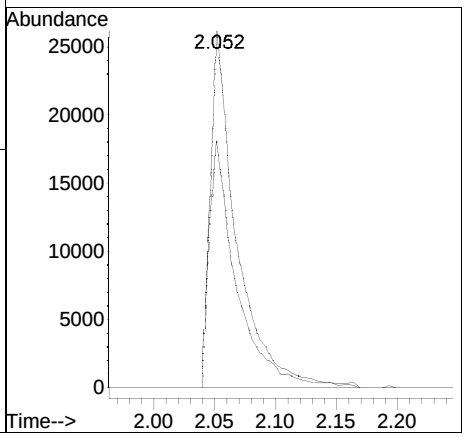


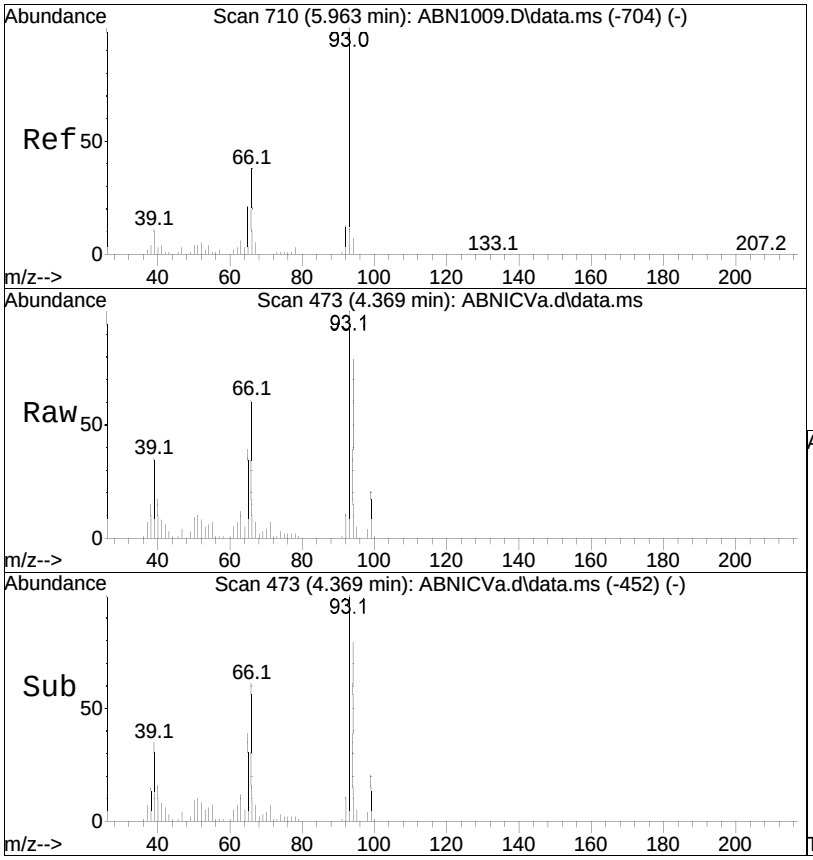


#3
Pyridine
Concen: 5.07 ug/ml
RT: 2.052 min Scan# 79
Delta R.T. -0.006 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion: 79 Resp: 38838

Ion	Ratio	Lower	Upper
79	100		
52	72.6	93.1	139.7#

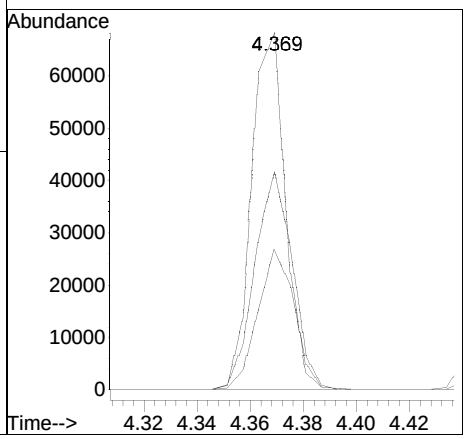


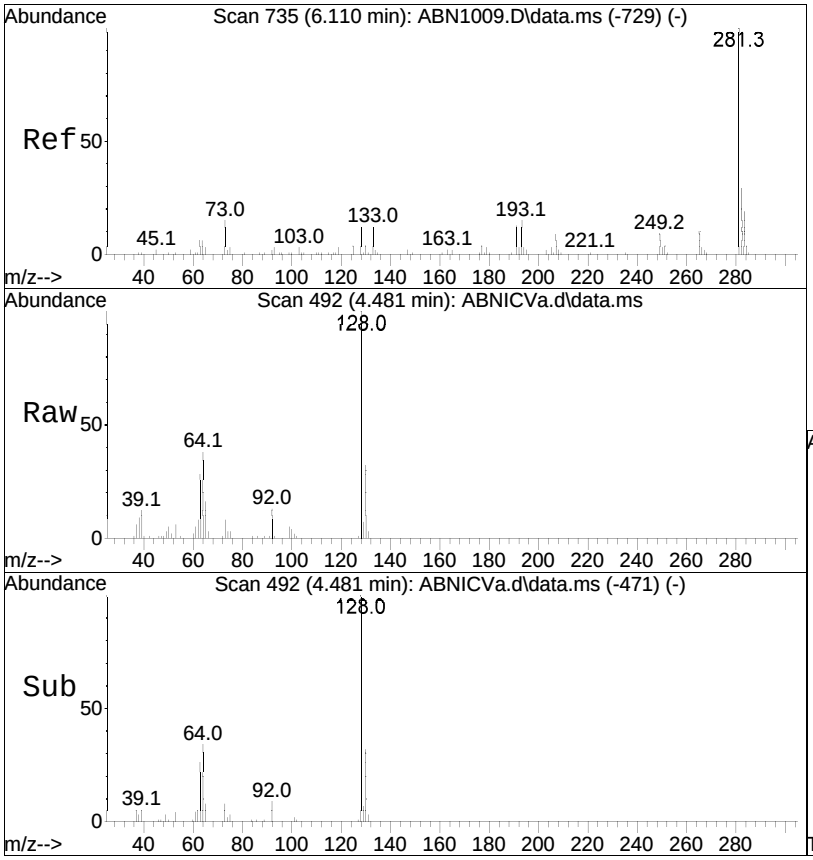


#5
Aniline
Concen: 5.08 ug/ml
RT: 4.369 min Scan# 473
Delta R.T. 0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion: 93 Resp: 60301

Ion	Ratio	Lower	Upper
93	100		
66	67.9	32.6	49.0#
65	42.4	17.6	26.4#

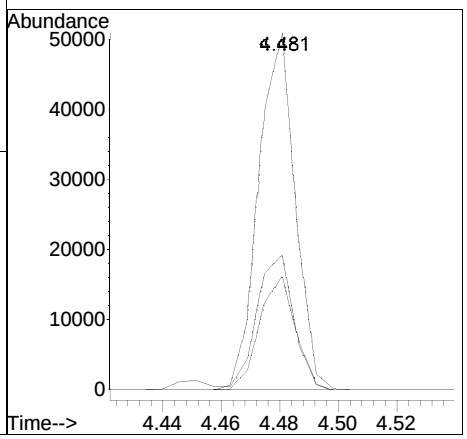


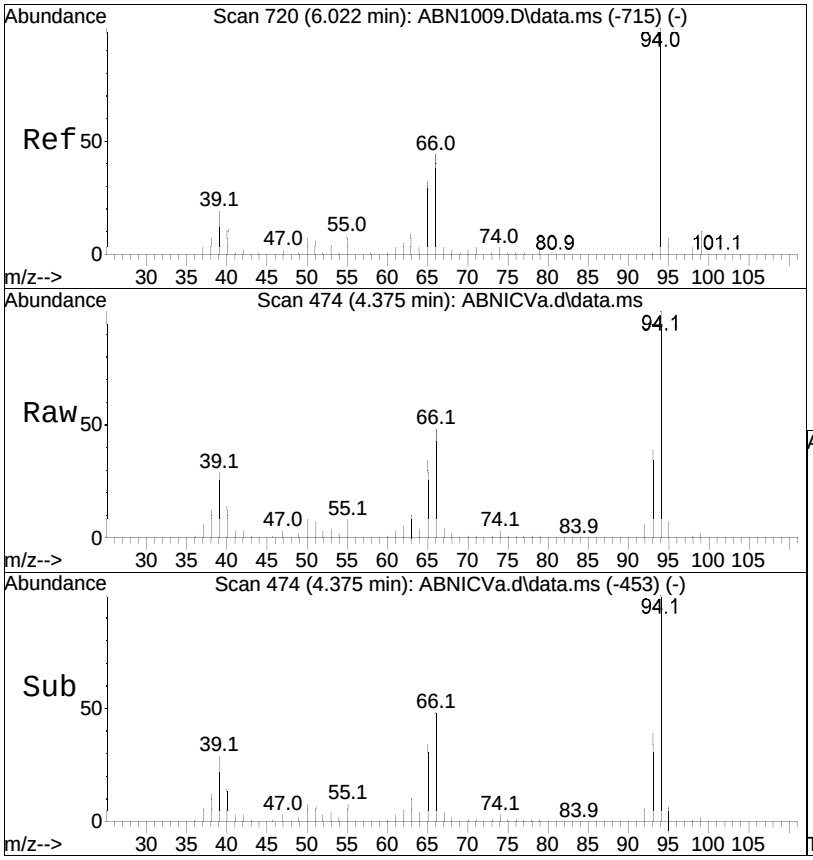


#6
2-Chlorophenol
Concen: 5.29 ug/ml
RT: 4.481 min Scan# 492
Delta R.T. -0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:128 Resp: 43888

Ion	Ratio	Lower	Upper
128	100		
64	41.2	45.1	67.7#
130	31.6	26.2	39.4

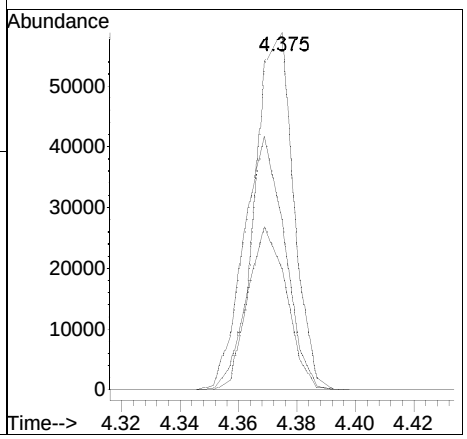


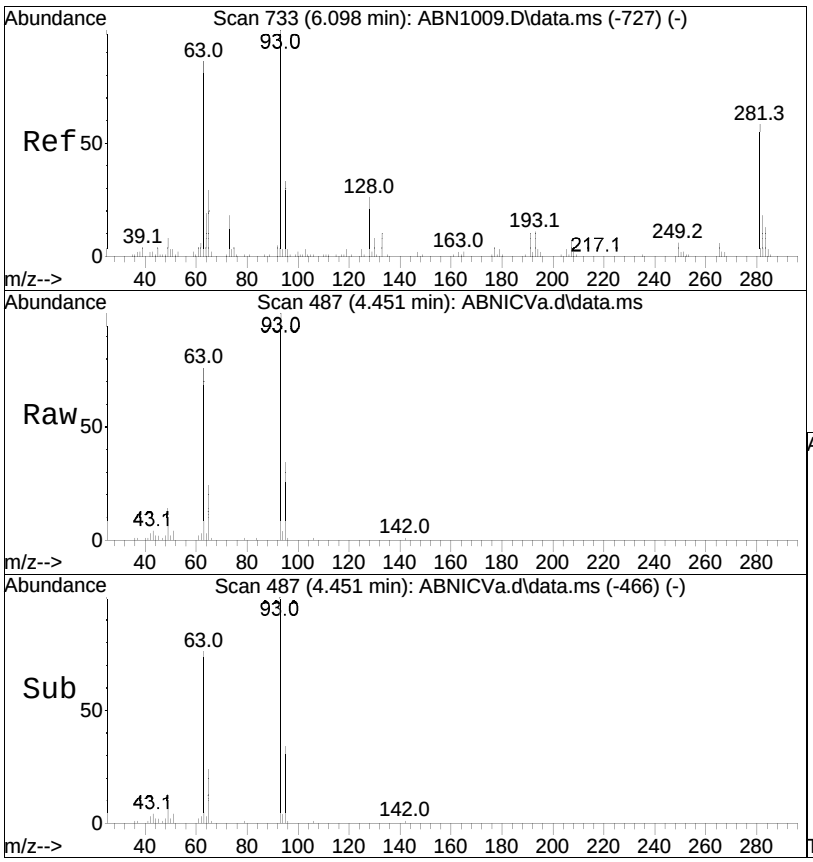


#8
Phenol
Concen: 5.08 ug/ml
RT: 4.375 min Scan# 474
Delta R.T. -0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion: 94 Resp: 52922

Ion	Ratio	Lower	Upper
94	100		
65	48.3	26.0	39.0#
66	77.3	33.8	50.8#

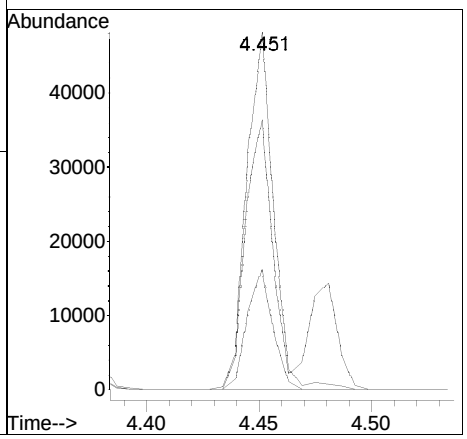


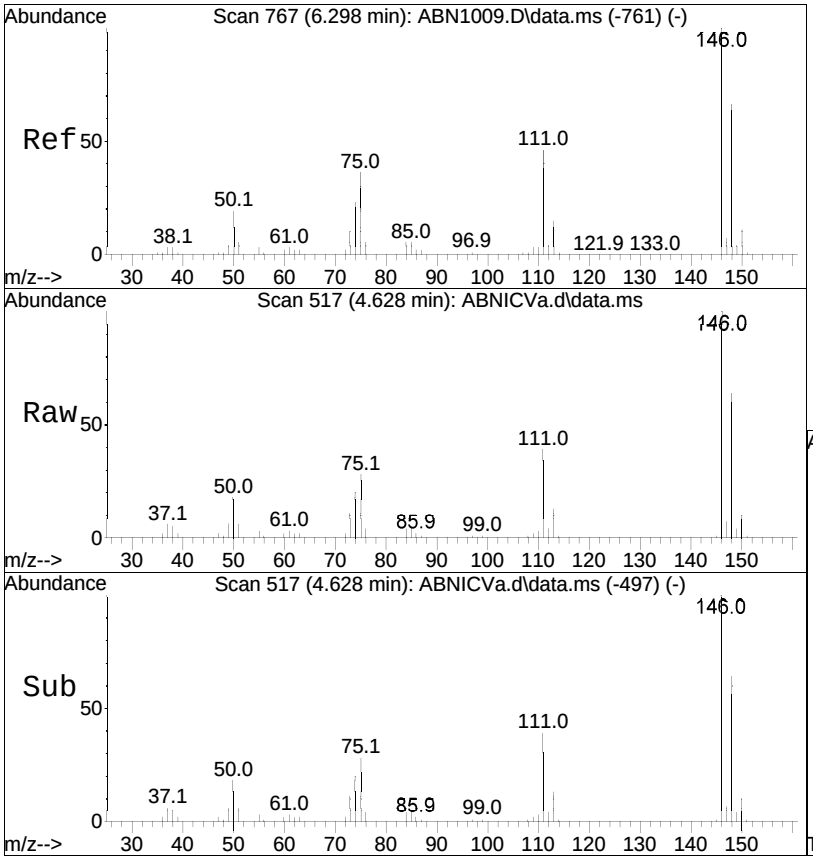


#9
Bis(2-chloroethyl)ether
Concen: 5.16 ug/ml
RT: 4.451 min Scan# 487
Delta R.T. 0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion: 93 Resp: 39508

Ion	Ratio	Lower	Upper
93	100		
63	76.1	74.6	111.8
95	32.4	25.9	38.9

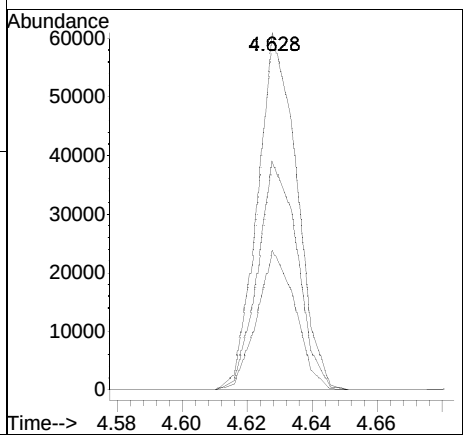


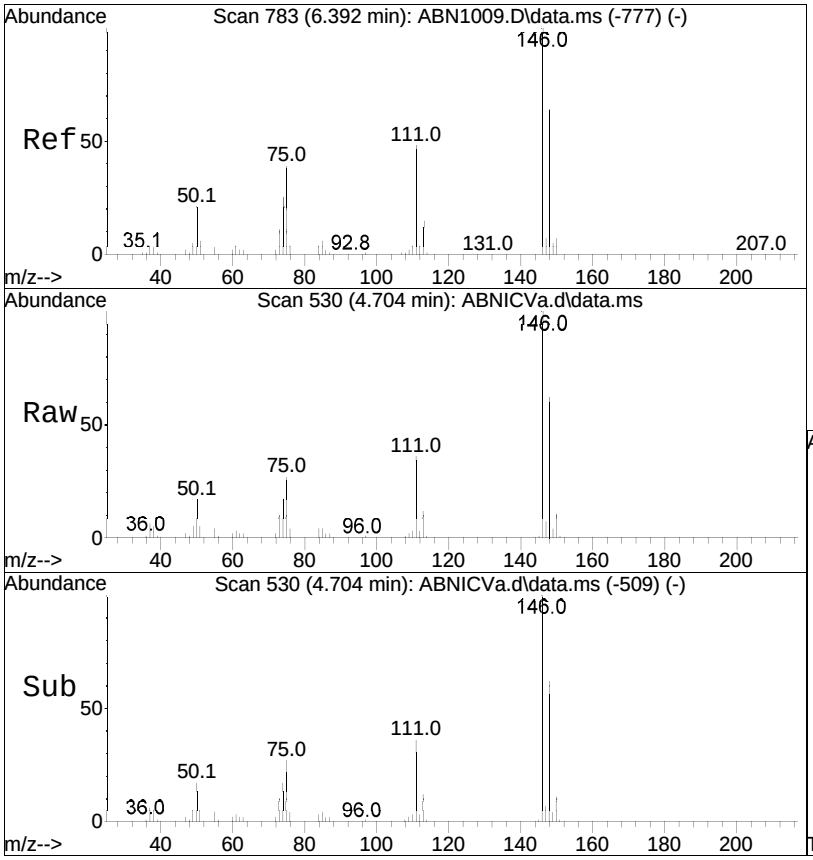


#10
1,3-Dichlorobenzene
Concen: 5.13 ug/ml
RT: 4.628 min Scan# 517
Delta R.T. -0.006 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:146 Resp: 50766

Ion	Ratio	Lower	Upper
146	100		
111	38.4	34.3	51.5
148	64.9	50.8	76.2

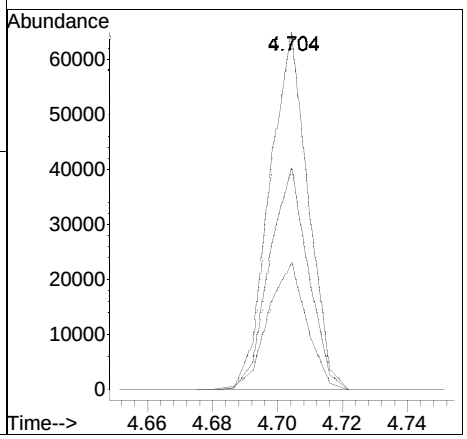


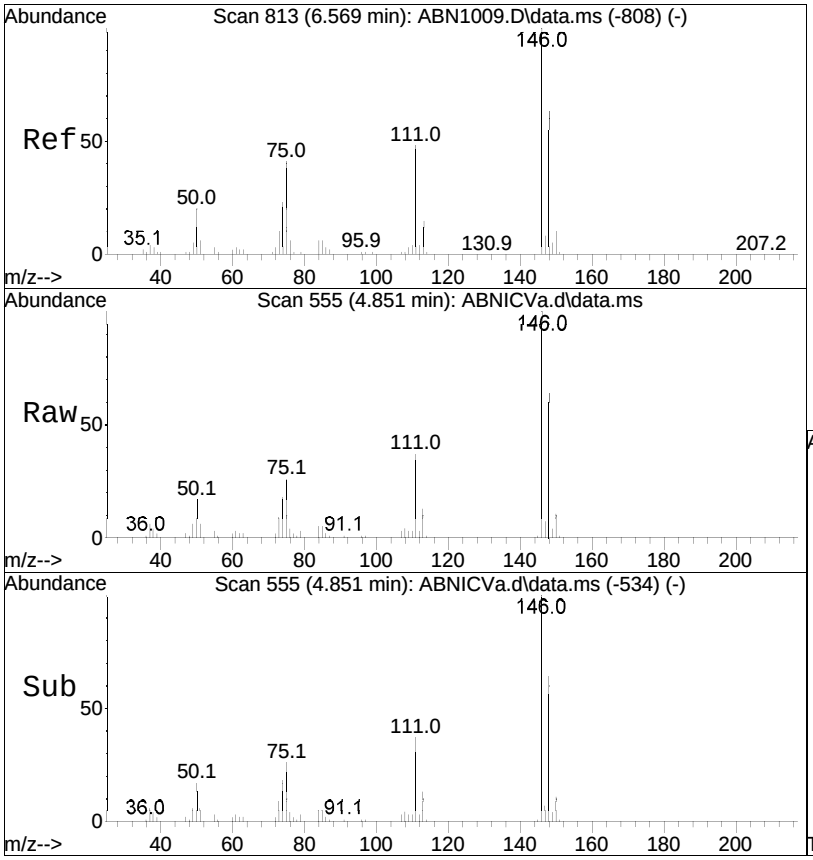


#11
1,4-Dichlorobenzene
Concen: 5.30 ug/ml
RT: 4.704 min Scan# 530
Delta R.T. 0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:146 Resp: 52975

Ion	Ratio	Lower	Upper
146	100		
148	62.8	50.7	76.1
111	36.4	33.4	50.0

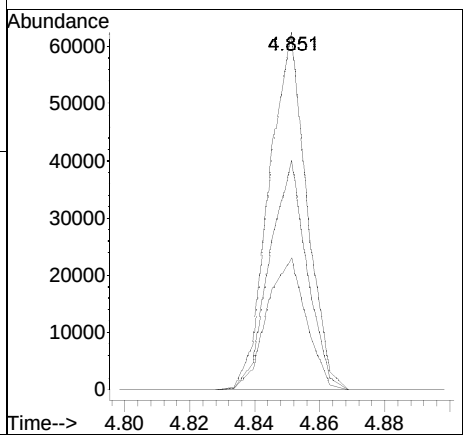


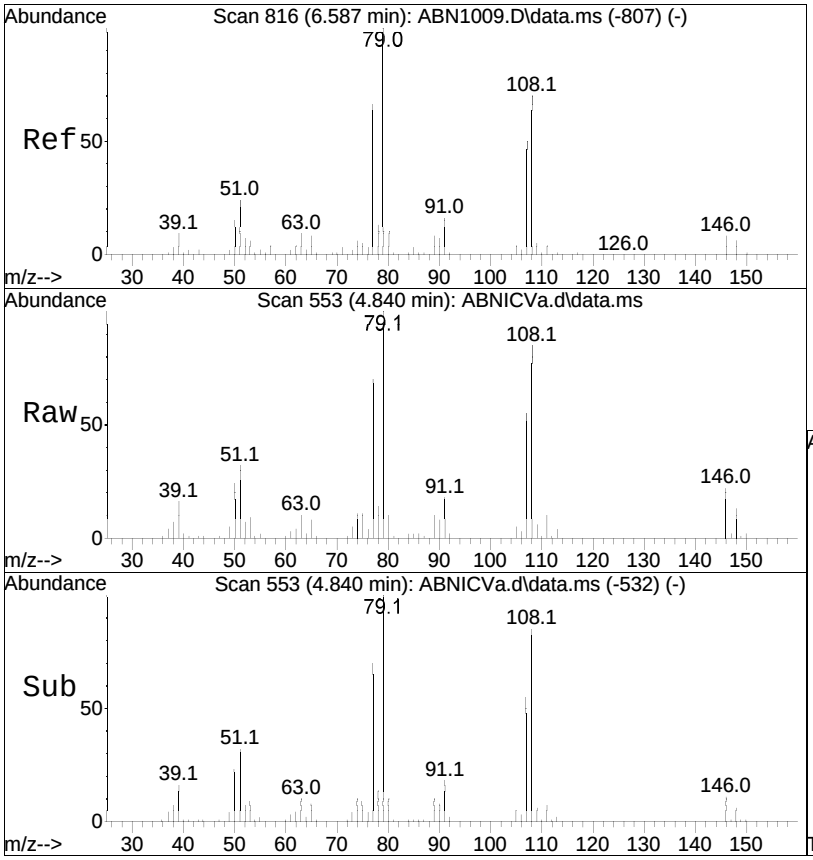


#12
1,2-Dichlorobenzene
Concen: 5.13 ug/ml
RT: 4.851 min Scan# 555
Delta R.T. 0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:146 Resp: 49748

Ion	Ratio	Lower	Upper
146	100		
111	38.8	34.6	52.0
148	63.9	50.2	75.4

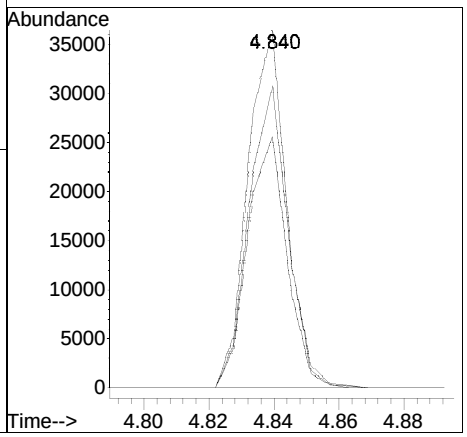


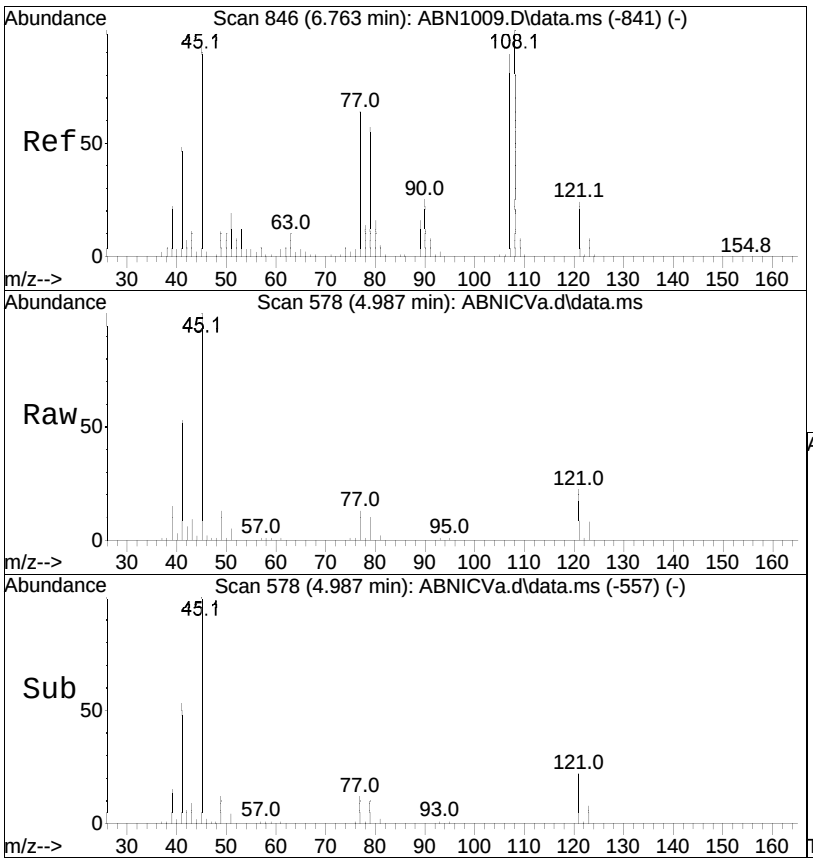


#13
Benzyl alcohol
Concen: 4.85 ug/ml
RT: 4.840 min Scan# 553
Delta R.T. -0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion: 79 Resp: 29866

Ion	Ratio	Lower	Upper
79	100		
77	72.1	54.9	82.3
108	85.9	63.1	94.7

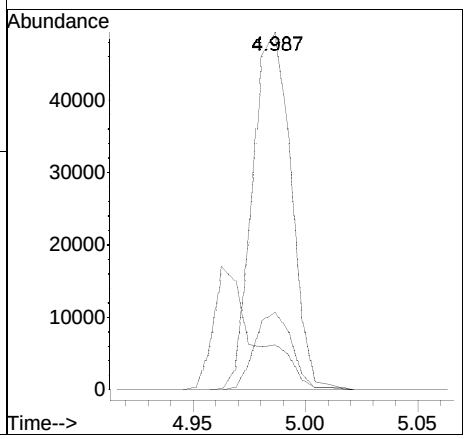


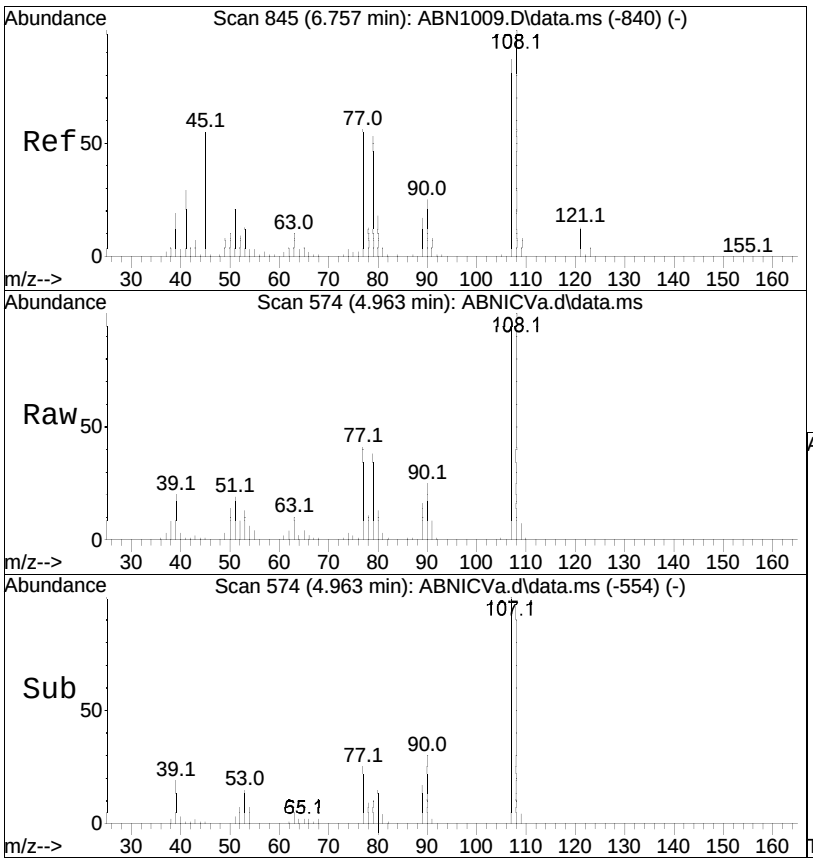


#14
Bis(2-chloroisopropyl)ether
Concen: 5.07 ug/ml
RT: 4.987 min Scan# 578
Delta R.T. -0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion: 45 Resp: 58579

Ion	Ratio	Lower	Upper
45	100		
121	21.2	9.8	14.6#
77	38.2	6.1	9.1#

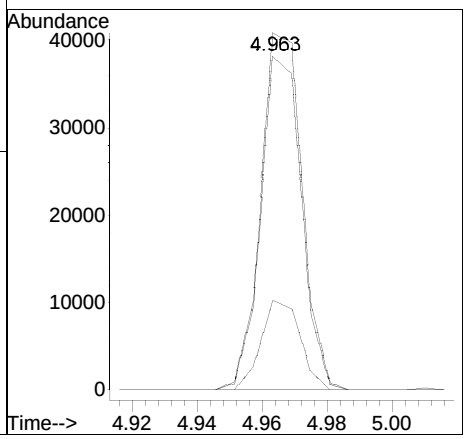


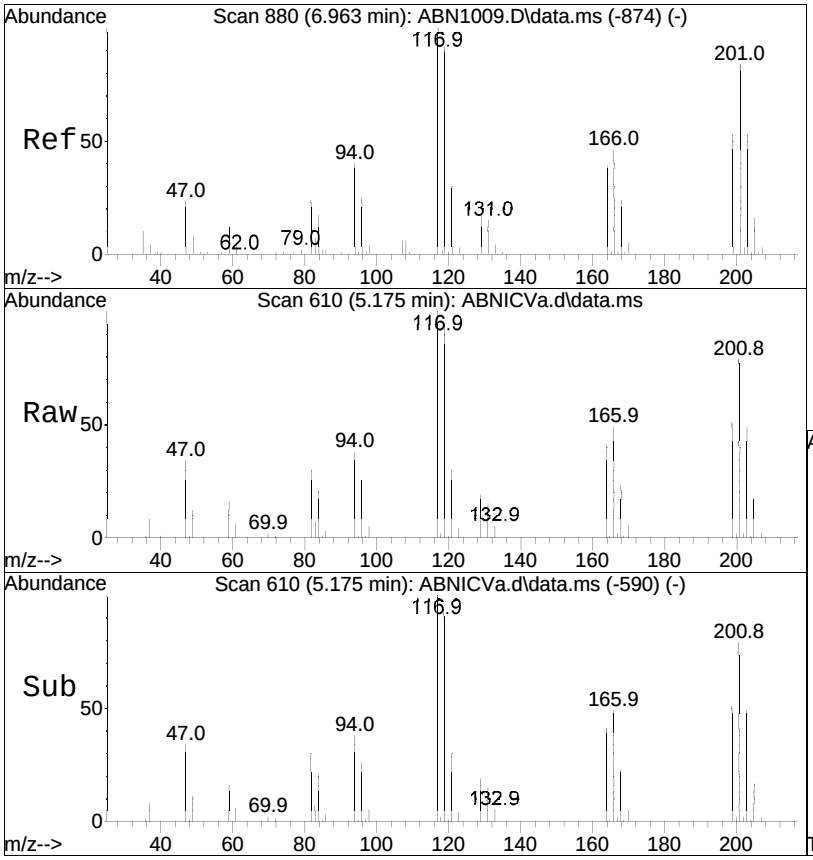


#15
2-Methylphenol
Concen: 5.04 ug/ml
RT: 4.963 min Scan# 574
Delta R.T. -0.006 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:108 Resp: 36119

Ion	Ratio	Lower	Upper
108	100		
107	91.7	70.7	106.1
90	23.7	18.7	28.1

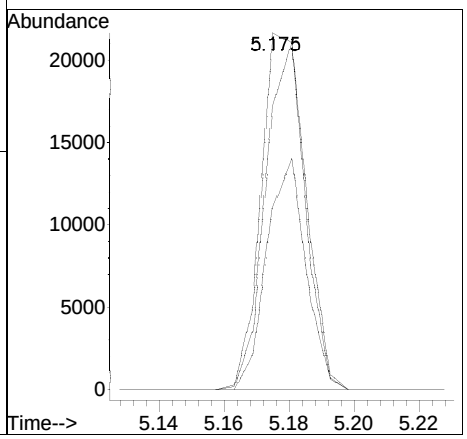


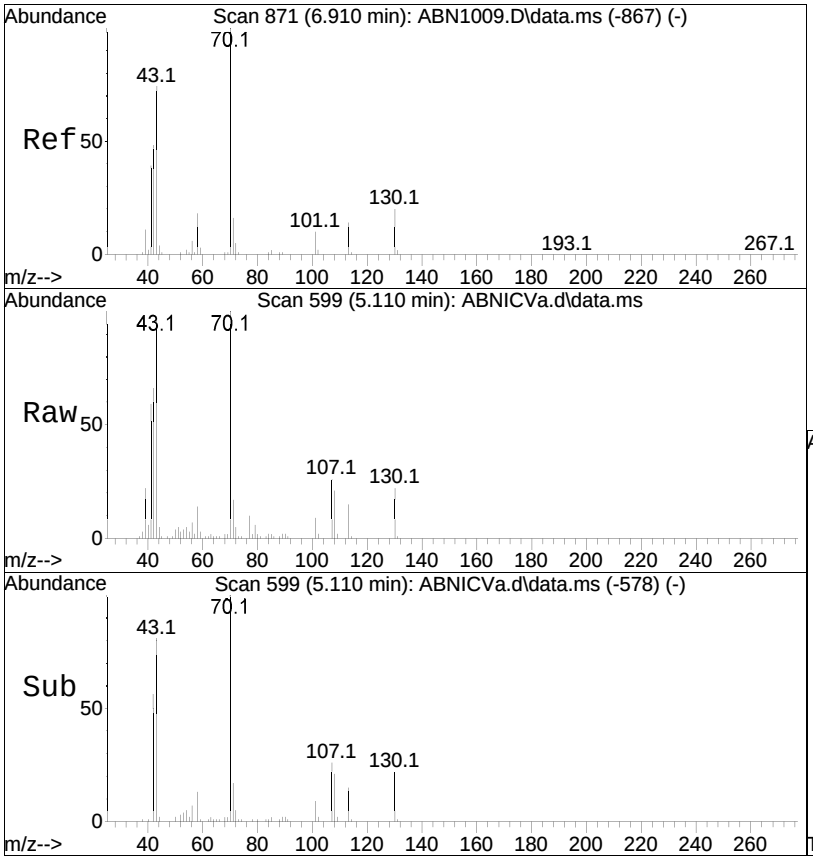


#16
Hexachloroethane
Concen: 5.20 ug/ml
RT: 5.175 min Scan# 610
Delta R.T. -0.006 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:117 Resp: 19876

Ion	Ratio	Lower	Upper
117	100		
201	92.3	58.6	87.8#
199	59.1	36.9	55.3#

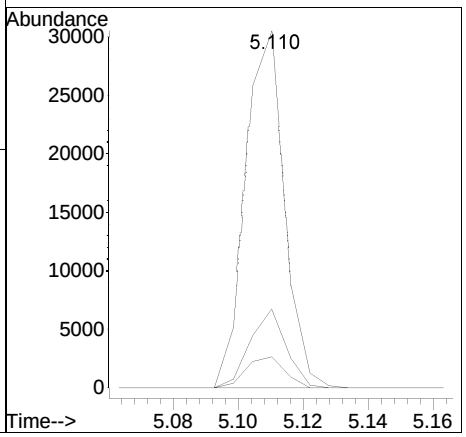


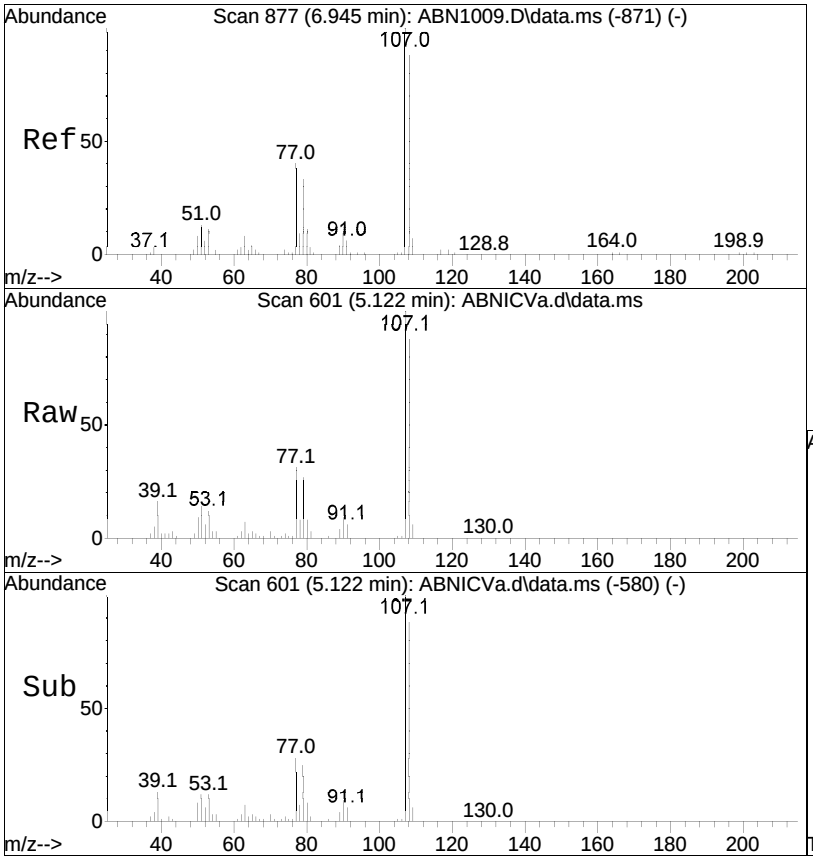


#17
n-Nitrosodi-n-propylamine
Concen: 4.68 ug/ml
RT: 5.110 min Scan# 599
Delta R.T. 0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion: 70 Resp: 25312

Ion	Ratio	Lower	Upper
70	100		
130	20.4	18.2	27.4
101	8.6	7.8	11.8

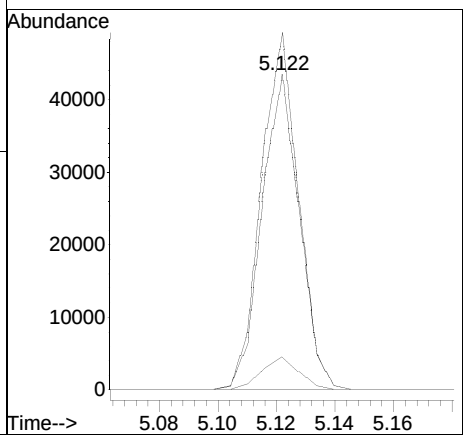


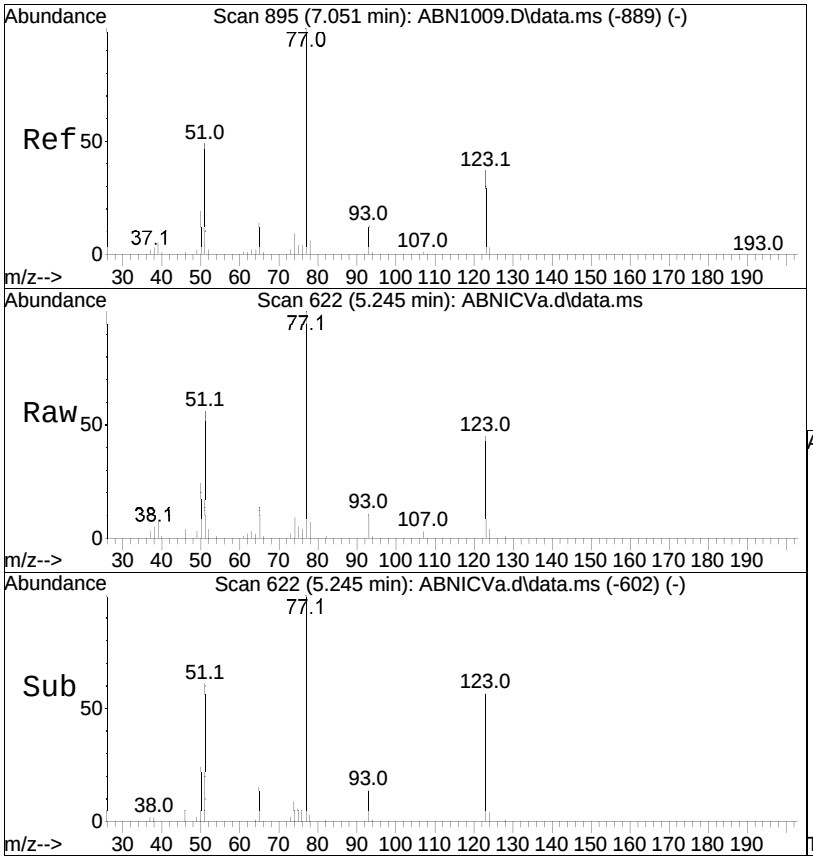


#18
3-Methylphenol/4-Methylphenol
Concen: 5.08 ug/ml
RT: 5.122 min Scan# 601
Delta R.T. -0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:108 Resp: 38628

Ion	Ratio	Lower	Upper
108	100		
107	112.6	88.6	132.8
90	10.3	8.8	13.2

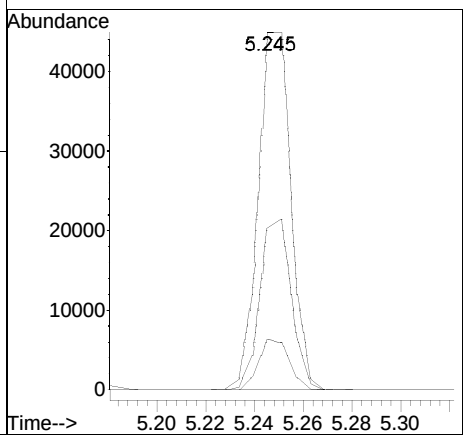


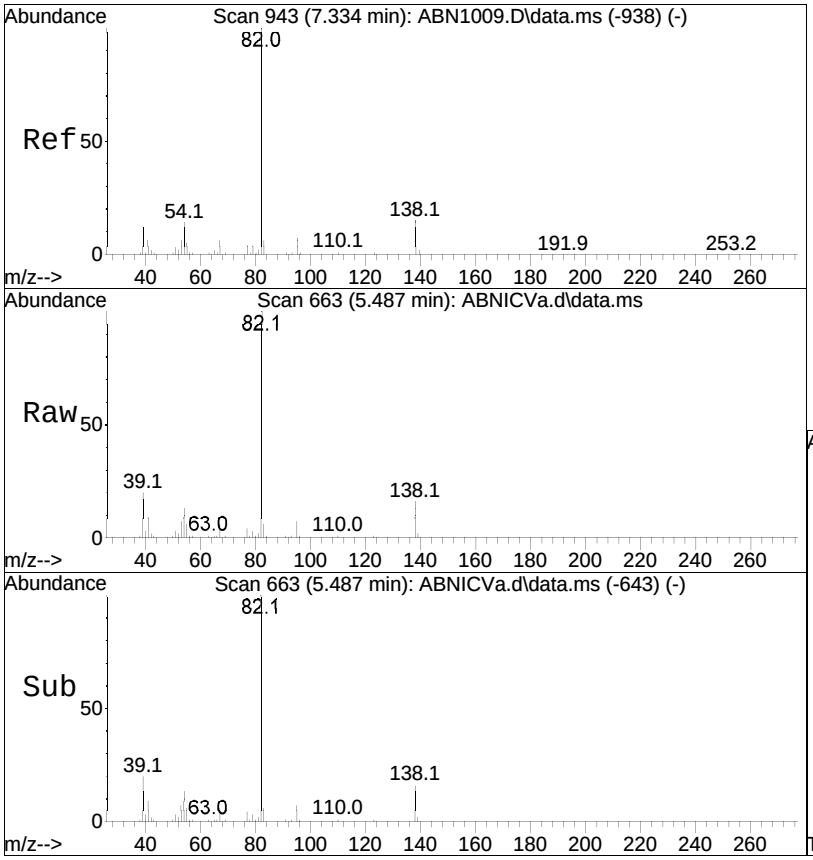


#20
Nitrobenzene
Concen: 5.01 ug/ml
RT: 5.245 min Scan# 622
Delta R.T. -0.006 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion: 77 Resp: 41565

Ion	Ratio	Lower	Upper
77	100		
123	46.0	36.3	54.5
65	13.5	11.6	17.4

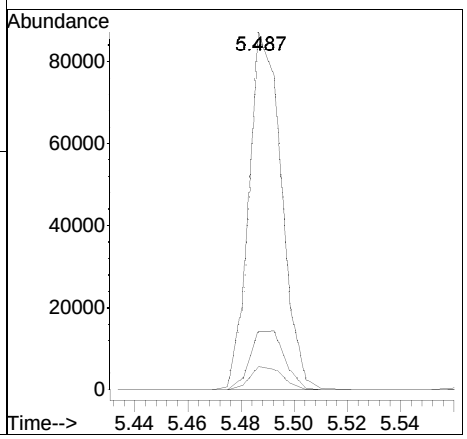


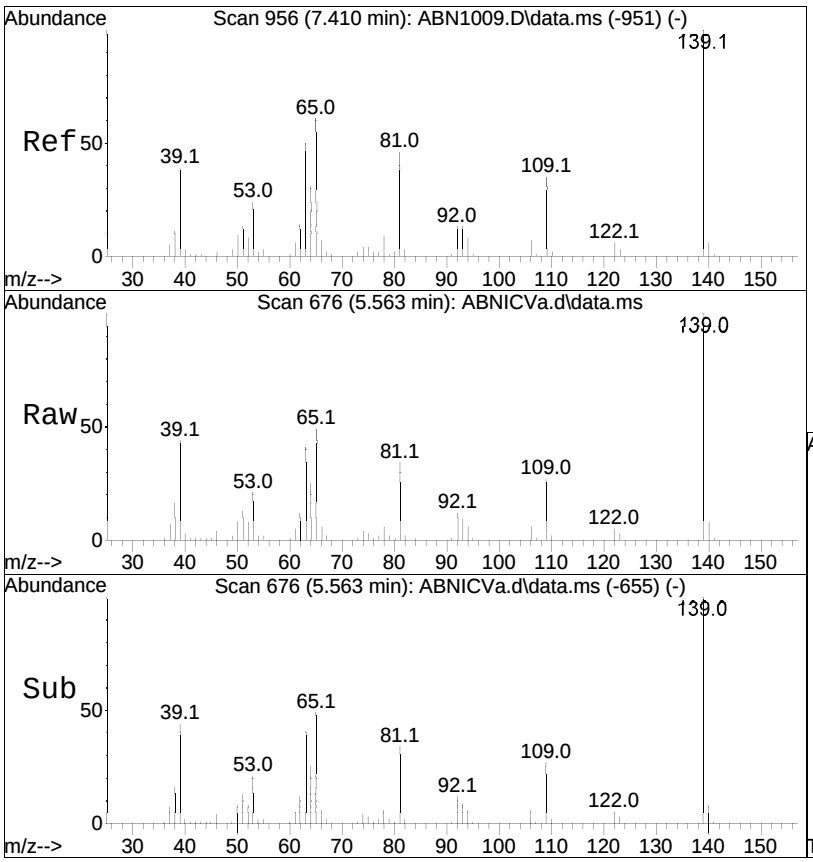


#21
Isophorone
Concen: 5.00 ug/ml
RT: 5.487 min Scan# 663
Delta R.T. -0.006 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion: 82 Resp: 73567

Ion	Ratio	Lower	Upper
82	100		
138	17.5	14.7	22.1
95	6.6	5.2	7.8

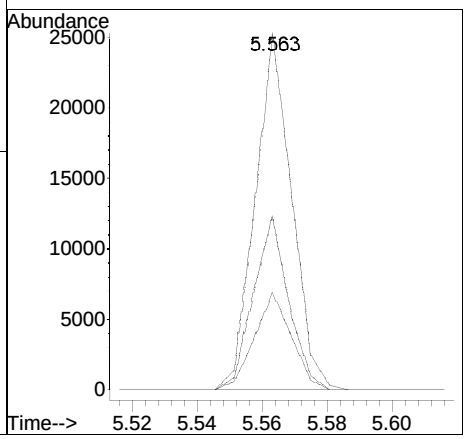


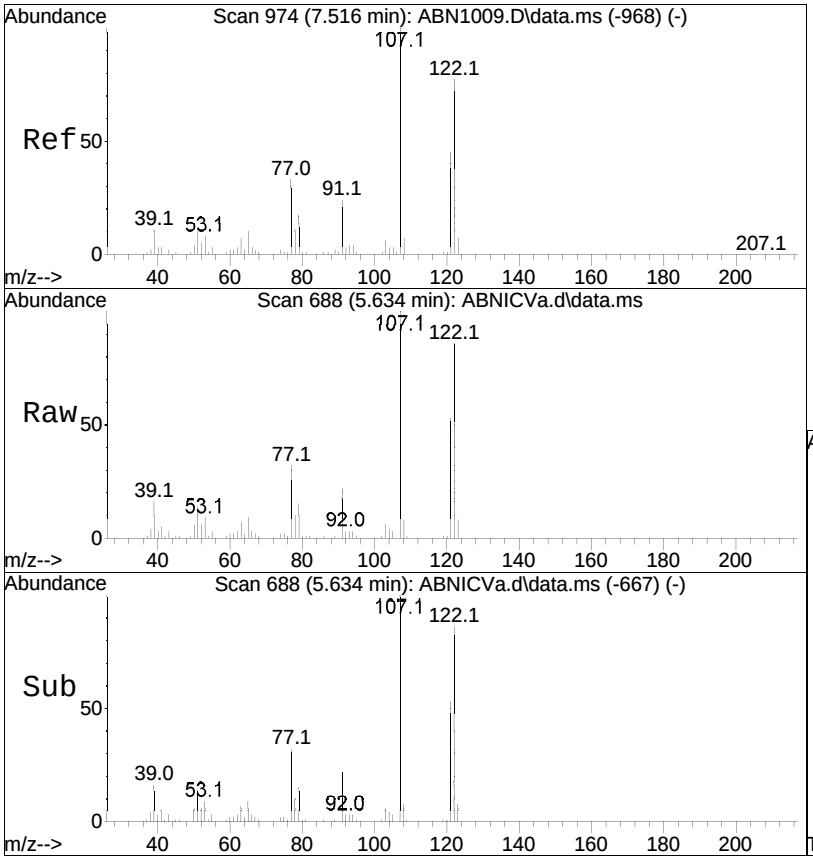


#22
2-Nitrophenol
Concen: 4.54 ug/ml
RT: 5.563 min Scan# 676
Delta R.T. 0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:139 Resp: 19461

Ion	Ratio	Lower	Upper
139	100		
109	28.0	19.4	29.0
65	47.4	46.1	69.1

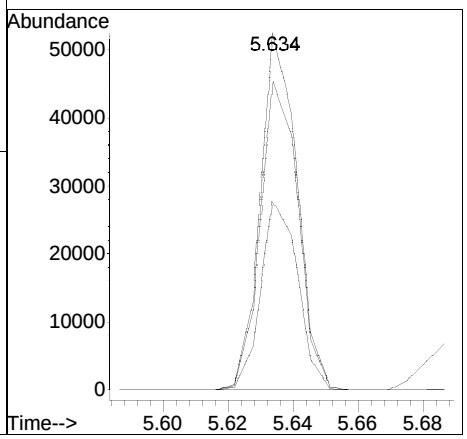


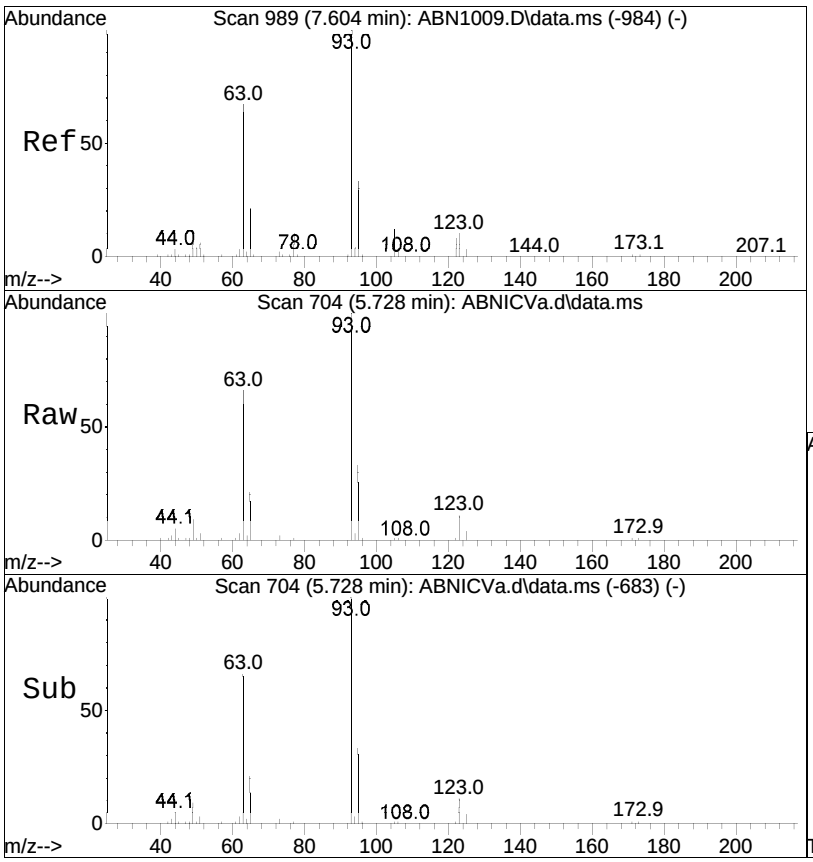


#23
2,4-Dimethylphenol
Concen: 5.02 ug/ml
RT: 5.634 min Scan# 688
Delta R.T. -0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:107 Resp: 40934

Ion	Ratio	Lower	Upper
107	100		
121	53.5	40.0	60.0
122	89.0	70.2	105.4

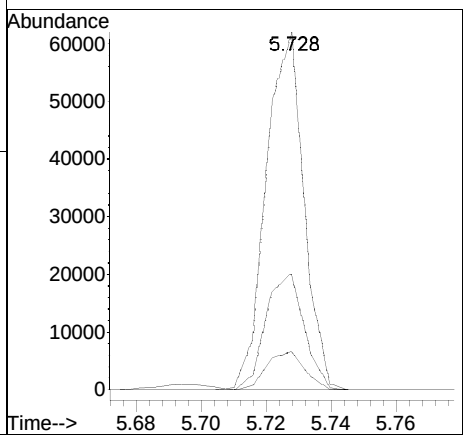


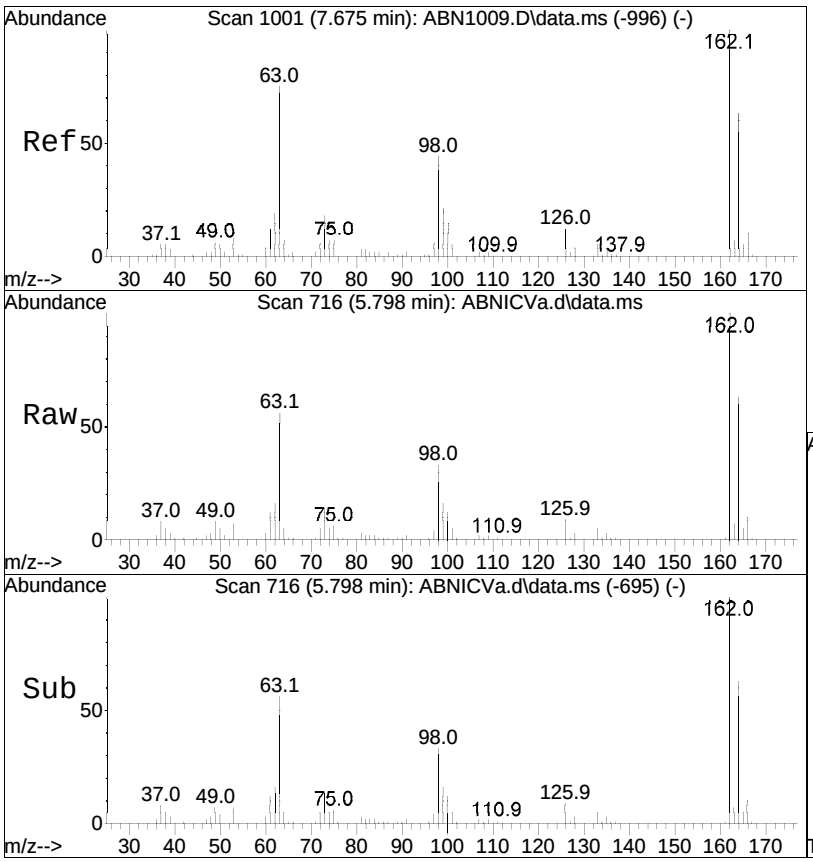


#24
Bis(2-chloroethoxy)methane
Concen: 4.87 ug/ml
RT: 5.728 min Scan# 704
Delta R.T. -0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion: 93 Resp: 49331

Ion	Ratio	Lower	Upper
93	100		
95	33.2	25.8	38.8
123	11.0	10.1	15.1

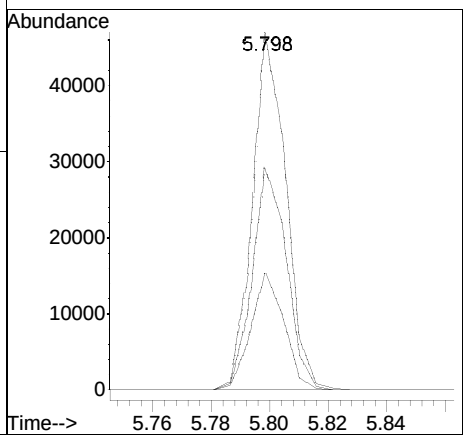


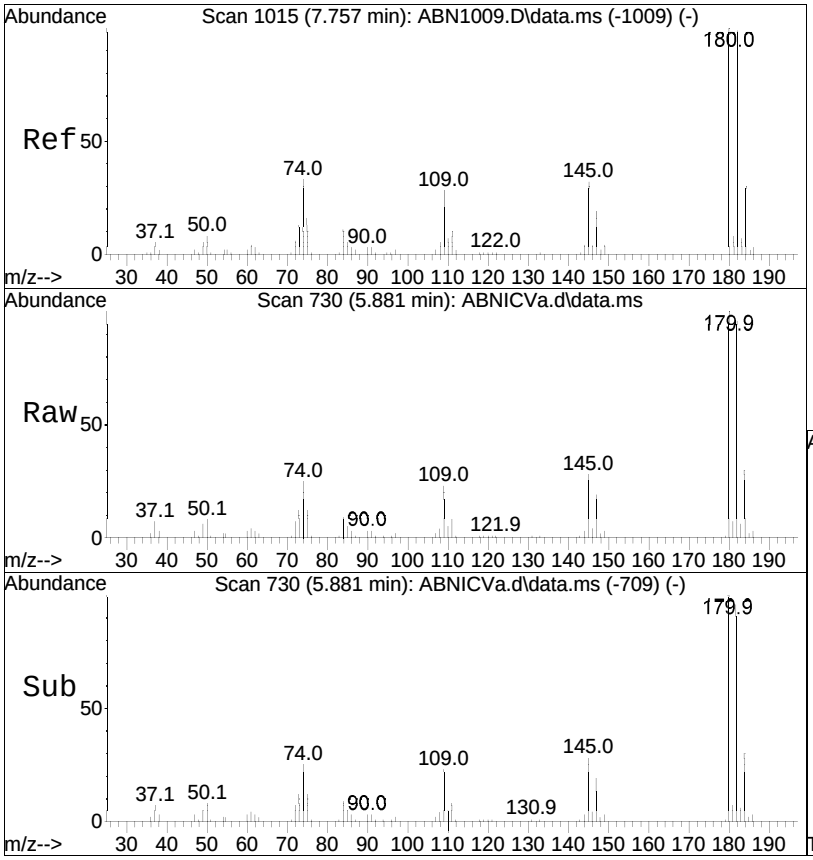


#25
2,4-Dichlorophenol
Concen: 5.05 ug/ml
RT: 5.798 min Scan# 716
Delta R.T. 0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:162 Resp: 36794

Ion	Ratio	Lower	Upper
162	100		
164	63.9	51.0	76.4
98	32.6	32.2	48.2

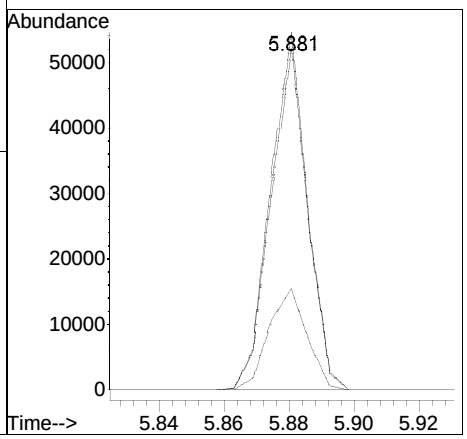


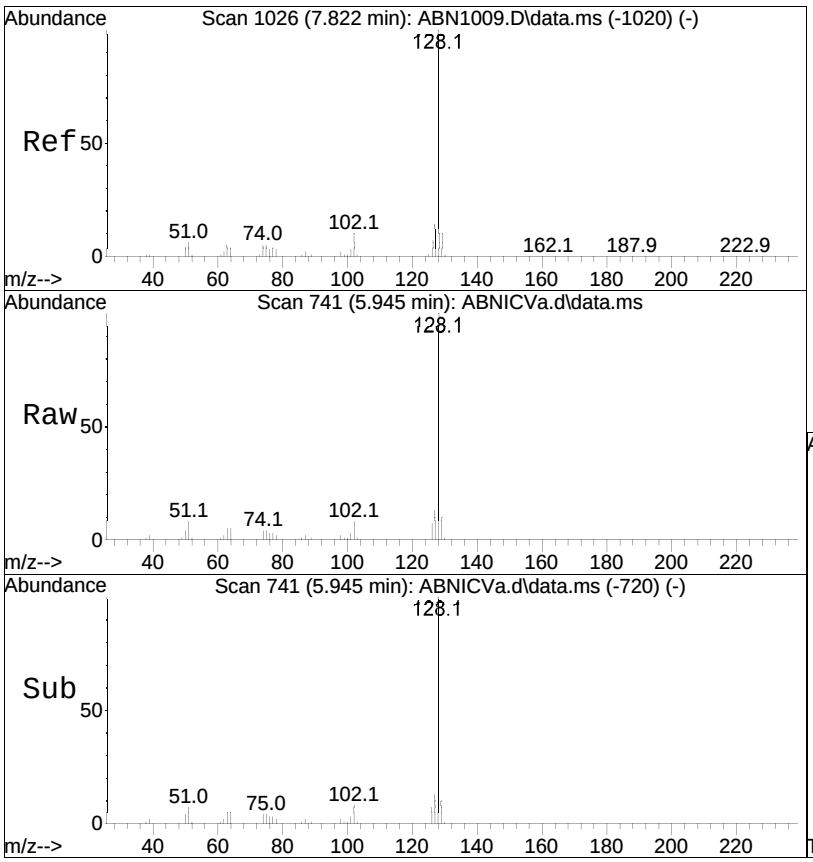


#26
1,2,4-Trichlorobenzene
Concen: 5.04 ug/ml
RT: 5.881 min Scan# 730
Delta R.T. -0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:180 Resp: 42420

Ion	Ratio	Lower	Upper
180	100		
182	94.8	76.0	114.0
145	29.4	25.7	38.5

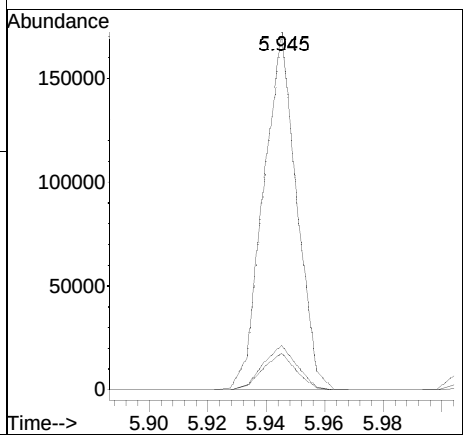


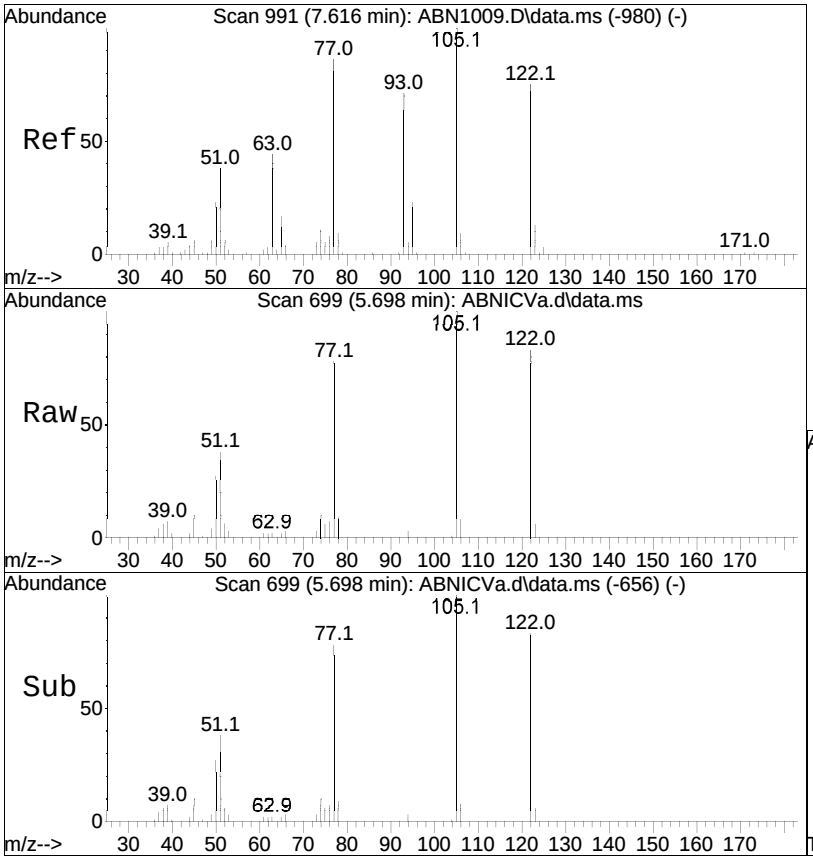


#35
Naphthalene
Concen: 4.87 ug/ml
RT: 5.945 min Scan# 741
Delta R.T. 0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:128 Resp: 133480

Ion	Ratio	Lower	Upper
128	100		
129	10.4	8.7	13.1
127	12.9	10.3	15.5

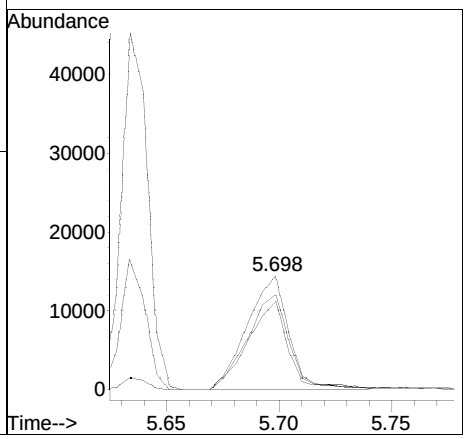


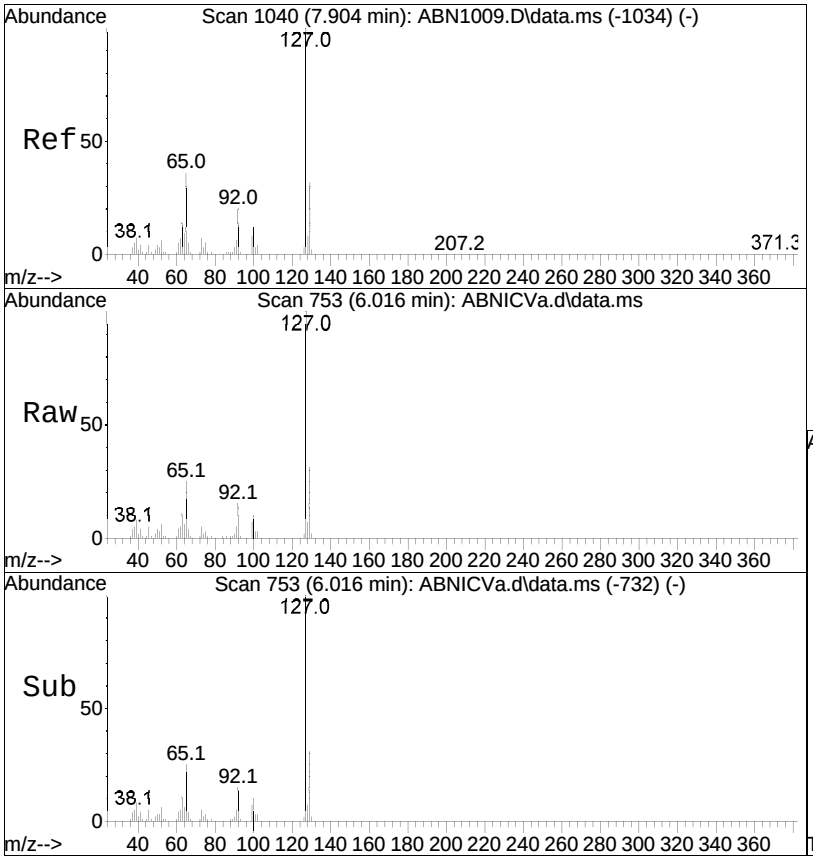


#36
Benzoic Acid
Concen: 4.03 ug/ml
RT: 5.698 min Scan# 699
Delta R.T. 0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:105 Resp: 18961

Ion	Ratio	Lower	Upper
105	100		
122	85.0	59.9	89.9
77	76.5	60.1	90.1

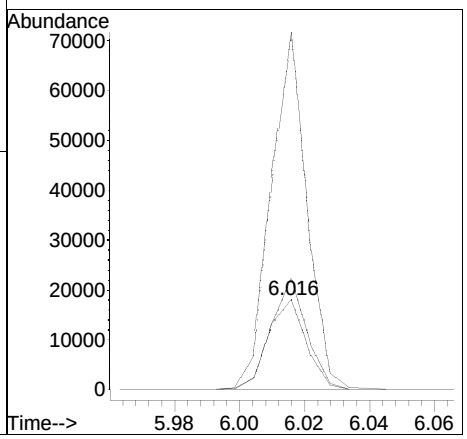


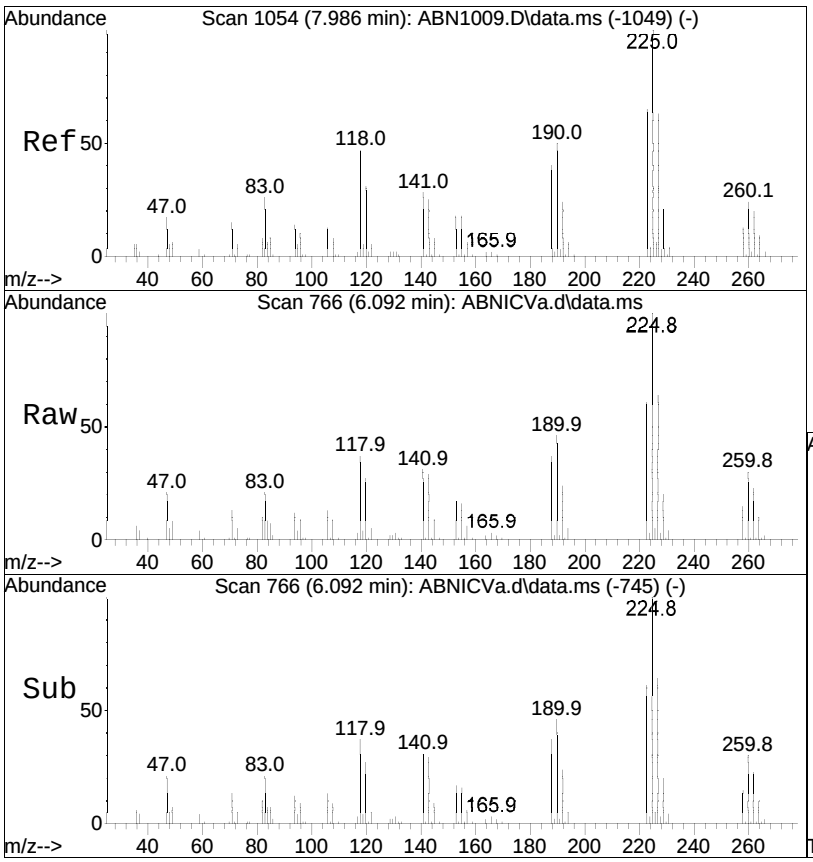


#37
4-Chloroaniline
Concen: 4.71 ug/ml
RT: 6.016 min Scan# 753
Delta R.T. -0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion: 65 Resp: 14687

Ion	Ratio	Lower	Upper
65	100		
127	370.7	237.6	356.4#
129	115.6	76.3	114.5#

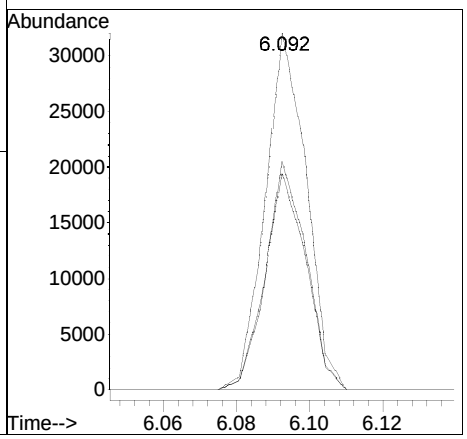


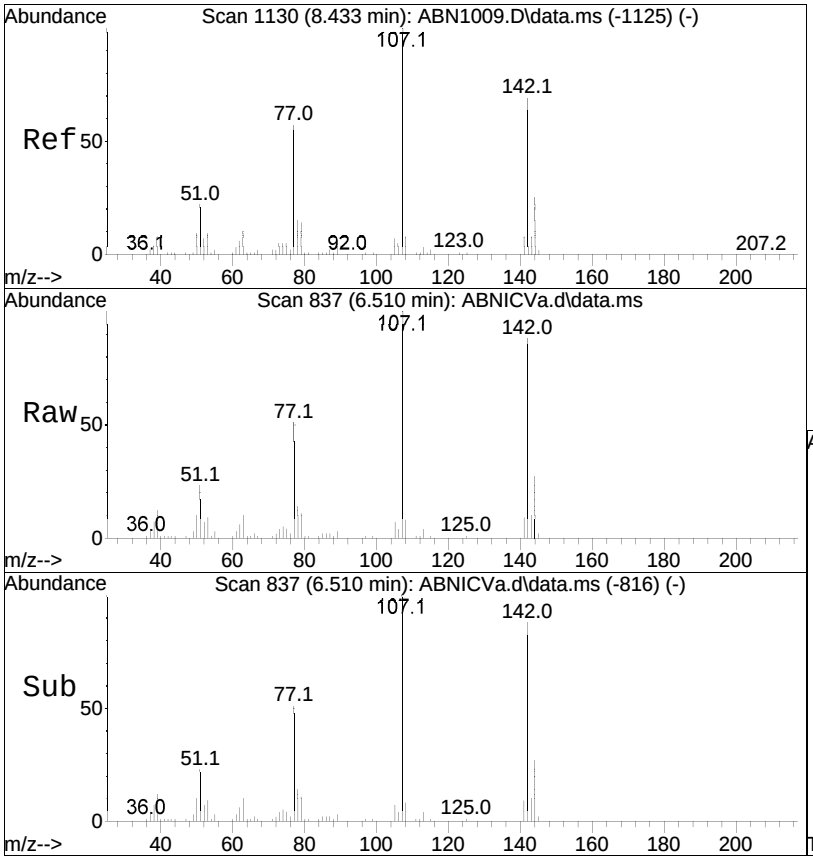


#38
Hexachlorobutadiene
Concen: 4.92 ug/ml
RT: 6.092 min Scan# 766
Delta R.T. -0.001 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:225 Resp: 24941

Ion	Ratio	Lower	Upper
225	100		
223	61.2	50.3	75.5
227	63.1	52.2	78.2

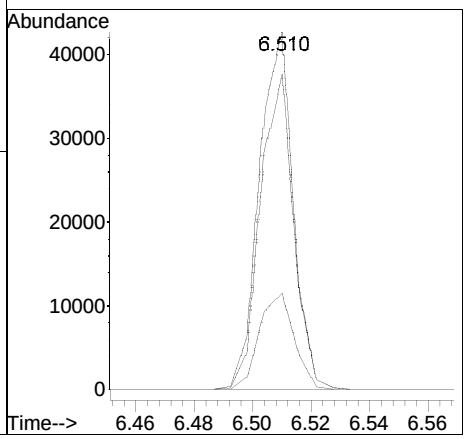


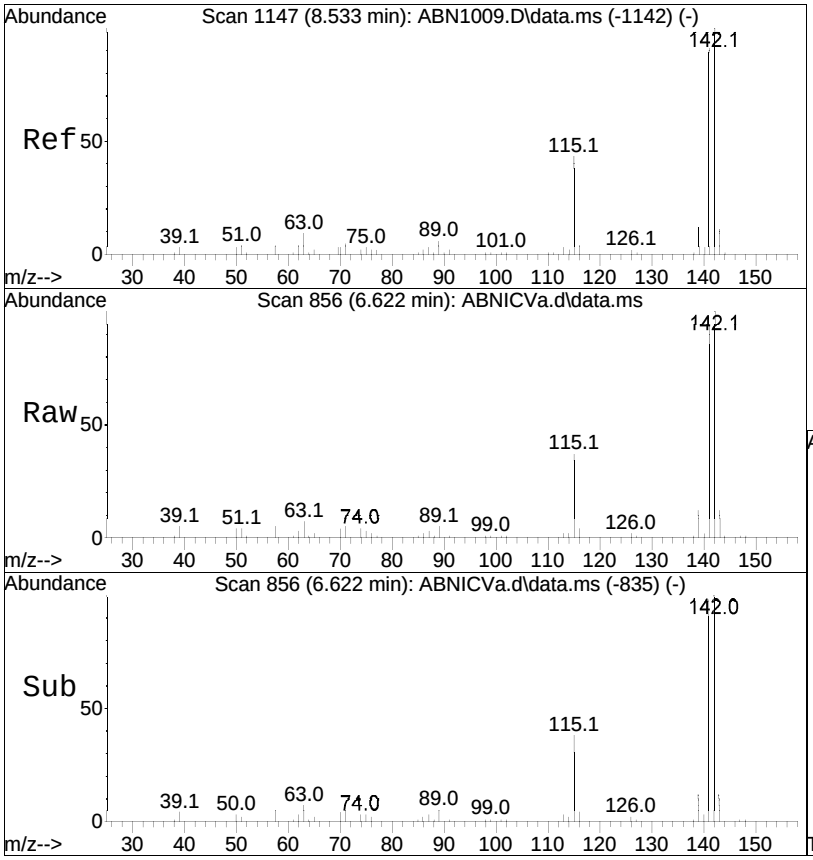


#39
p-Chloro-m-cresol
Concen: 4.74 ug/ml
RT: 6.510 min Scan# 837
Delta R.T. 0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:107 Resp: 33949

Ion	Ratio	Lower	Upper
107	100		
144	27.9	20.9	31.3
142	86.7	66.1	99.1

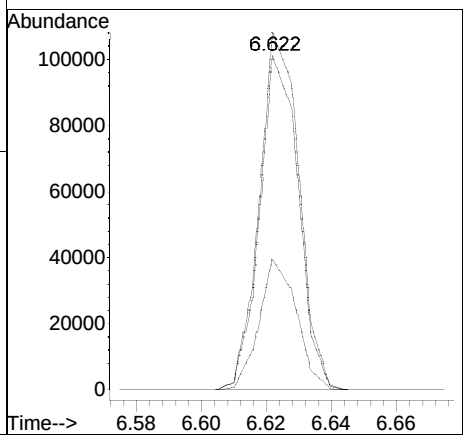


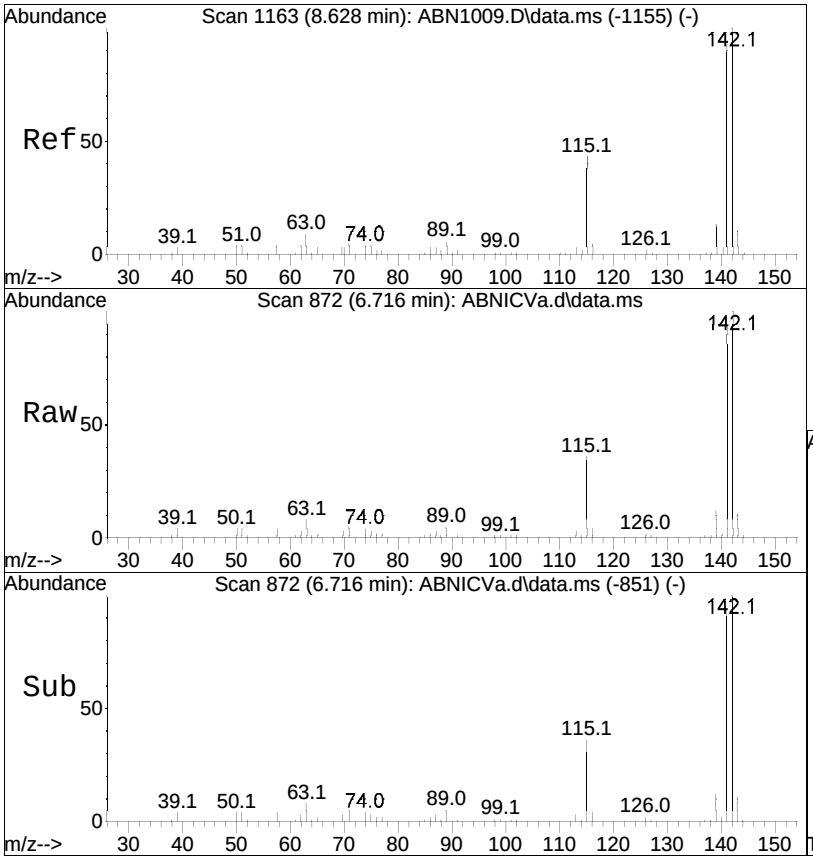


#40
2-Methylnaphthalene
Concen: 4.85 ug/ml
RT: 6.622 min Scan# 856
Delta R.T. -0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:142 Resp: 90558

Ion	Ratio	Lower	Upper
142	100		
141	91.3	69.6	104.4
115	34.8	26.6	40.0

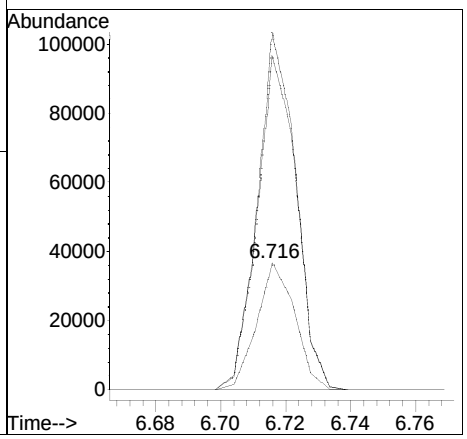


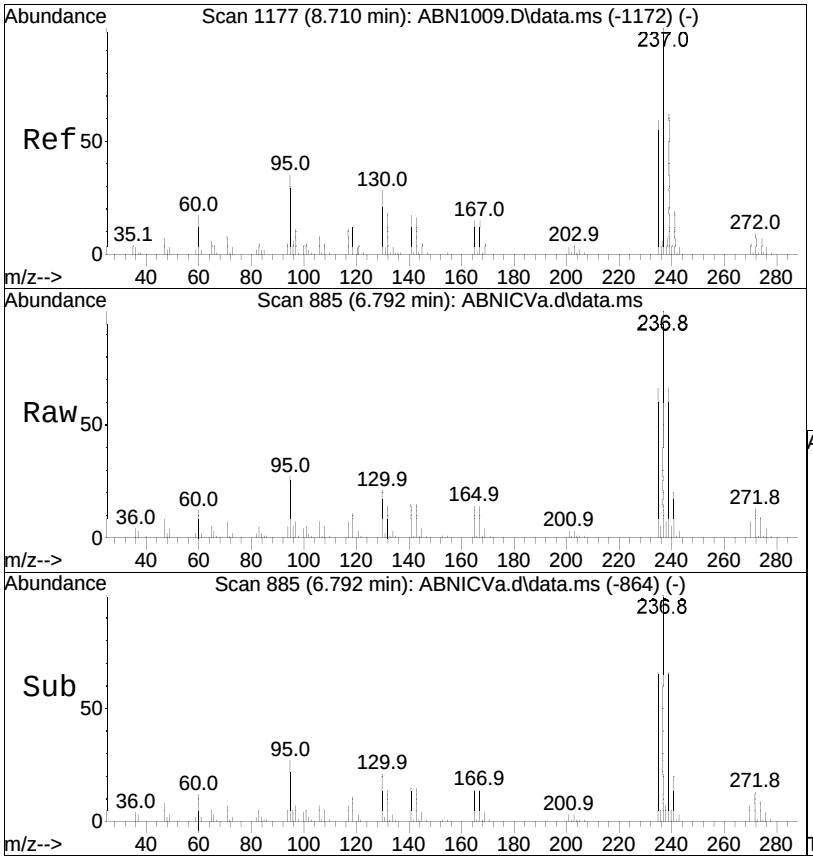


#41
1-Methylnaphthalene
Concen: 4.73 ug/ml
RT: 6.716 min Scan# 872
Delta R.T. -0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:115 Resp: 29712

Ion	Ratio	Lower	Upper
115	100		
141	268.3	207.8	311.6
142	281.2	226.8	340.2

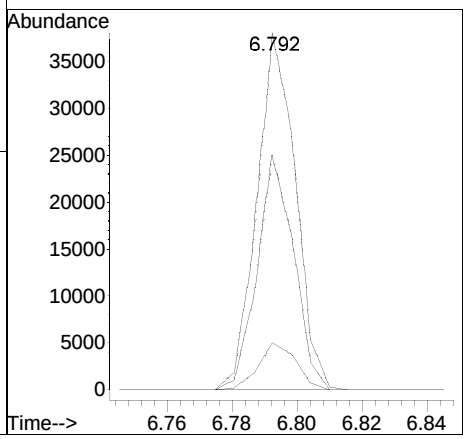


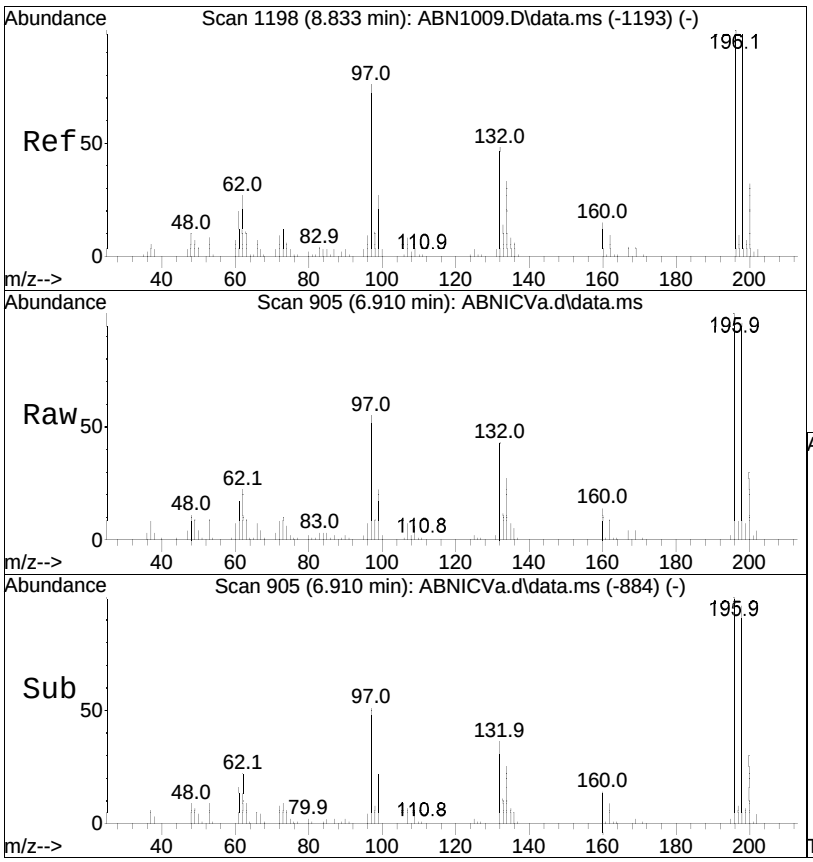


#42
Hexachlorocyclopentadiene
Concen: 4.63 ug/ml
RT: 6.792 min Scan# 885
Delta R.T. 0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:237 Resp: 31088

Ion	Ratio	Lower	Upper
237	100		
235	62.5	49.7	74.5
272	13.0	9.8	14.6

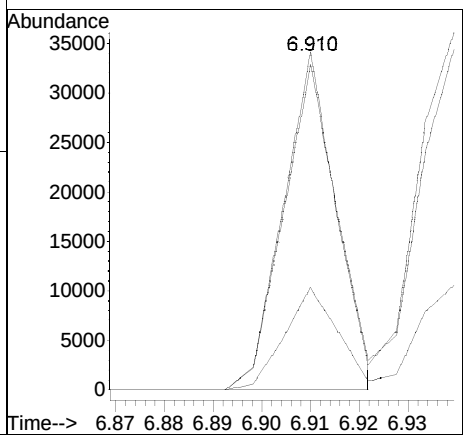


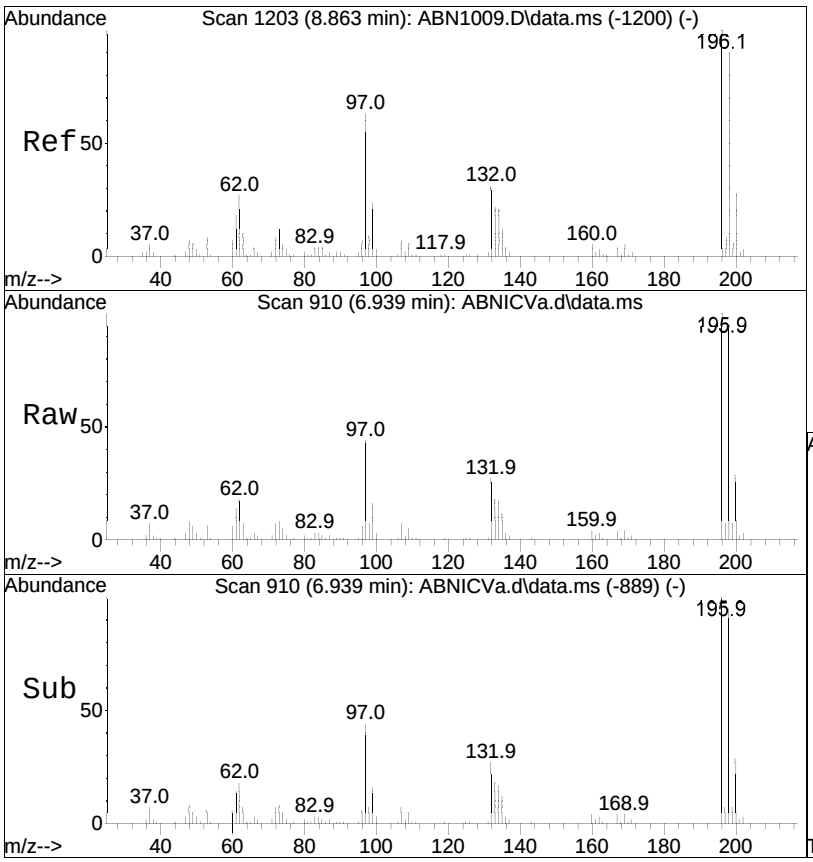


#43
2,4,6-Trichlorophenol
Concen: 4.50 ug/ml
RT: 6.910 min Scan# 905
Delta R.T. 0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:196 Resp: 25723

Ion	Ratio	Lower	Upper
196	100		
198	98.4	77.5	116.3
200	30.9	23.8	35.6

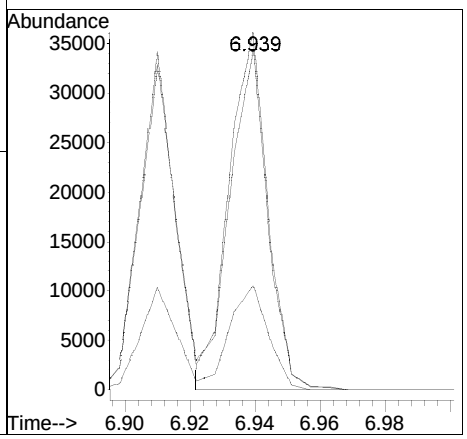


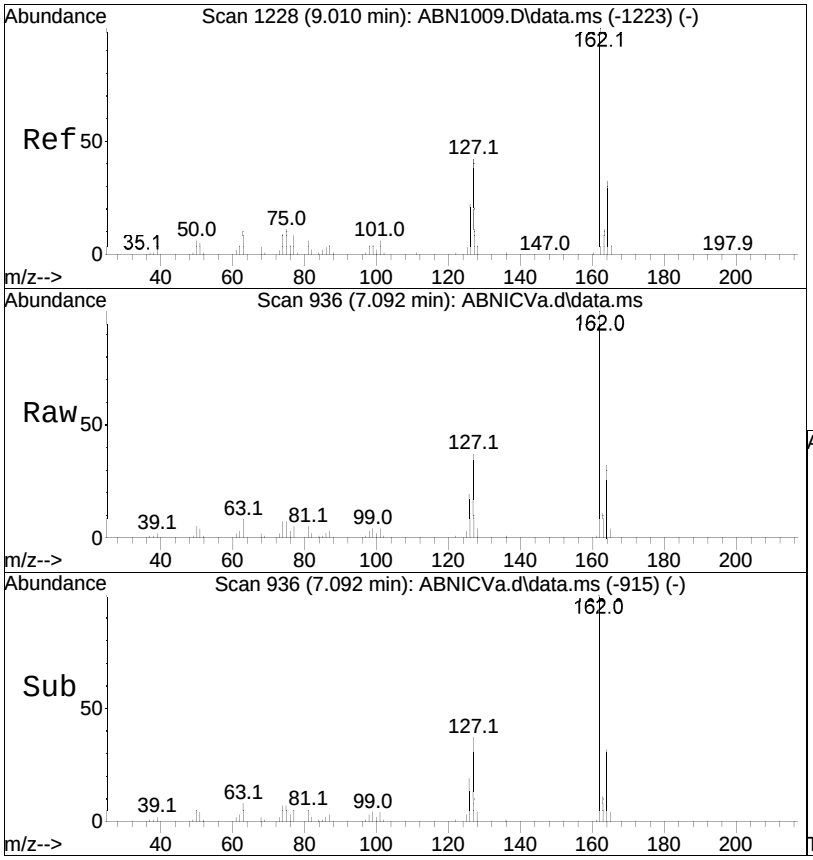


#44
2,4,5-Trichlorophenol
Concen: 4.79 ug/ml
RT: 6.939 min Scan# 910
Delta R.T. -0.001 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:196 Resp: 29673

Ion	Ratio	Lower	Upper
196	100		
200	29.4	25.4	38.0
198	92.7	78.0	117.0

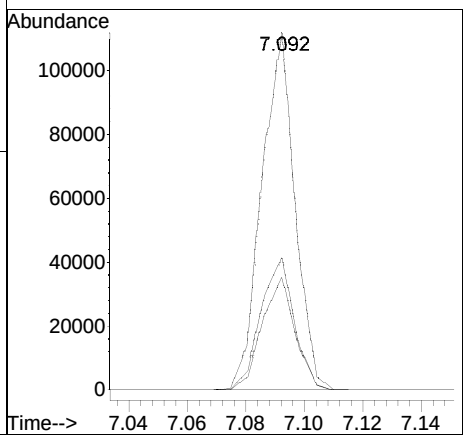


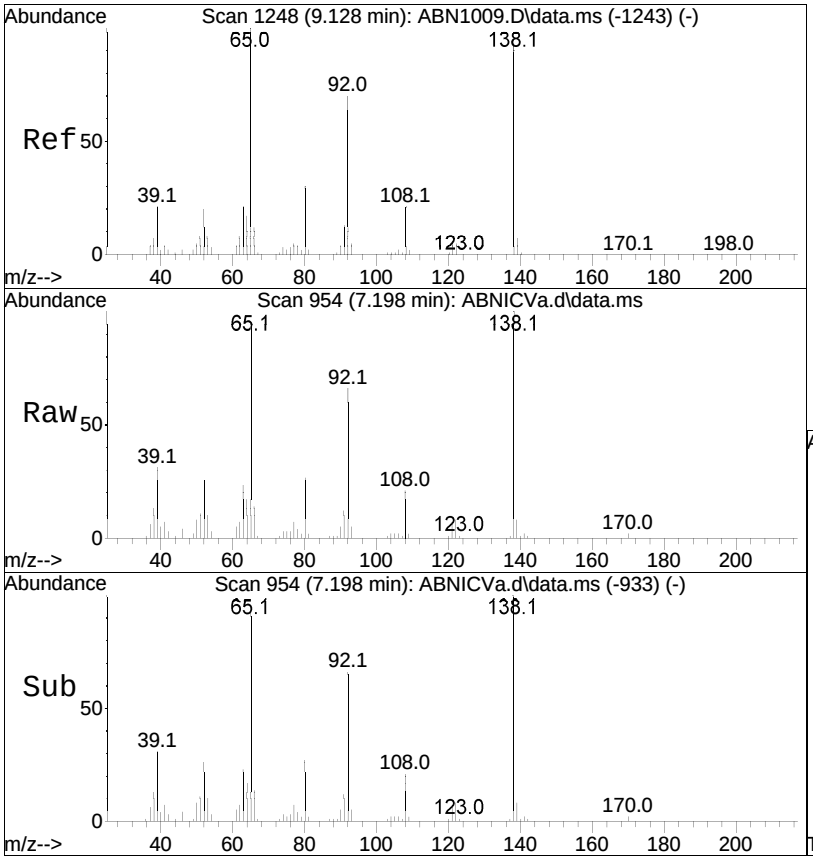


#46
2-Chloronaphthalene
Concen: 4.87 ug/ml
RT: 7.092 min Scan# 936
Delta R.T. 0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:162 Resp: 87033

Ion	Ratio	Lower	Upper
162	100		
127	37.6	32.2	48.4
164	31.4	25.7	38.5

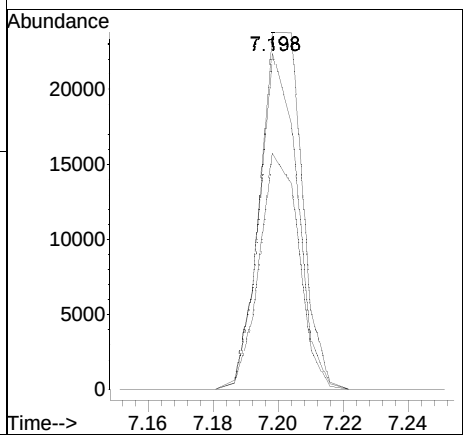


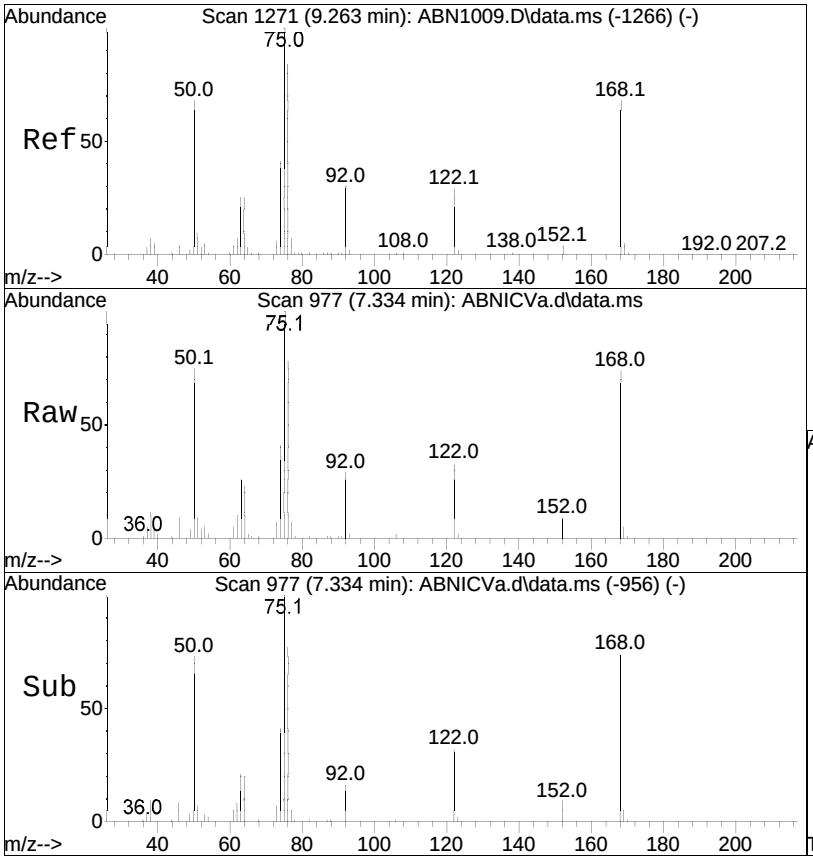


#47
2-Nitroaniline
Concen: 4.18 ug/ml
RT: 7.198 min Scan# 954
Delta R.T. 0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:138 Resp: 21250

Ion	Ratio	Lower	Upper
138	100		
92	62.2	53.5	80.3
65	84.8	86.3	129.5#

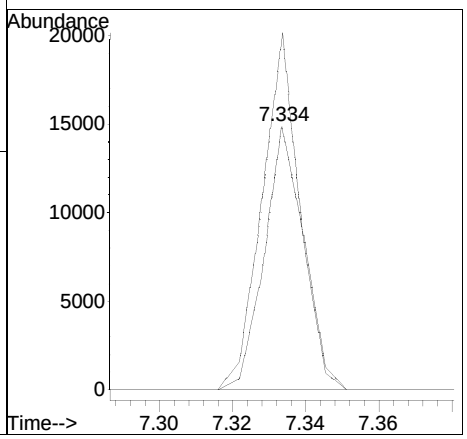


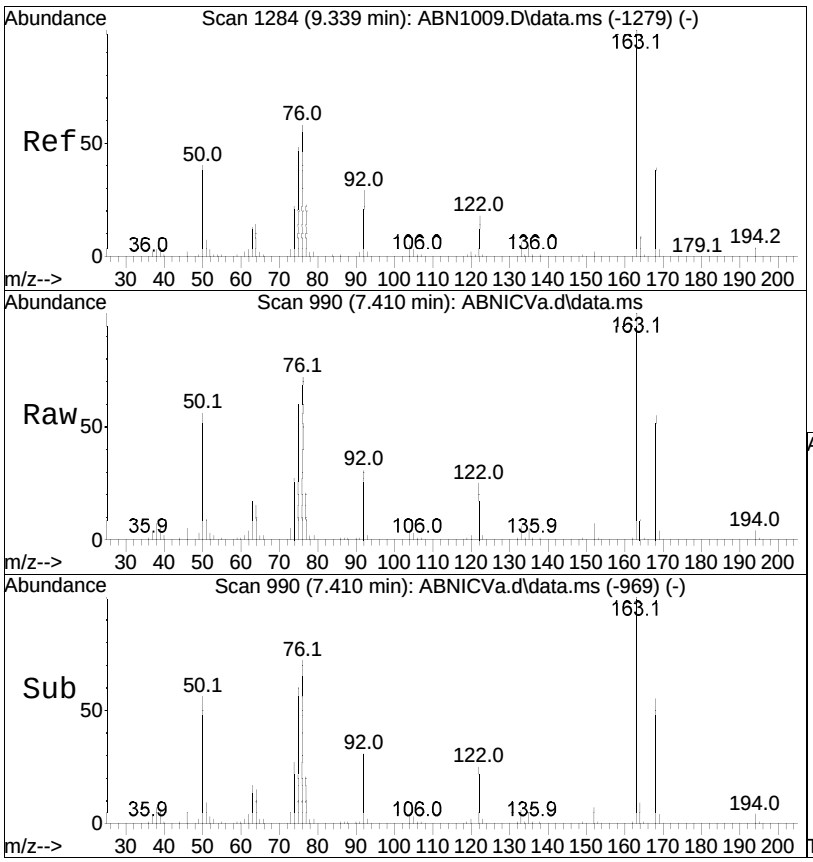


#48
1,4-Dinitrobenzene
Concen: 4.06 ug/ml
RT: 7.334 min Scan# 977
Delta R.T. -0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:168 Resp: 11141

Ion	Ratio	Lower	Upper
168	100		
75	128.9	121.8	182.8

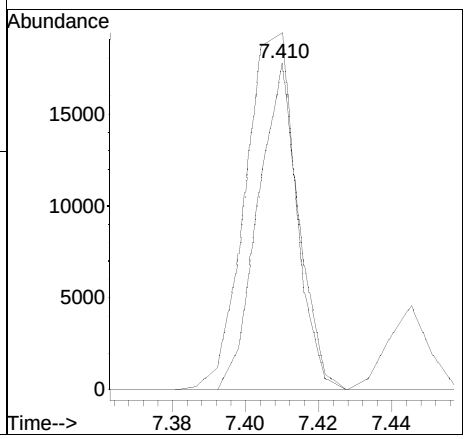


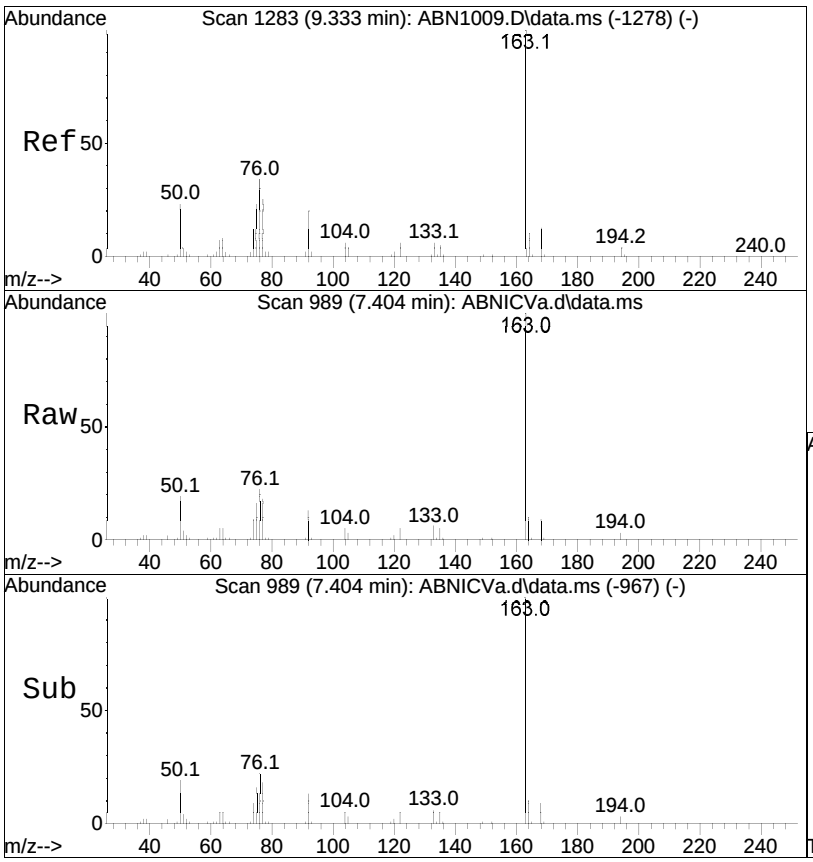


#49
1,3-Dinitrobenzene
Concen: 4.40 ug/ml
RT: 7.410 min Scan# 990
Delta R.T. 0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:168 Resp: 13779

Ion	Ratio	Lower	Upper
168	100		
75	135.4	22.7	34.1#

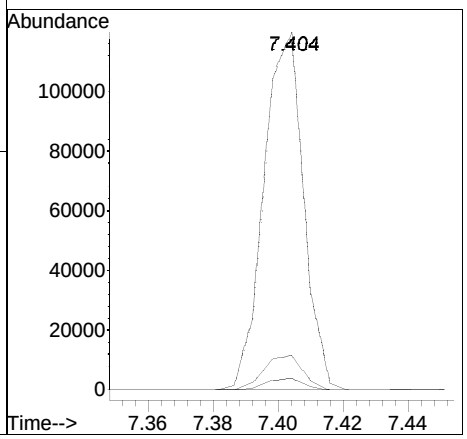


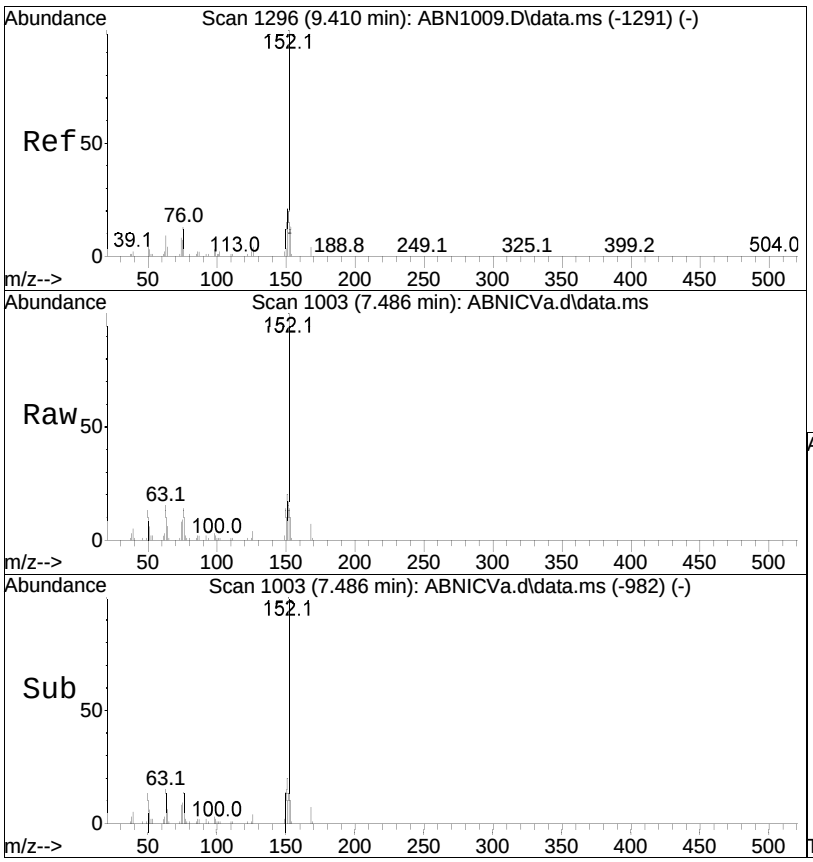


#50
Dimethyl phthalate
Concen: 4.75 ug/ml
RT: 7.404 min Scan# 989
Delta R.T. 0.006 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:163 Resp: 100407

Ion	Ratio	Lower	Upper
163	100		
194	3.3	3.5	5.3#
164	9.7	7.9	11.9

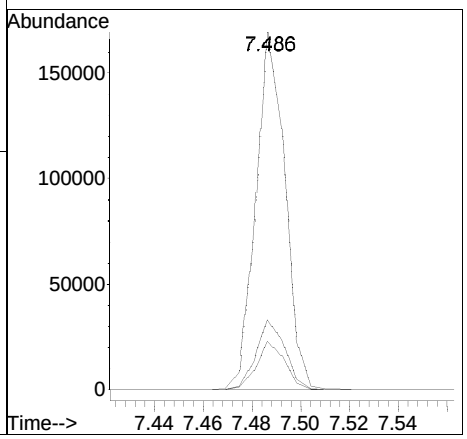


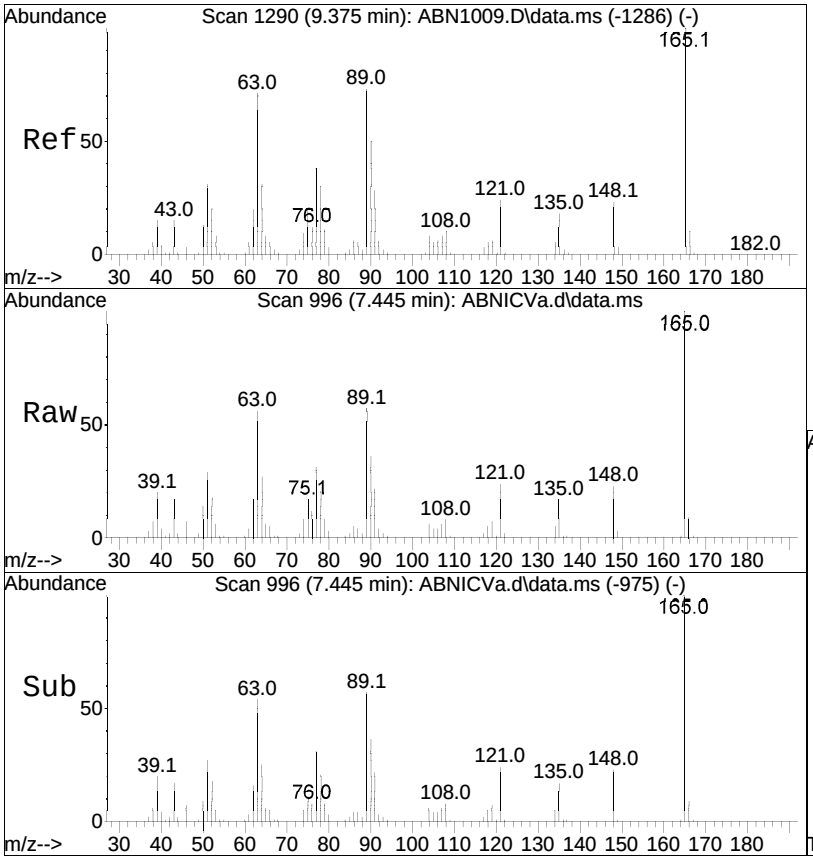


#51
Acenaphthylene
Concen: 4.93 ug/ml
RT: 7.486 min Scan# 1003
Delta R.T. -0.001 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:152 Resp: 139004

Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.8	23.6
153	13.1	10.5	15.7

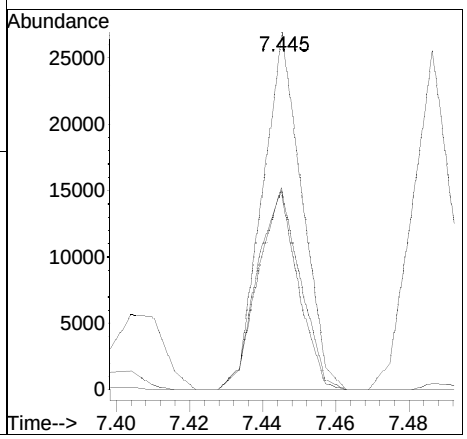


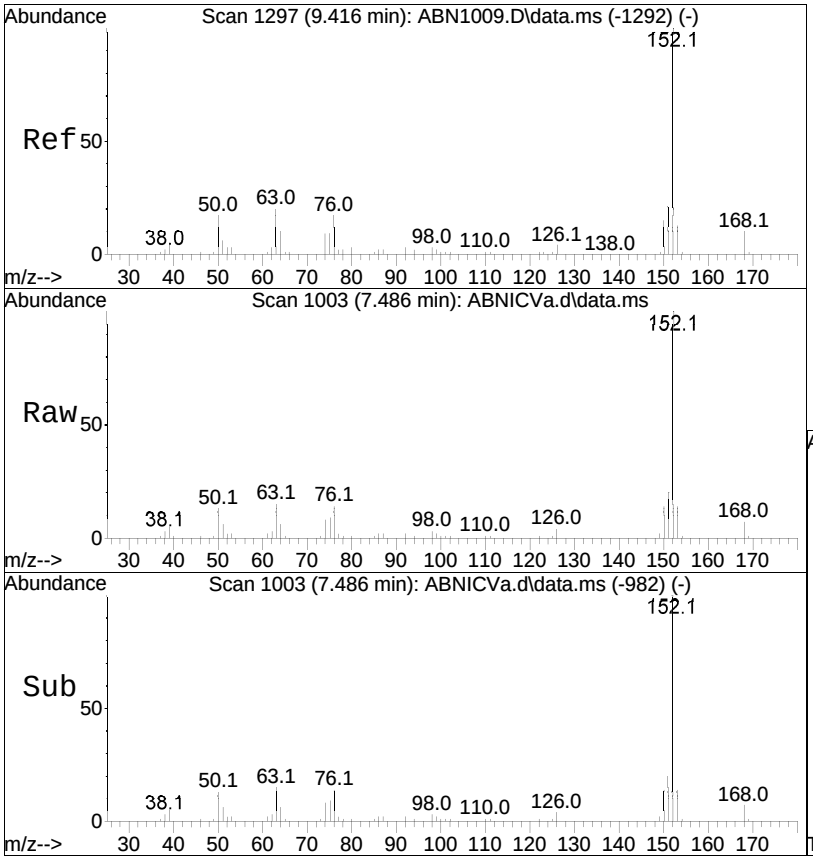


#52
2,6-Dinitrotoluene
Concen: 4.66 ug/ml
RT: 7.445 min Scan# 996
Delta R.T. 0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:165 Resp: 20309

Ion	Ratio	Lower	Upper
165	100		
89	59.6	54.2	81.2
63	57.6	64.2	96.2#

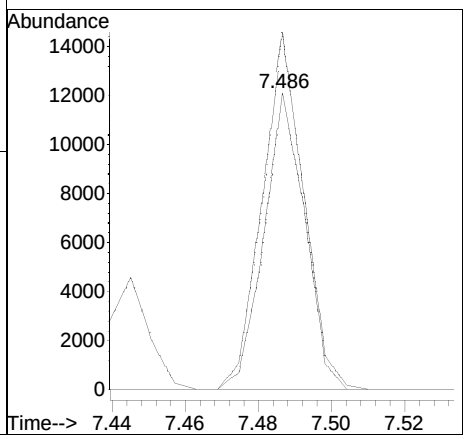


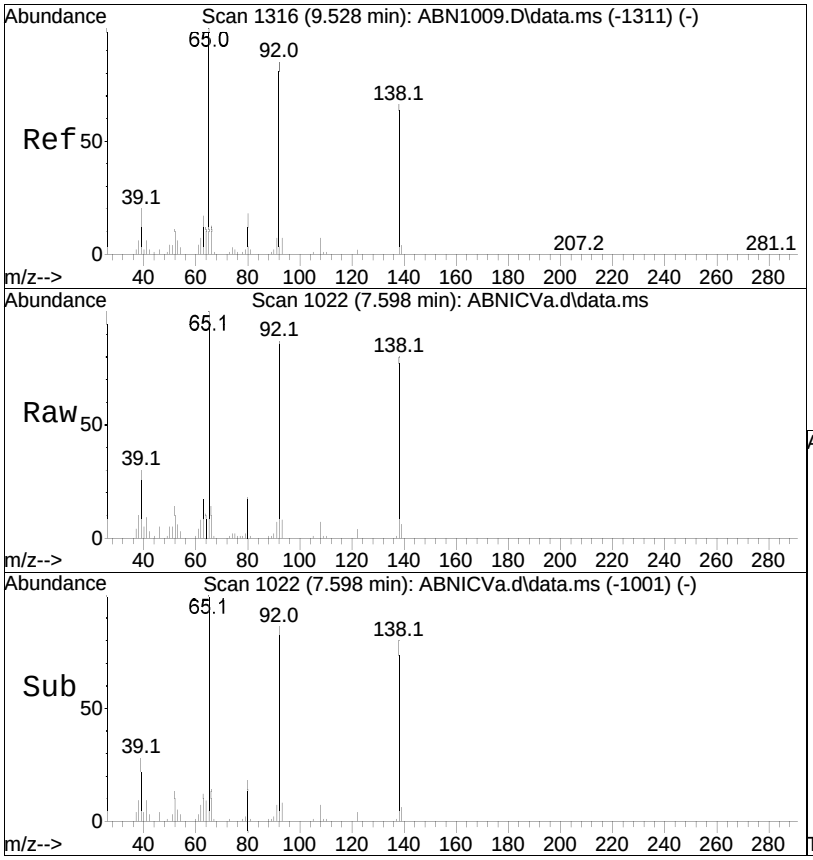


#53
1,2-Dinitrobenzene
Concen: 4.49 ug/ml
RT: 7.486 min Scan# 1003
Delta R.T. -0.001 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:168 Resp: 9310

Ion	Ratio	Lower	Upper
168	100		
75	121.9	30.9	46.3#

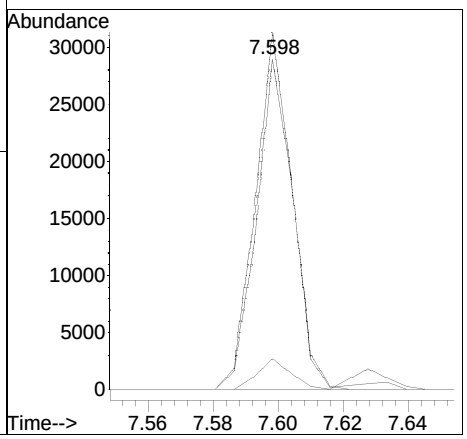


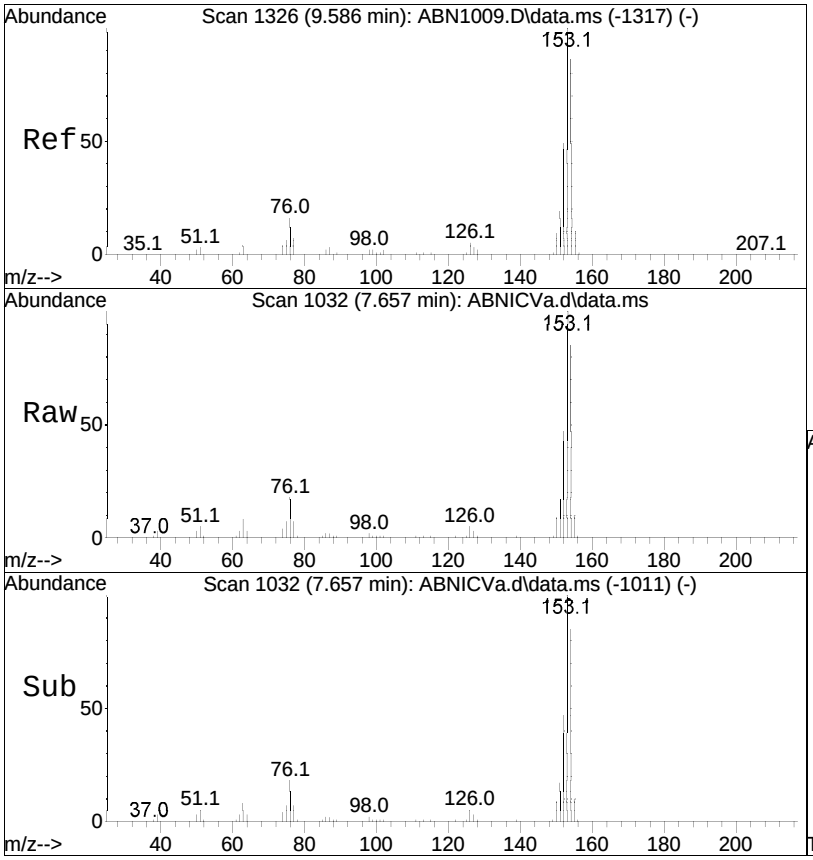


#63
3-Nitroaniline
Concen: 4.59 ug/ml
RT: 7.598 min Scan# 1022
Delta R.T. 0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:138 Resp: 22548

Ion	Ratio	Lower	Upper
138	100		
92	107.8	93.4	140.2
108	8.4	9.5	14.3#

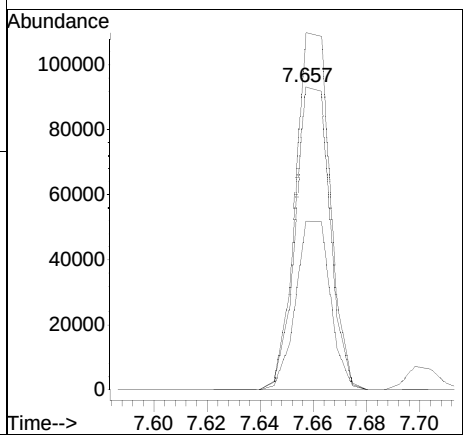


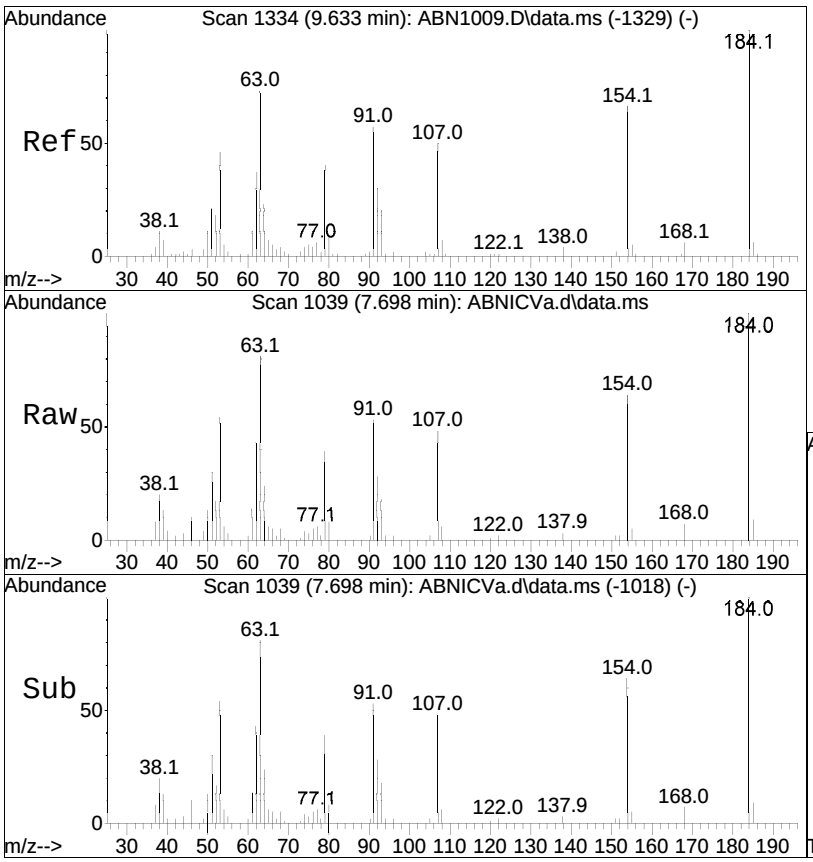


#64
Acenaphthene
Concen: 4.78 ug/ml
RT: 7.657 min Scan# 1032
Delta R.T. 0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:154 Resp: 83999

Ion	Ratio	Lower	Upper
154	100		
153	118.0	85.3	127.9
152	56.0	41.4	62.0

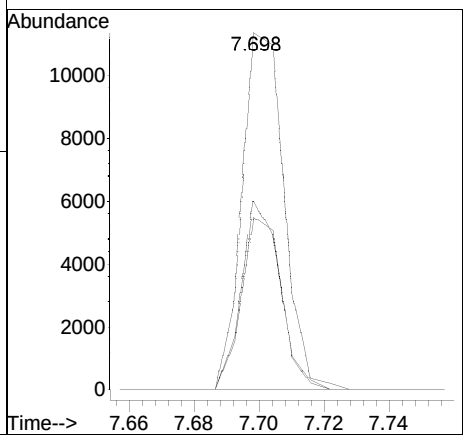


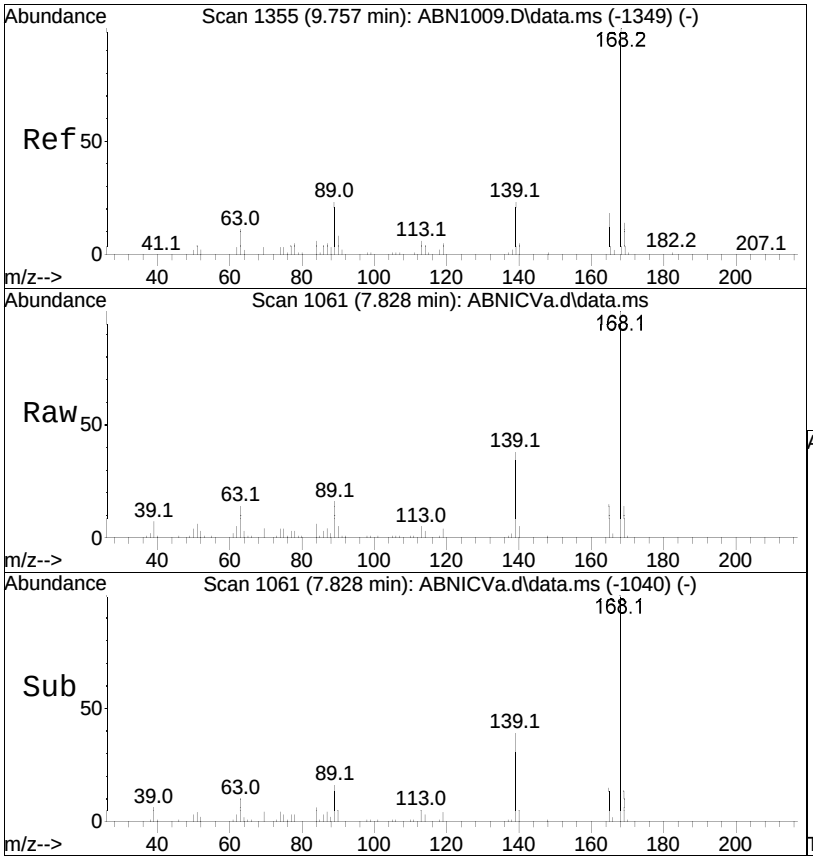


#65
2,4-Dinitrophenol
Concen: 4.38 ug/ml
RT: 7.698 min Scan# 1039
Delta R.T. 0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:184 Resp: 10160

Ion	Ratio	Lower	Upper
184	100		
107	46.3	37.7	56.5
91	48.6	46.3	69.5

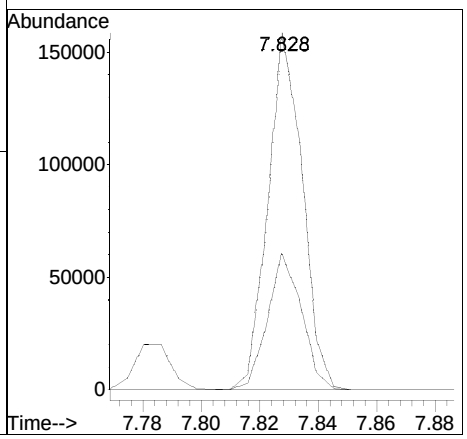


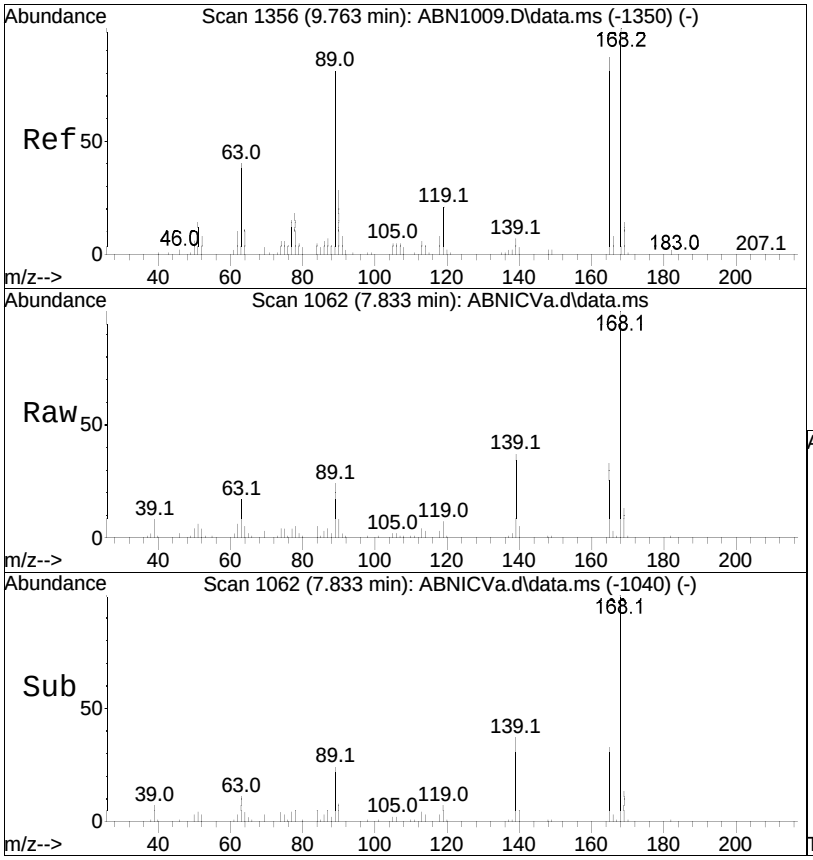


#66
Dibenzofuran
Concen: 4.75 ug/ml
RT: 7.828 min Scan# 1061
Delta R.T. -0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:168 Resp: 128047

Ion	Ratio	Lower	Upper
168	100		
139	38.1	31.4	47.2

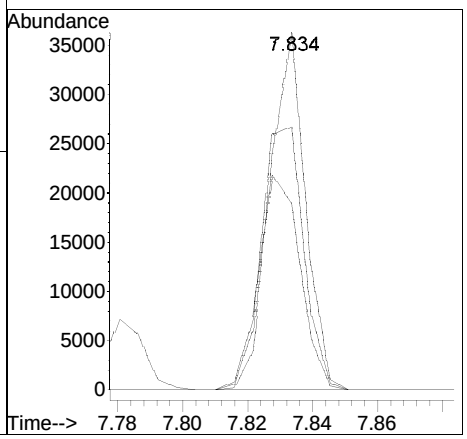


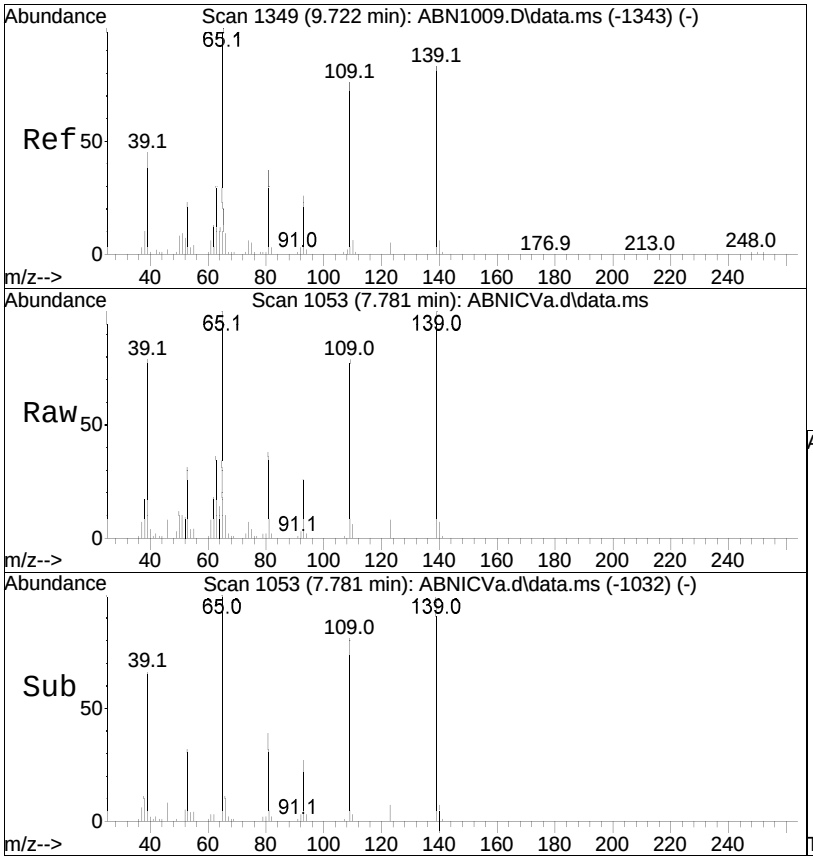


#67
2,4-Dinitrotoluene
Concen: 4.58 ug/ml
RT: 7.833 min Scan# 1062
Delta R.T. 0.005 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:165 Resp: 27474

Ion	Ratio	Lower	Upper
165	100		
89	87.3	72.0	108.0
63	70.1	52.7	79.1

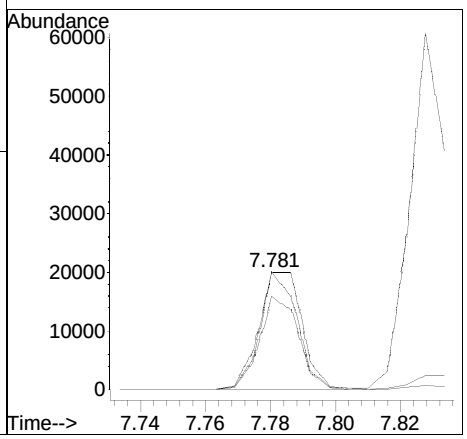


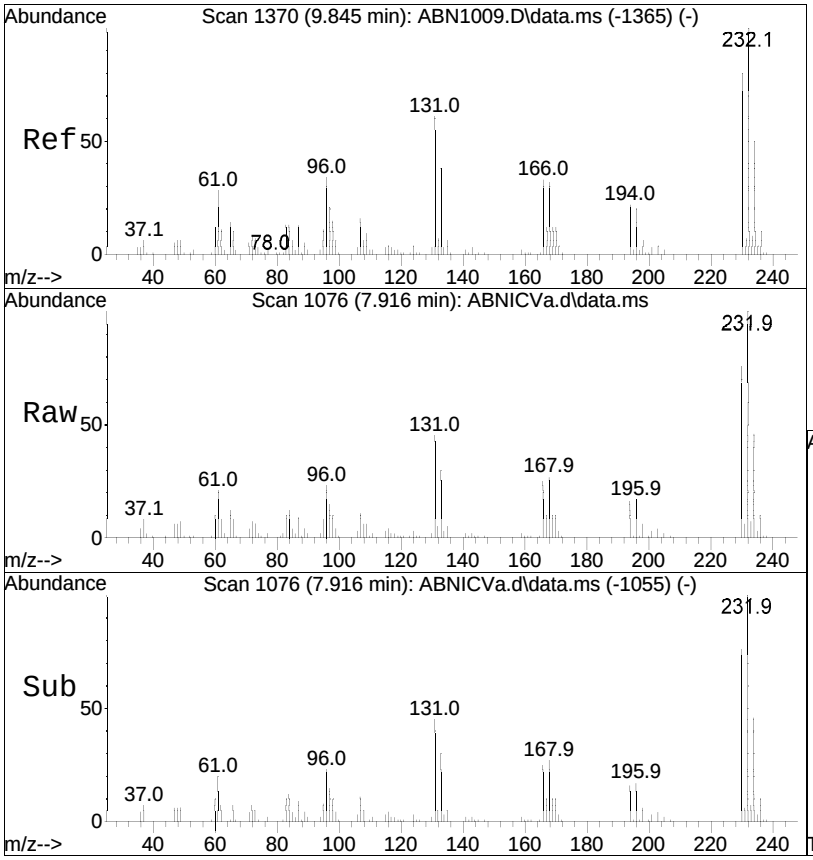


#68
4-Nitrophenol
Concen: 4.42 ug/ml
RT: 7.781 min Scan# 1053
Delta R.T. -0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion: 65 Resp: 16528

Ion	Ratio	Lower	Upper
65	100		
109	80.0	47.4	71.2#
139	108.9	76.6	115.0

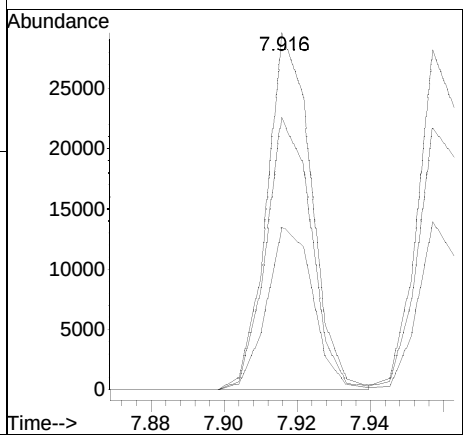


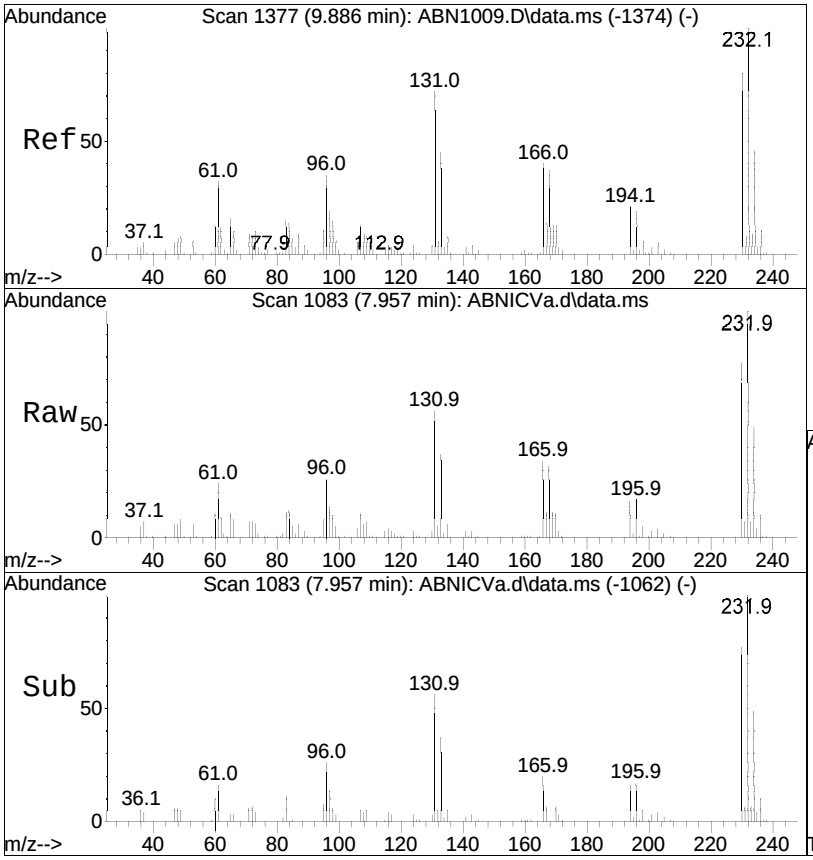


#69
2,3,5,6-Tetrachlorophenol
Concen: 4.61 ug/ml
RT: 7.916 min Scan# 1076
Delta R.T. -0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:232 Resp: 25025

Ion	Ratio	Lower	Upper
232	100		
230	77.7	64.2	96.4
234	47.6	38.1	57.1

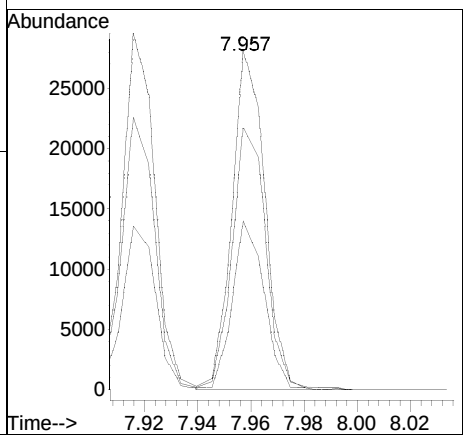


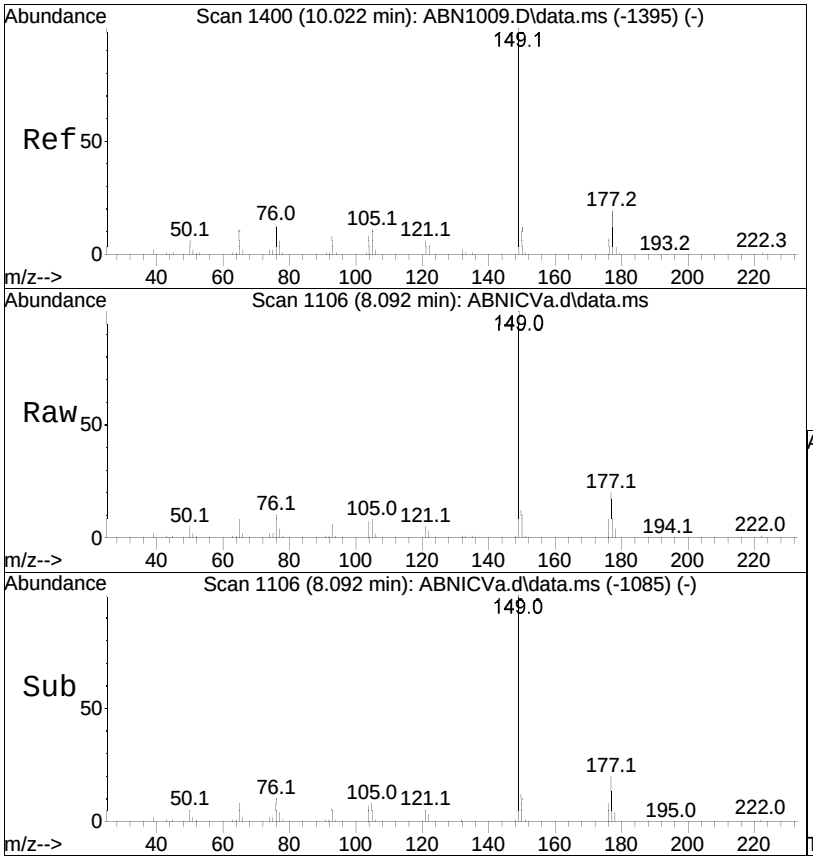


#70
2,3,4,6-Tetrachlorophenol
Concen: 4.64 ug/ml
RT: 7.957 min Scan# 1083
Delta R.T. 0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:232 Resp: 24211

Ion	Ratio	Lower	Upper
232	100		
230	79.7	61.8	92.8
234	48.4	36.2	54.2

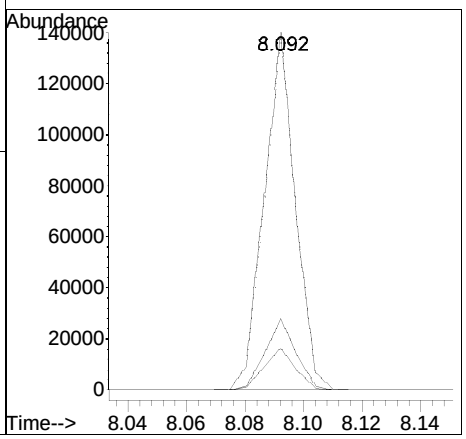


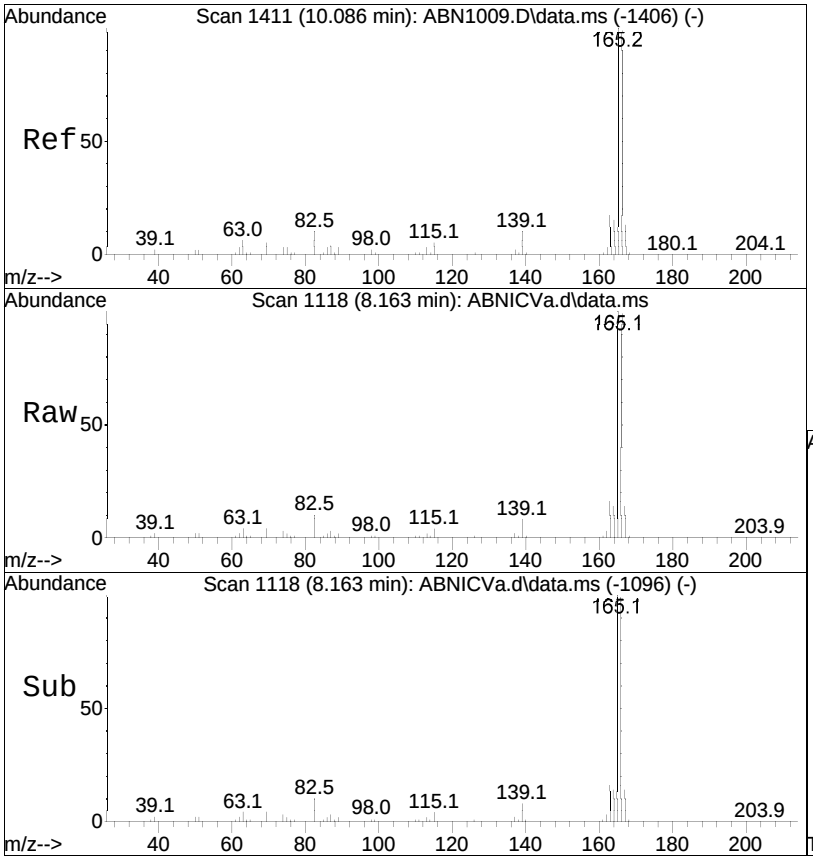


#71
Diethyl phthalate
Concen: 4.70 ug/ml
RT: 8.092 min Scan# 1106
Delta R.T. 0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:149 Resp: 101842

Ion	Ratio	Lower	Upper
149	100		
177	19.9	16.1	24.1
150	12.0	9.4	14.2

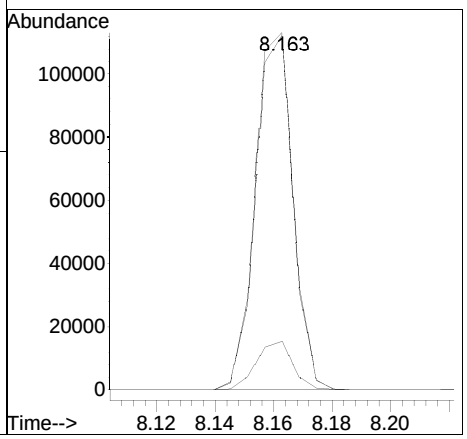


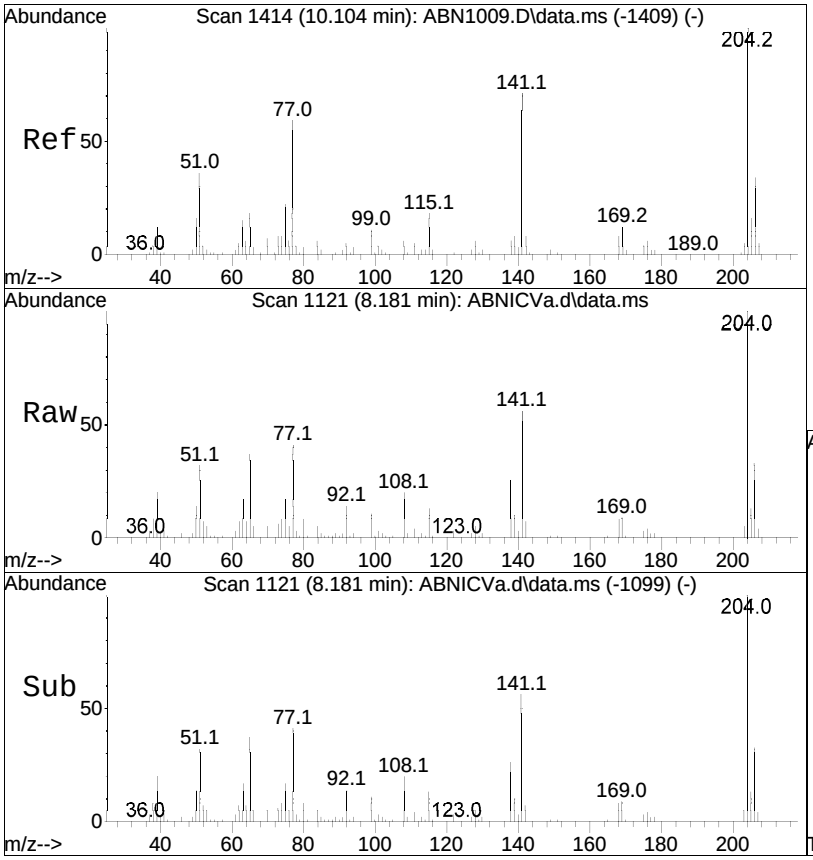


#72
Fluorene
Concen: 4.80 ug/ml
RT: 8.163 min Scan# 1118
Delta R.T. 0.006 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:166 Resp: 98696

Ion	Ratio	Lower	Upper
166	100		
165	102.8	76.2	114.2
167	13.6	10.6	15.8

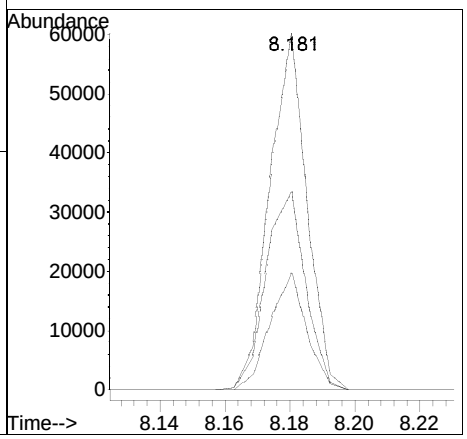


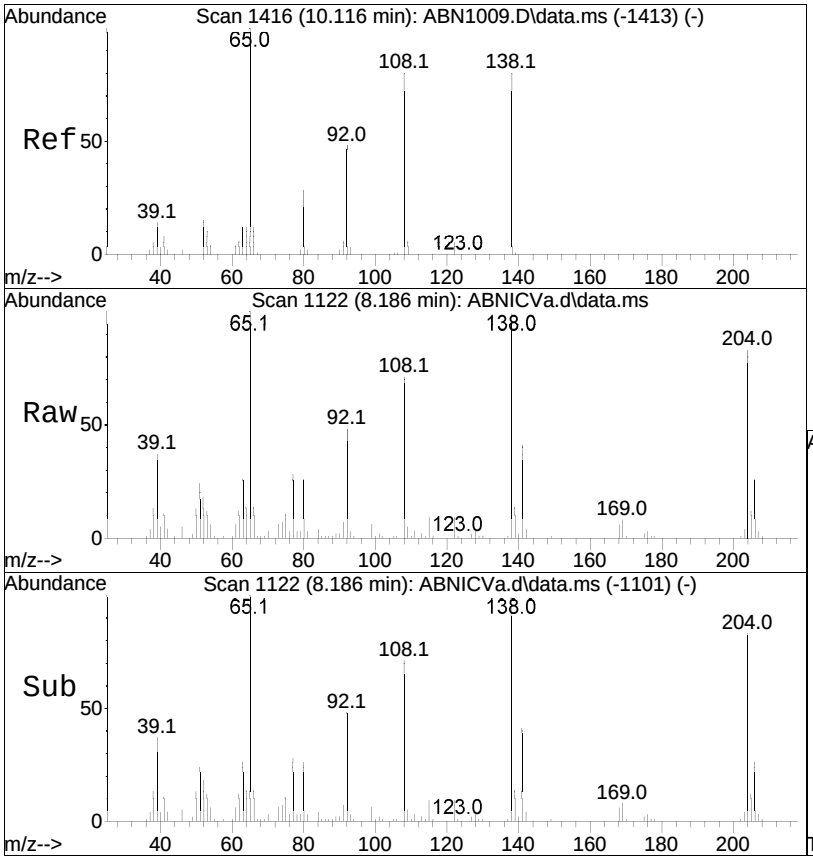


#73
4-Chlorophenyl phenyl ether
Concen: 4.67 ug/ml
RT: 8.181 min Scan# 1121
Delta R.T. 0.006 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:204 Resp: 47376

Ion	Ratio	Lower	Upper
204	100		
206	32.4	25.8	38.6
141	59.6	53.6	80.4

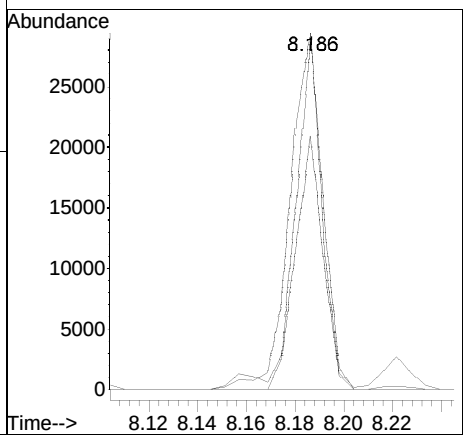


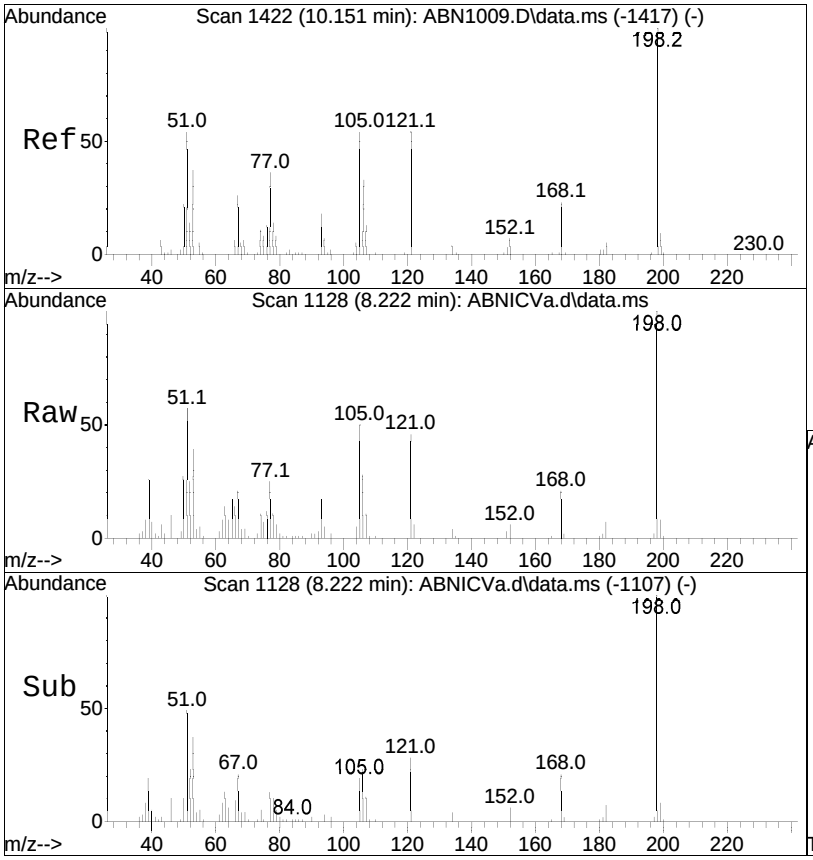


#74
4-Nitroaniline
Concen: 4.77 ug/ml
RT: 8.186 min Scan# 1122
Delta R.T. -0.001 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:138 Resp: 23151

Ion	Ratio	Lower	Upper
138	100		
108	70.3	52.1	78.1
65	113.5	115.0	172.6#

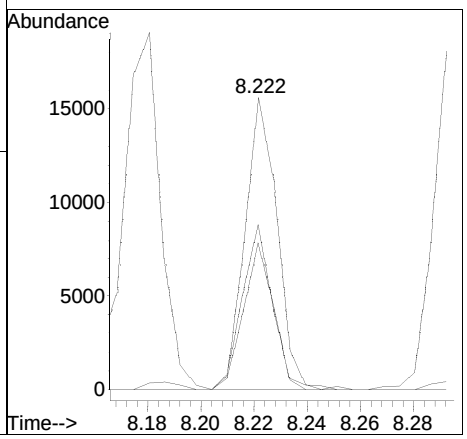


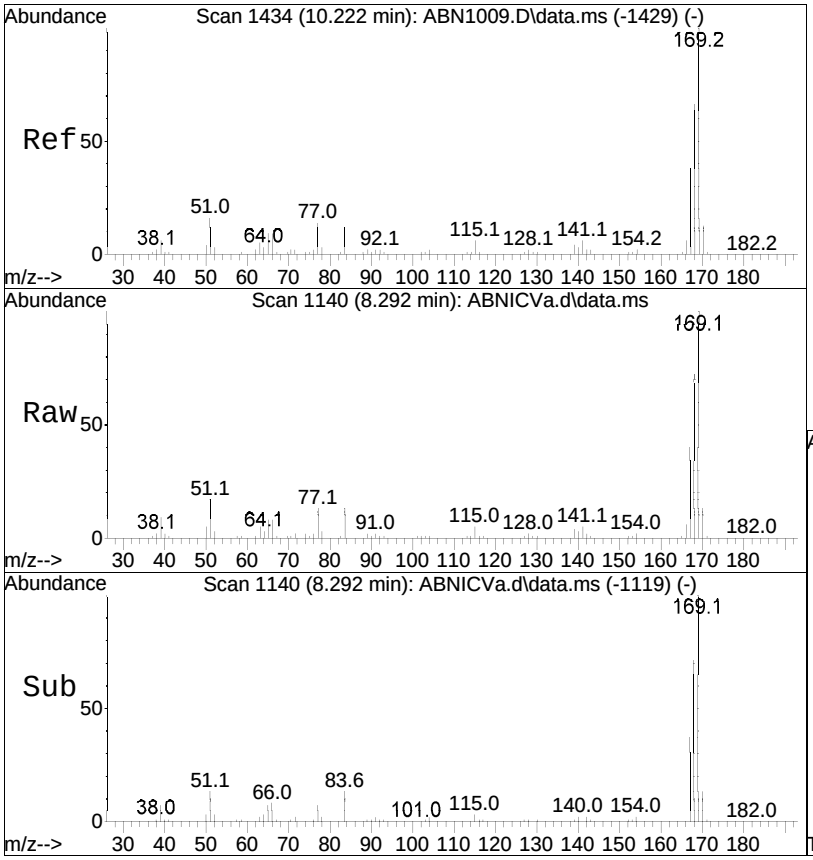


#75
4,6-Dinitro-o-cresol
Concen: 4.14 ug/ml
RT: 8.222 min Scan# 1128
Delta R.T. -0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:198 Resp: 13100

Ion	Ratio	Lower	Upper
198	100		
51	53.5	76.0	114.0#
105	46.8	45.6	68.4

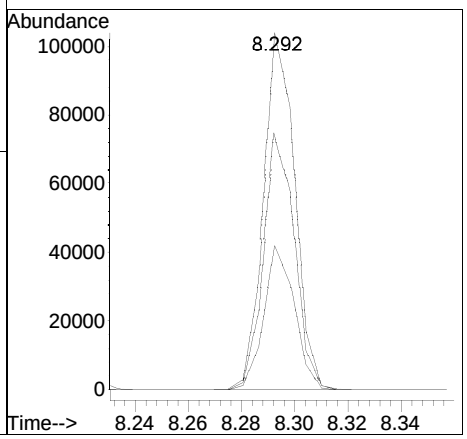


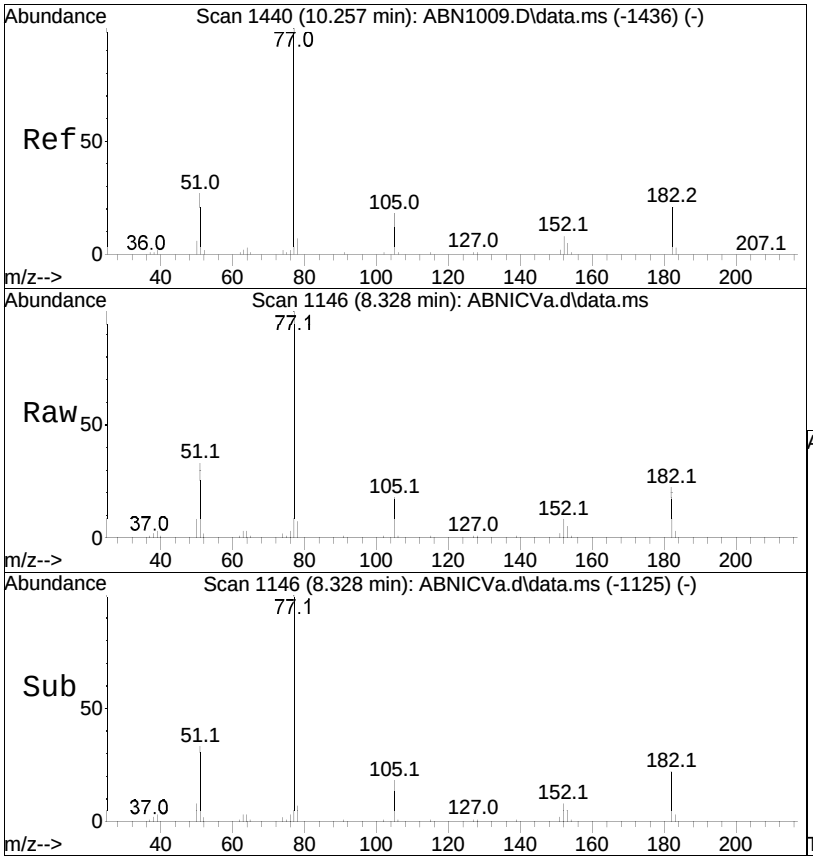


#76
NDPA/DPA
Concen: 4.92 ug/ml
RT: 8.292 min Scan# 1140
Delta R.T. 0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:169 Resp: 84558

Ion	Ratio	Lower	Upper
169	100		
168	71.2	54.0	81.0
167	39.5	28.6	42.8

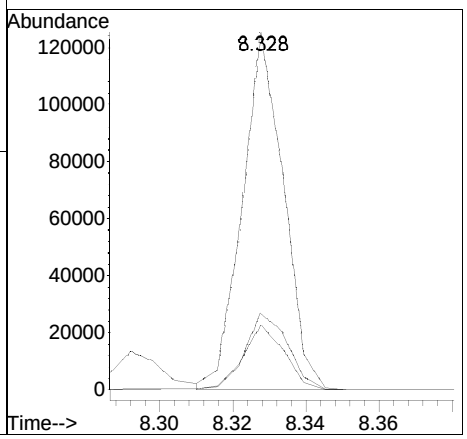


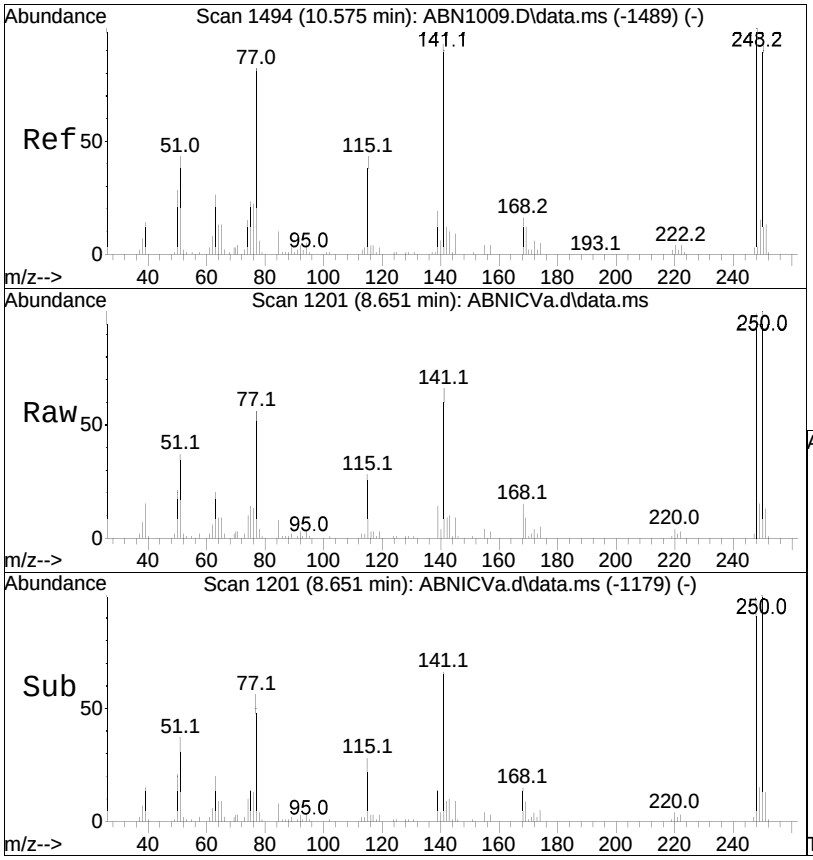


#77
Azobenzene
Concen: 4.81 ug/ml
RT: 8.328 min Scan# 1146
Delta R.T. -0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion: 77 Resp: 97070

Ion	Ratio	Lower	Upper
77	100		
182	22.9	17.4	26.2
105	19.1	15.4	23.2

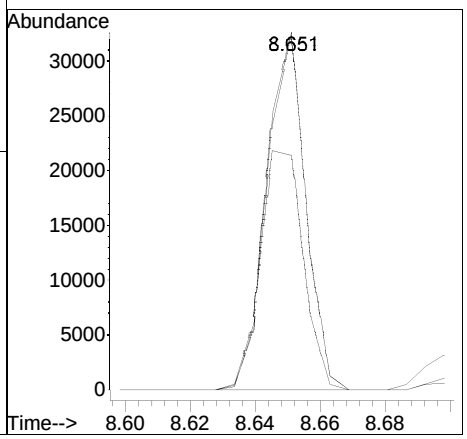


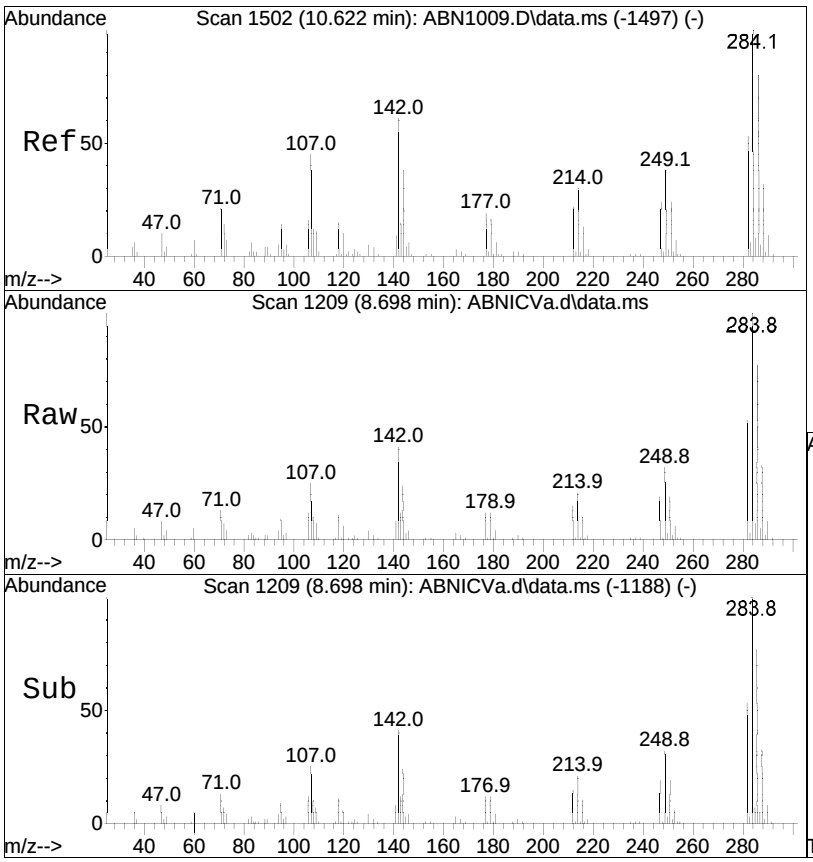


#79
4-Bromophenyl phenyl ether
Concen: 4.43 ug/ml
RT: 8.651 min Scan# 1201
Delta R.T. 0.006 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:248 Resp: 26760

Ion	Ratio	Lower	Upper
248	100		
141	74.9	76.6	114.8#
250	101.7	77.3	115.9

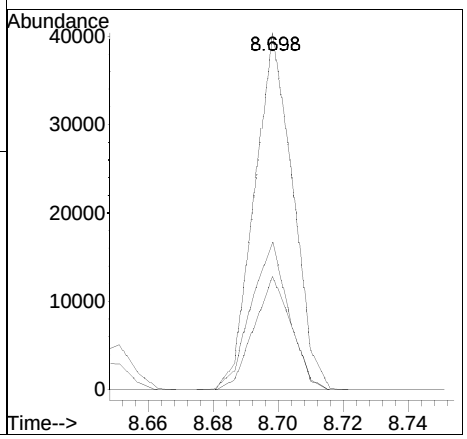


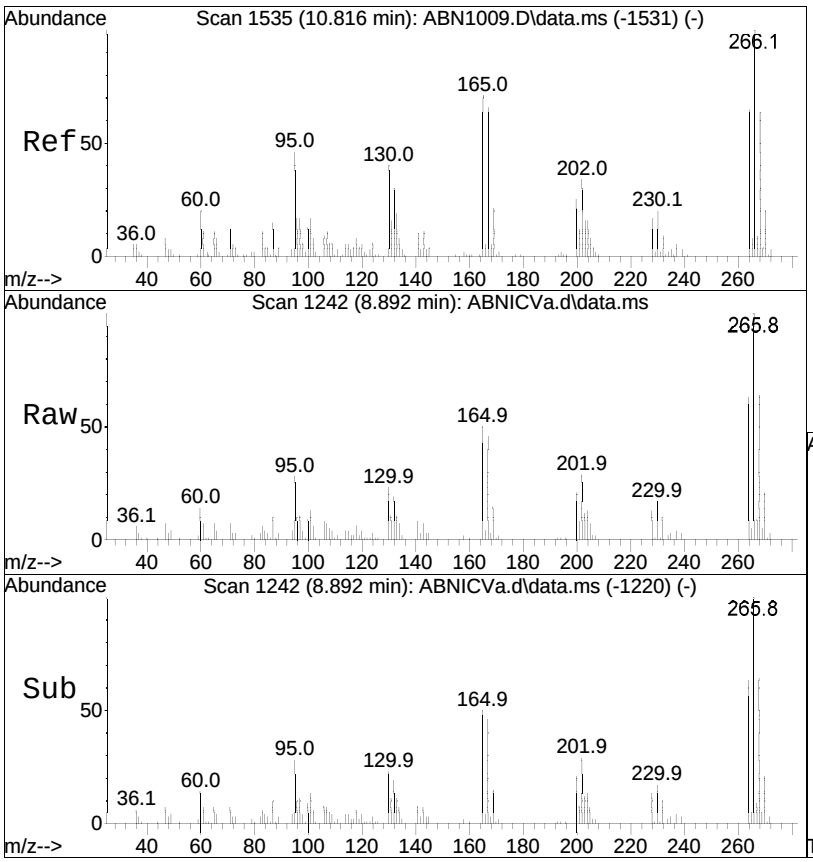


#80
Hexachlorobenzene
Concen: 4.69 ug/ml
RT: 8.698 min Scan# 1209
Delta R.T. 0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:284 Resp: 32958

Ion	Ratio	Lower	Upper
284	100		
142	41.0	41.9	62.9#
249	31.2	24.1	36.1

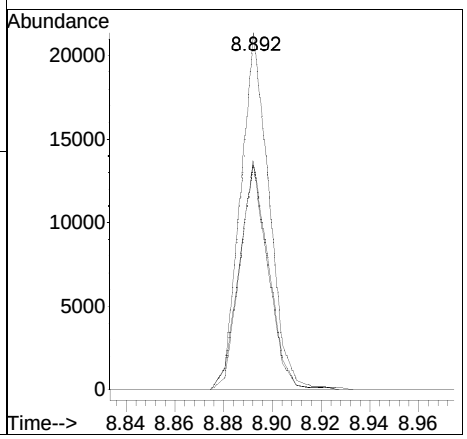


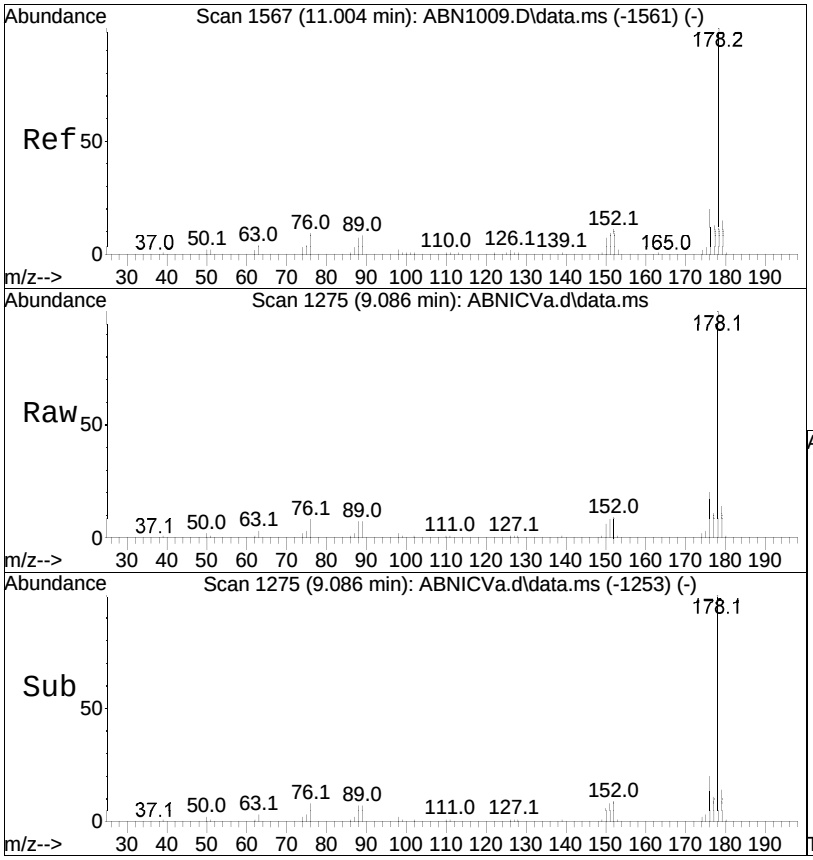


#81
Pentachlorophenol
Concen: 4.13 ug/ml
RT: 8.892 min Scan# 1242
Delta R.T. 0.006 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:266 Resp: 17434

Ion	Ratio	Lower	Upper
266	100		
264	63.9	49.7	74.5
268	64.3	50.5	75.7

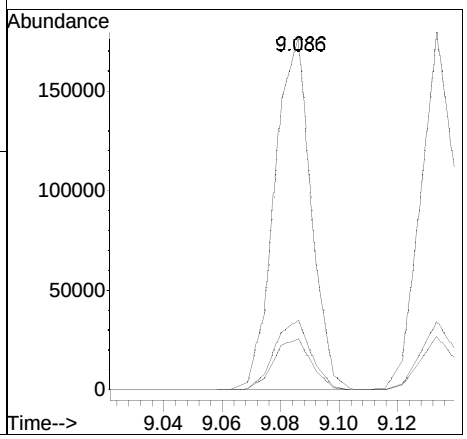


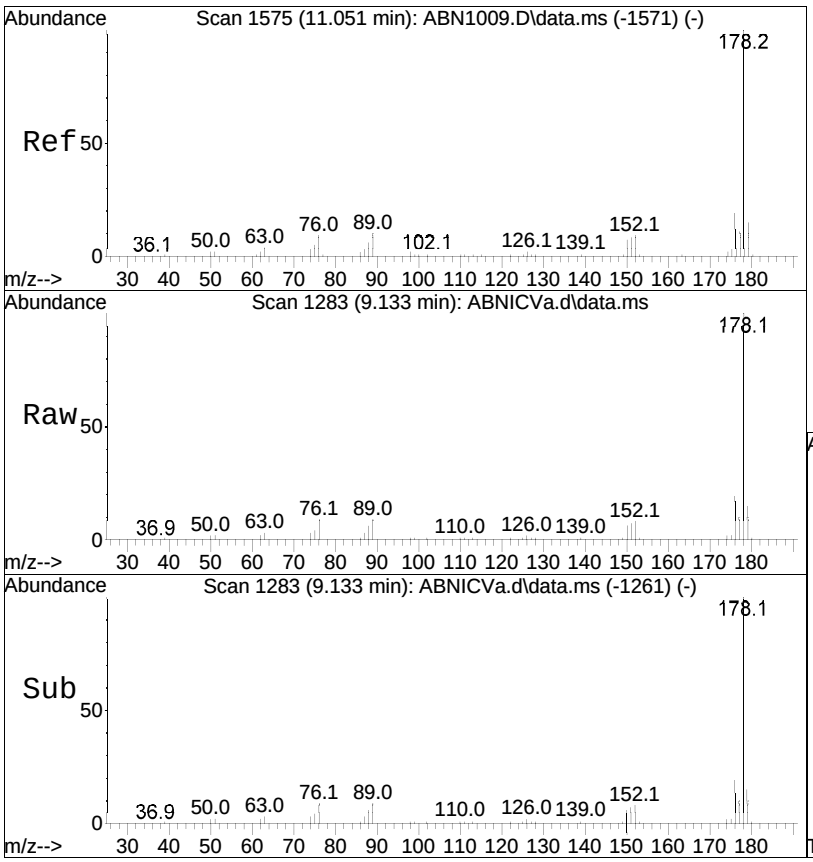


#88
Phenanthrene
Concen: 4.78 ug/ml
RT: 9.086 min Scan# 1275
Delta R.T. 0.005 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:178 Resp: 153522

Ion	Ratio	Lower	Upper
178	100		
179	14.8	12.2	18.2
176	19.7	15.4	23.2

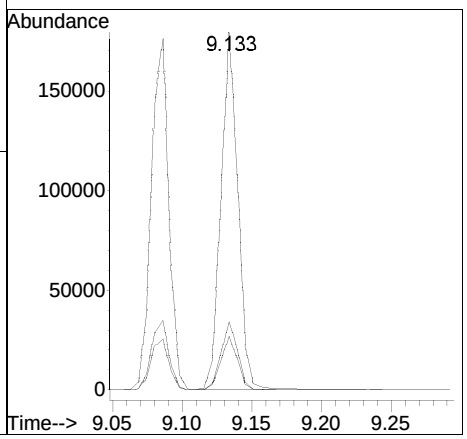


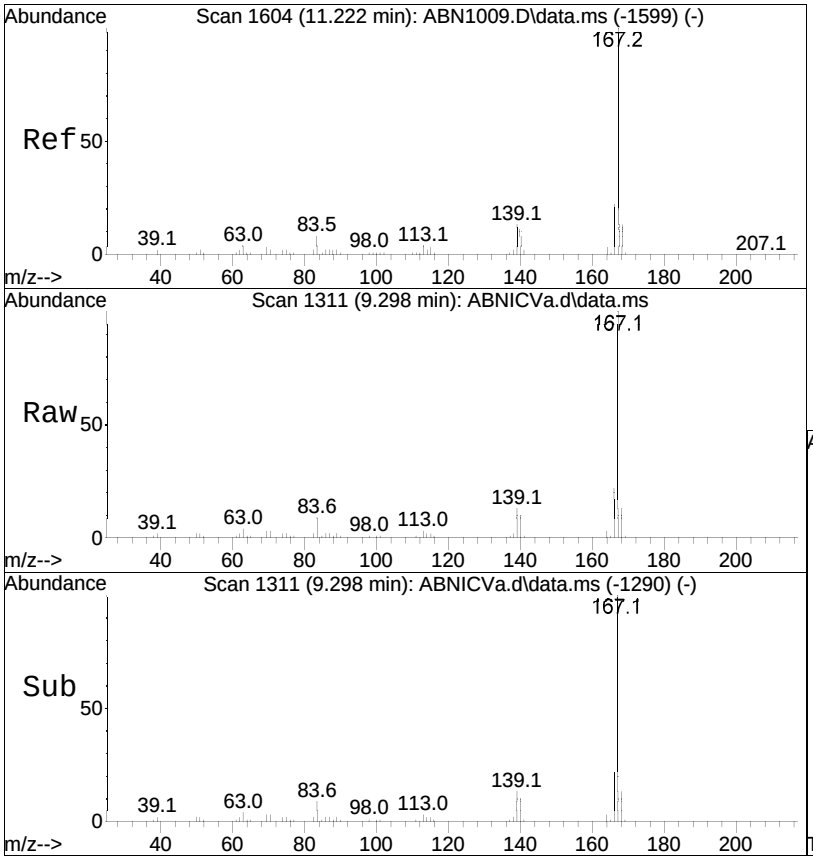


#89
Anthracene
Concen: 4.90 ug/ml
RT: 9.133 min Scan# 1283
Delta R.T. 0.005 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:178 Resp: 151675

Ion	Ratio	Lower	Upper
178	100		
179	14.7	12.0	18.0
176	18.8	14.6	22.0

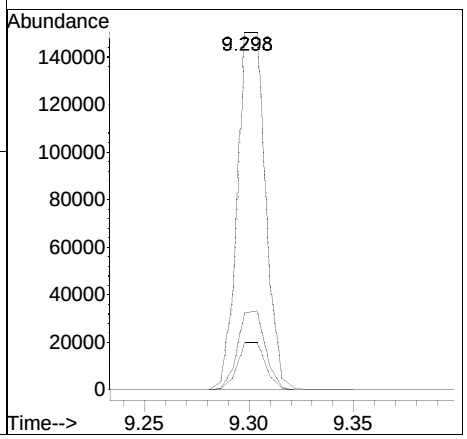


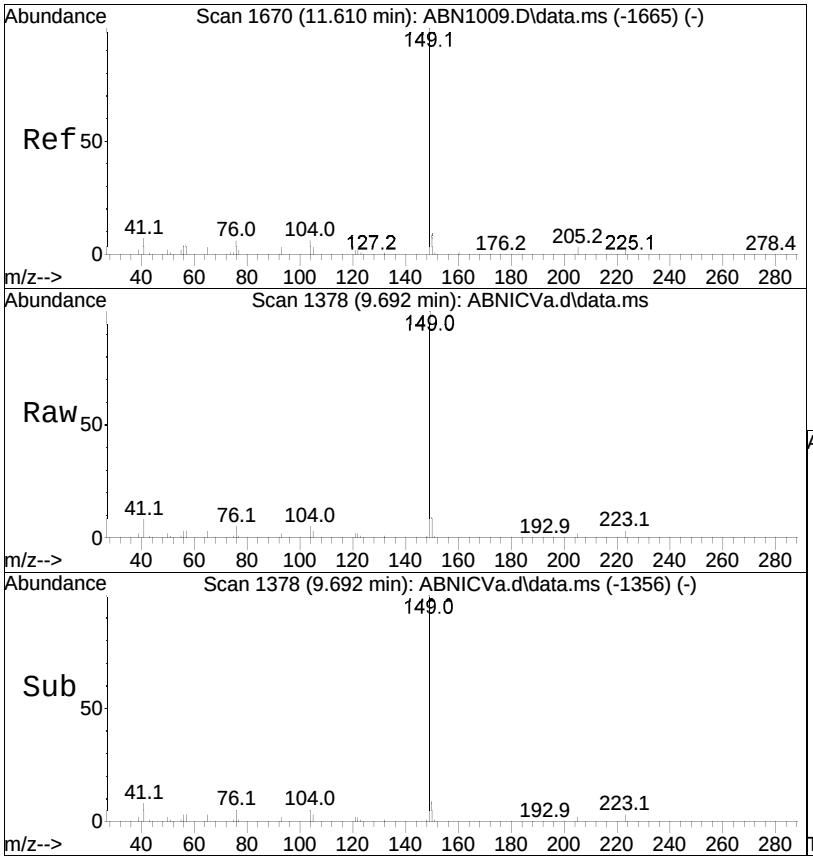


#90
Carbazole
Concen: 4.97 ug/ml
RT: 9.298 min Scan# 1311
Delta R.T. 0.000 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:167 Resp: 138968

Ion	Ratio	Lower	Upper
167	100		
168	13.3	10.6	15.8
166	21.9	17.4	26.0

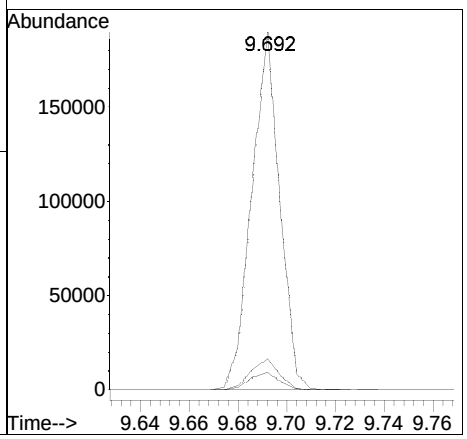


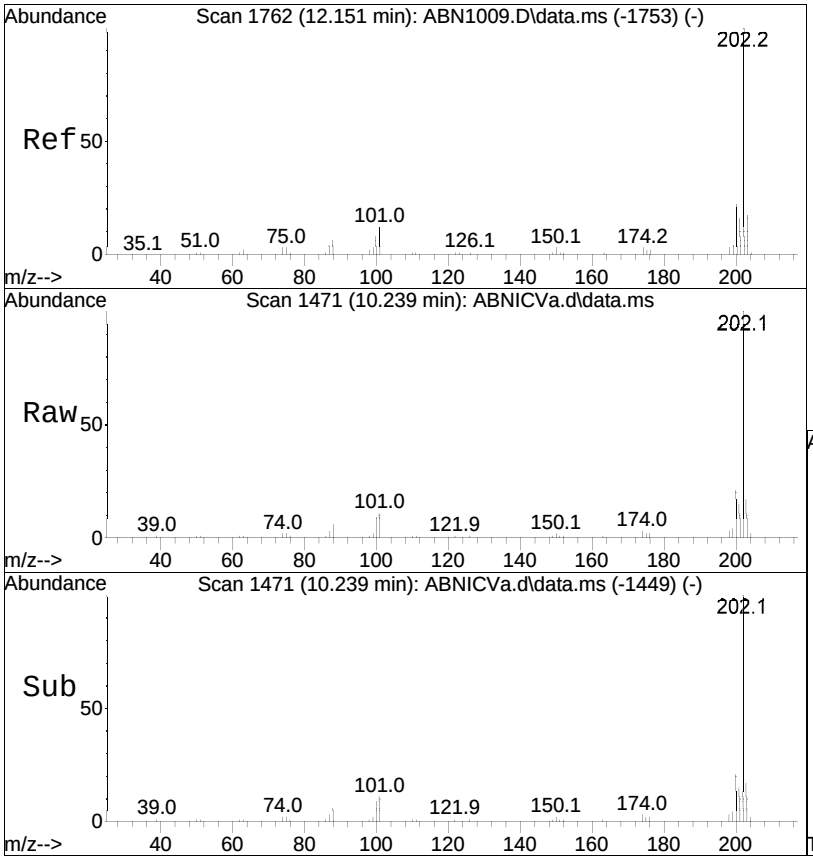


#91
Di-n-butylphthalate
Concen: 4.22 ug/ml
RT: 9.692 min Scan# 1378
Delta R.T. 0.006 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:149 Resp: 148957

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.0	10.6
104	5.4	4.5	6.7

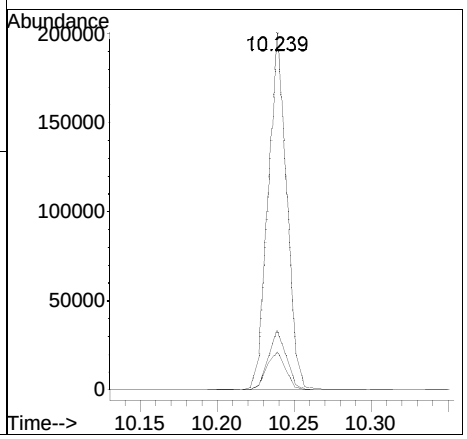


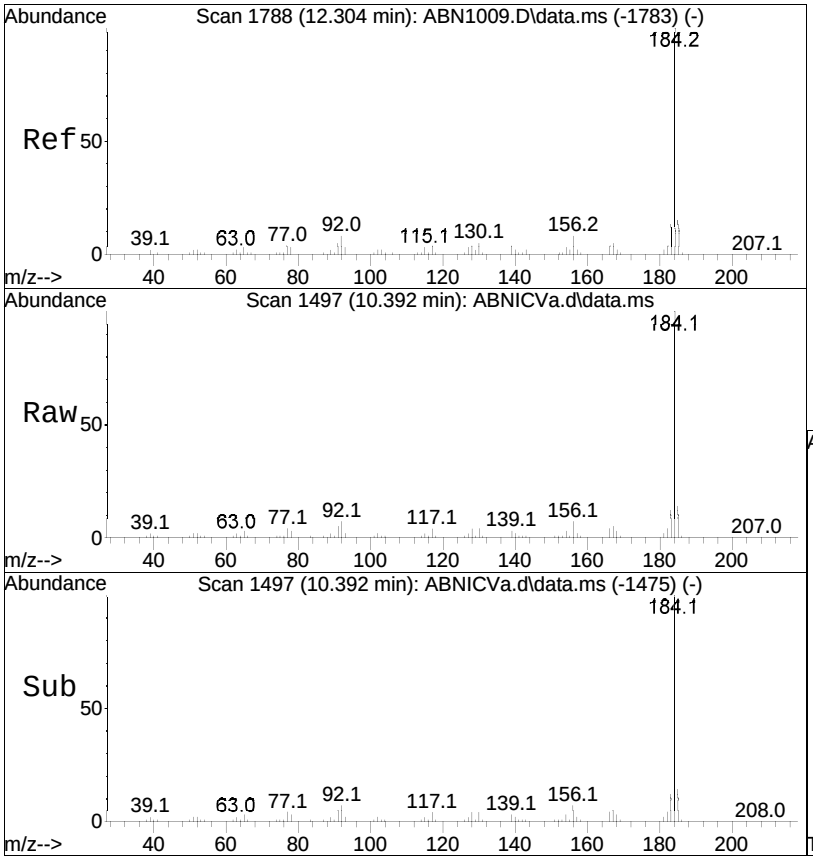


#92
Fluoranthene
Concen: 4.96 ug/ml
RT: 10.239 min Scan# 1471
Delta R.T. 0.006 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:202 Resp: 165560

Ion	Ratio	Lower	Upper
202	100		
101	11.2	13.5	20.3#
203	16.5	13.6	20.4

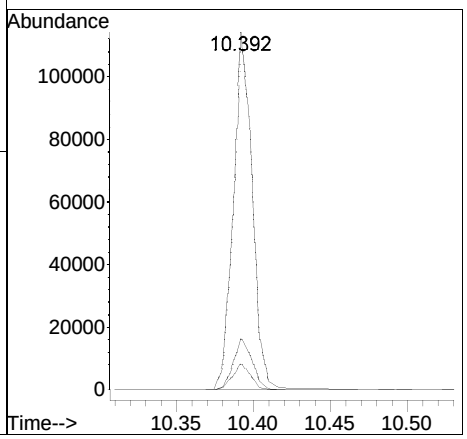


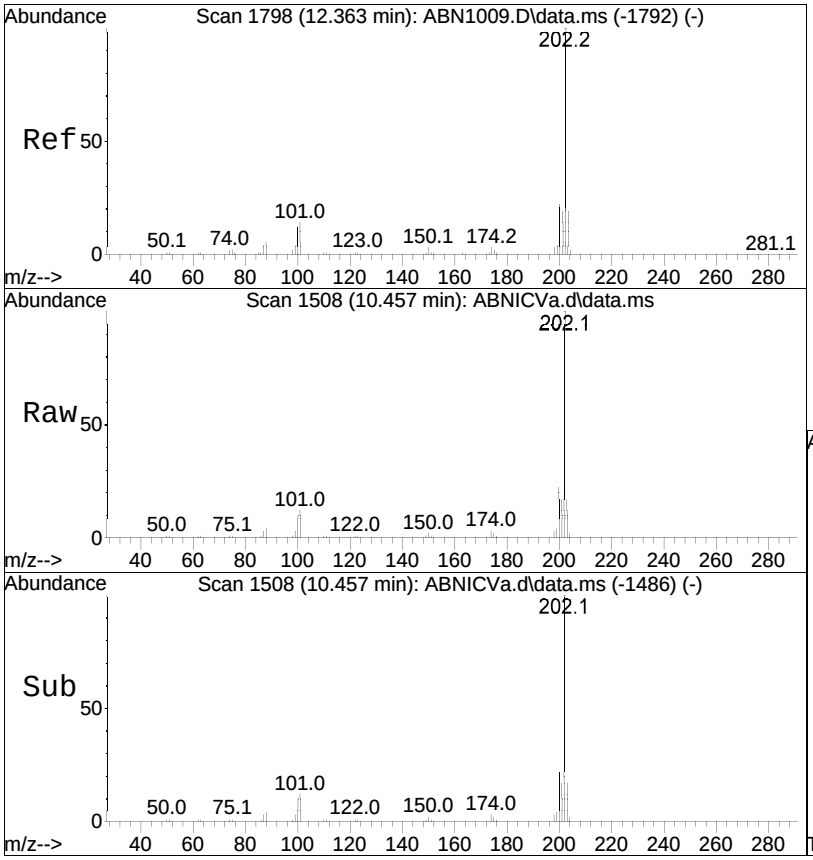


#93
Benzidine
Concen: 4.05 ug/ml
RT: 10.392 min Scan# 1497
Delta R.T. 0.006 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:184 Resp: 96060

Ion	Ratio	Lower	Upper
184	100		
92	7.0	9.1	13.7#
185	14.3	11.1	16.7

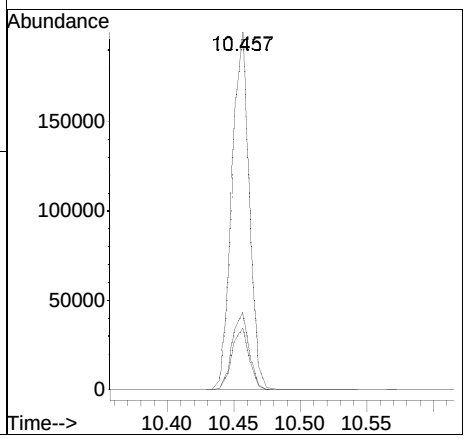


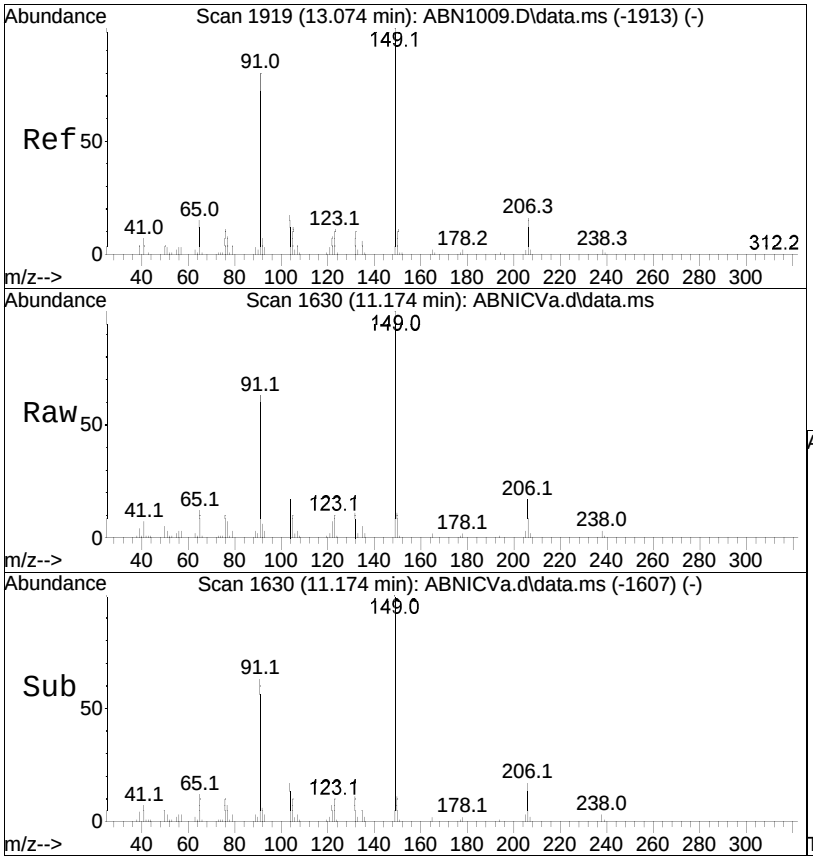


#94
Pyrene
Concen: 5.13 ug/ml
RT: 10.457 min Scan# 1508
Delta R.T. 0.006 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:202 Resp: 180517

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.7	25.1
203	17.2	14.2	21.4

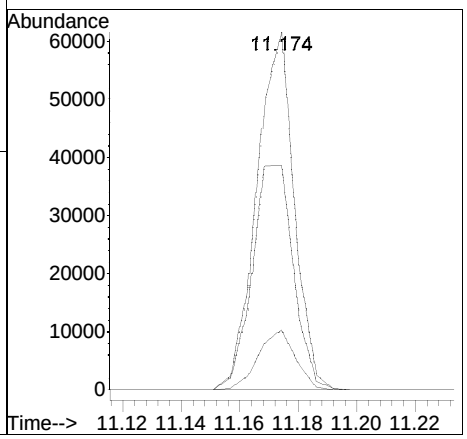


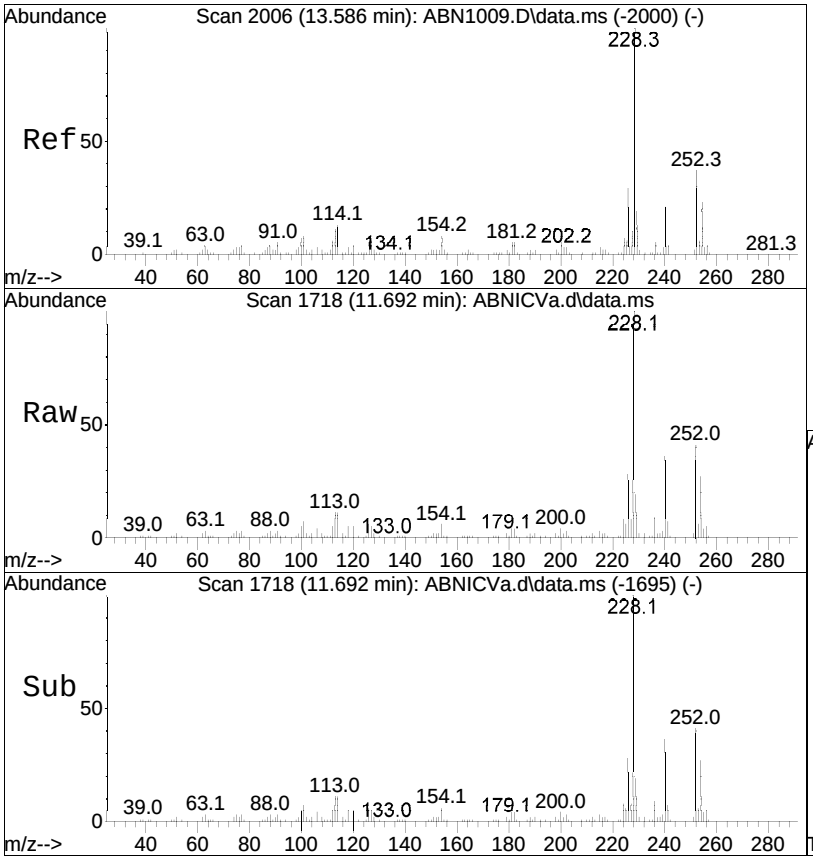


#96
Butyl benzyl phthalate
Concen: 4.11 ug/ml
RT: 11.174 min Scan# 1630
Delta R.T. 0.011 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:149 Resp: 54211

Ion	Ratio	Lower	Upper
149	100		
91	69.3	63.3	94.9
206	16.7	13.9	20.9

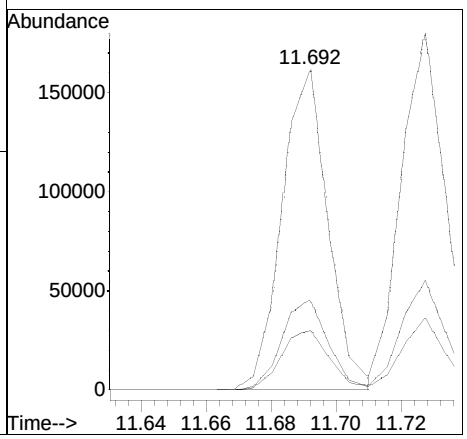


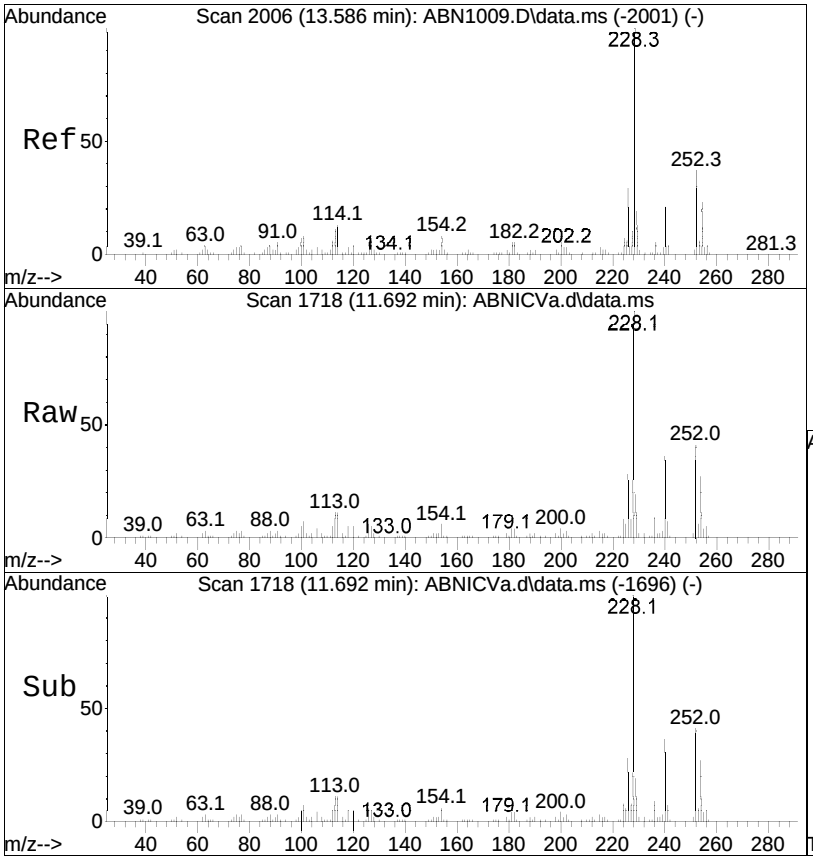


#104
Benzo(a)anthracene
Concen: 4.57 ug/ml
RT: 11.692 min Scan# 1718
Delta R.T. 0.012 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:228 Resp: 159392

Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.2	33.4
229	19.5	15.6	23.4

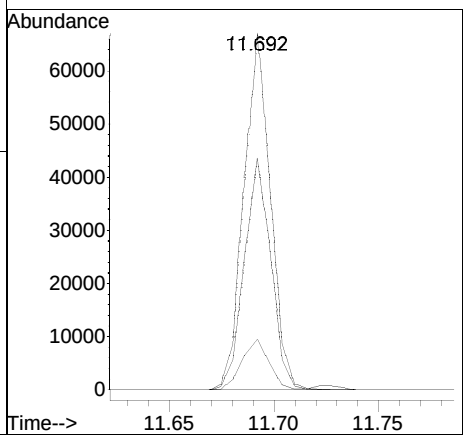


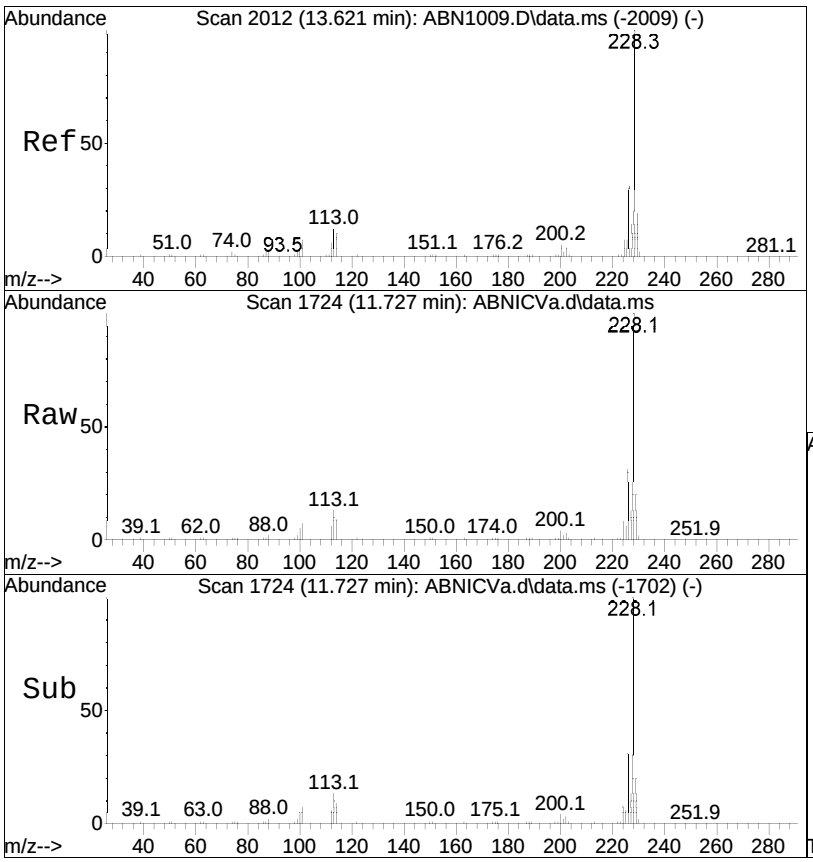


#105
3,3'-Dichlorobenzidine
Concen: 4.45 ug/ml
RT: 11.692 min Scan# 1718
Delta R.T. 0.006 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:252 Resp: 58836

Ion	Ratio	Lower	Upper
252	100		
126	14.7	14.5	21.7
254	65.0	51.2	76.8

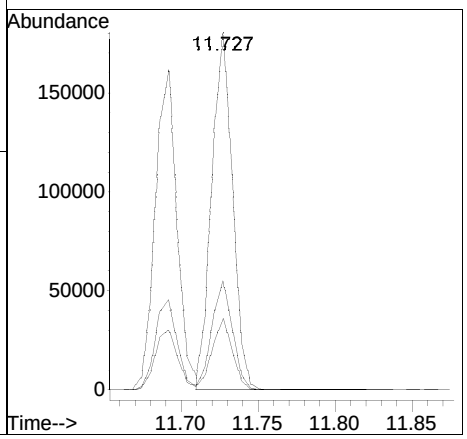


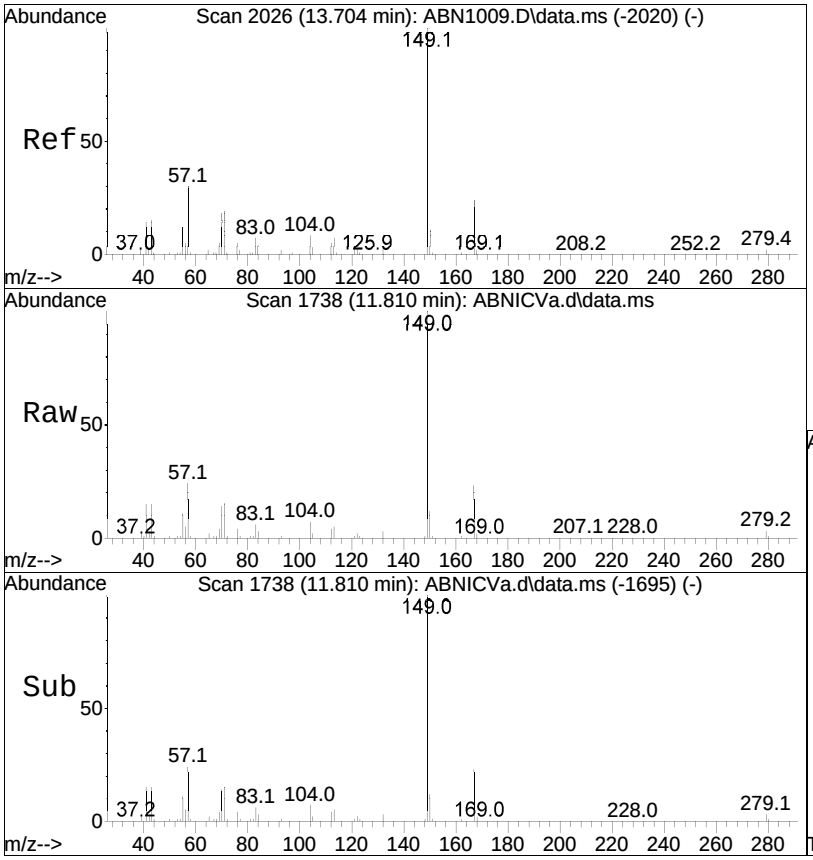


#106
Chrysene
Concen: 4.74 ug/ml
RT: 11.727 min Scan# 1724
Delta R.T. 0.005 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:228 Resp: 169552

Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.0	36.0
229	19.3	15.8	23.8

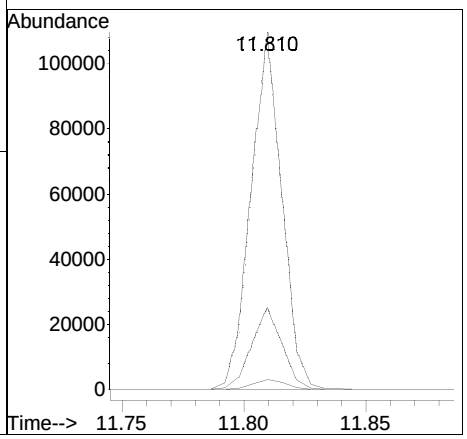


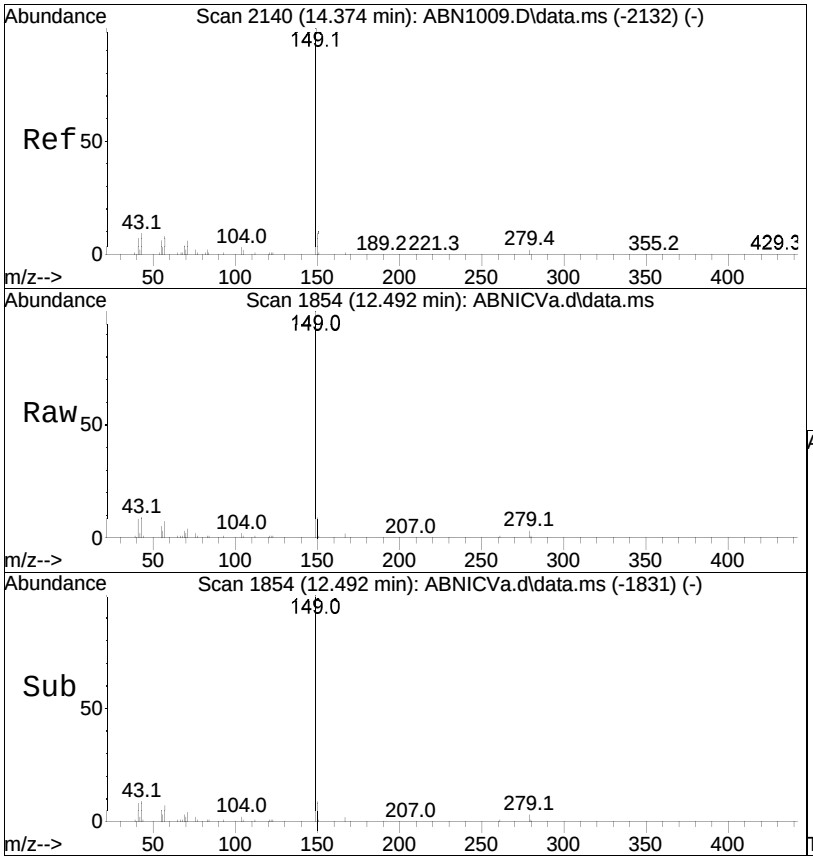


#107
Bis(2-ethylhexyl)phthalate
Concen: 4.13 ug/ml
RT: 11.810 min Scan# 1738
Delta R.T. 0.006 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:149 Resp: 95359

Ion	Ratio	Lower	Upper
149	100		
167	22.8	22.1	33.1
279	2.8	3.0	4.4#

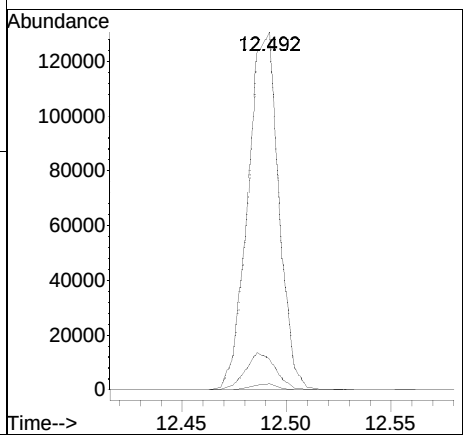


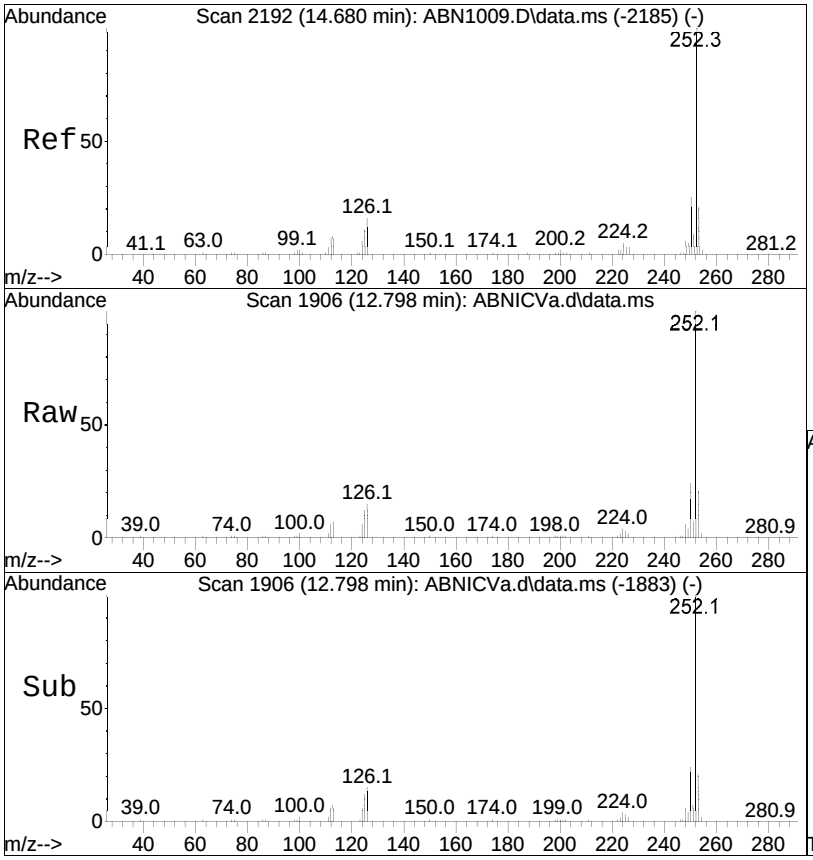


#108
Di-n-octylphthalate
Concen: 4.03 ug/ml
RT: 12.492 min Scan# 1854
Delta R.T. 0.012 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:149 Resp: 132388

Ion	Ratio	Lower	Upper
149	100		
43	10.3	18.8	28.2#
167	1.4	1.3	1.9

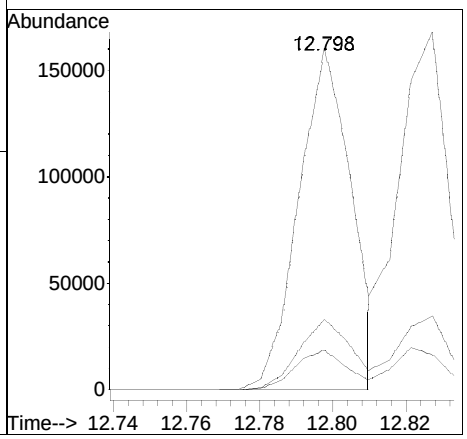


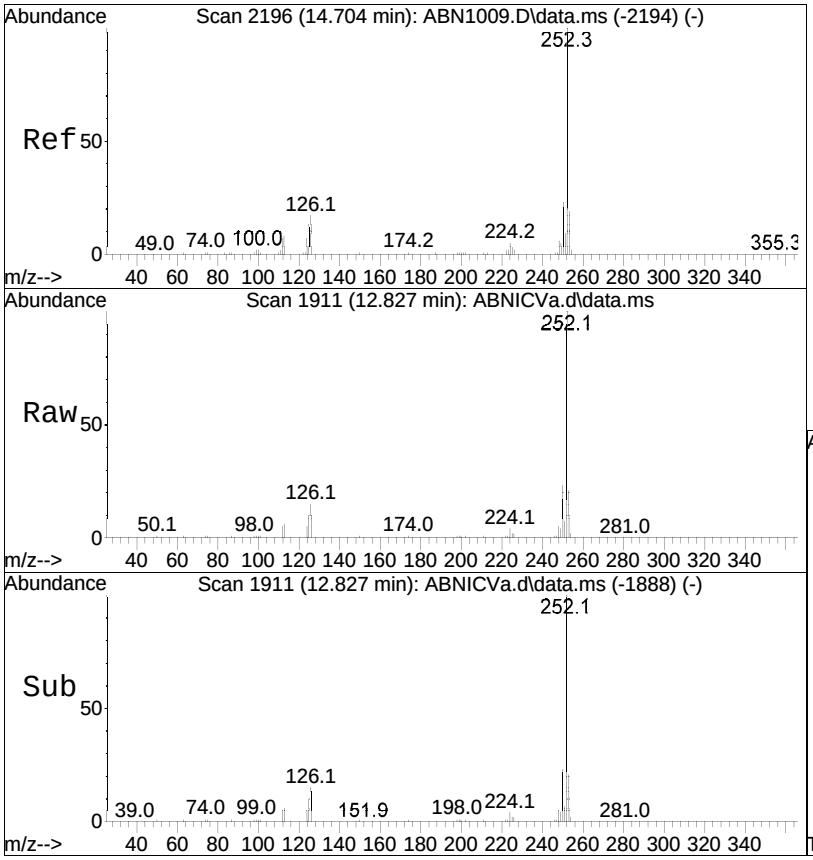


#109
Benzo(b)fluoranthene
Concen: 4.45 ug/ml
RT: 12.798 min Scan# 1906
Delta R.T. 0.012 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:252 Resp: 162061

Ion	Ratio	Lower	Upper
252	100		
125	11.7	13.3	19.9#
253	20.7	17.1	25.7

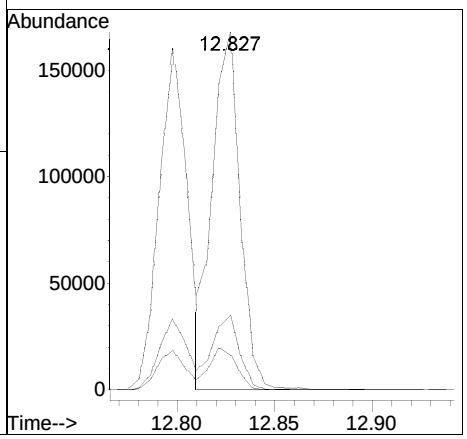


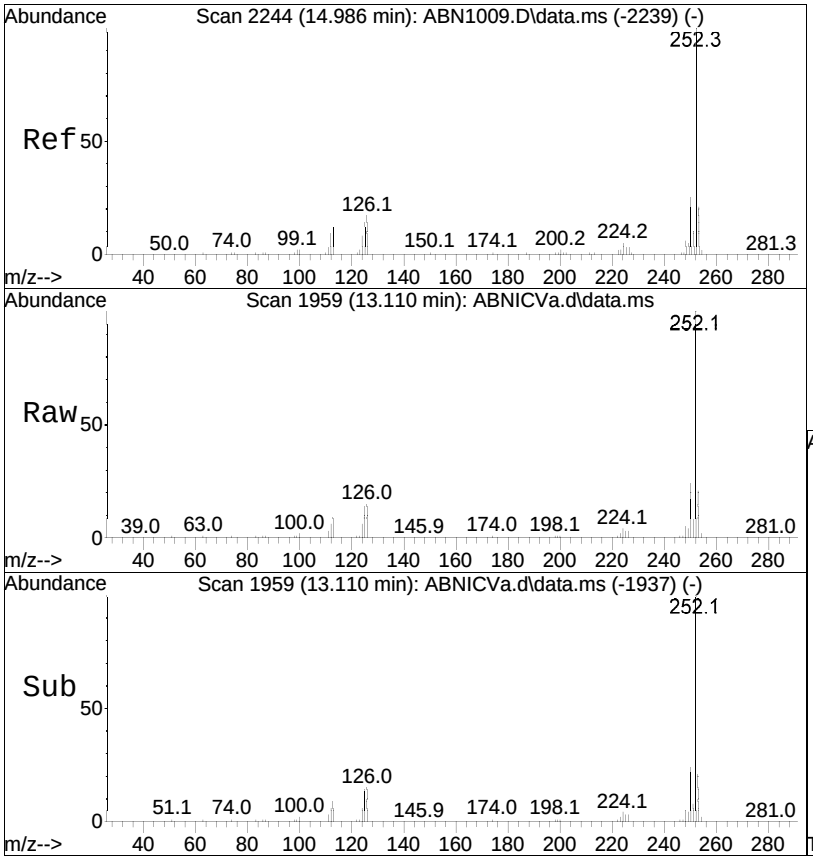


#110
Benzo(k)fluoranthene
Concen: 5.14 ug/ml
RT: 12.827 min Scan# 1911
Delta R.T. 0.011 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:252 Resp: 164694

Ion	Ratio	Lower	Upper
252	100		
125	11.5	13.0	19.6#
253	20.6	16.8	25.2

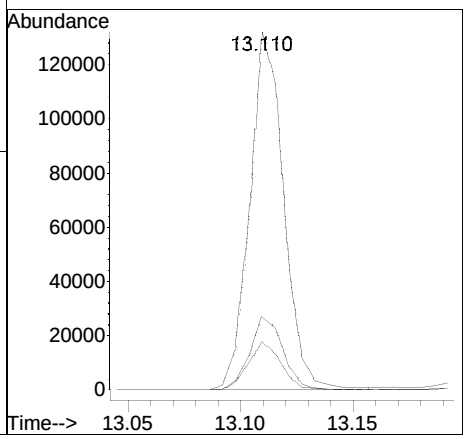


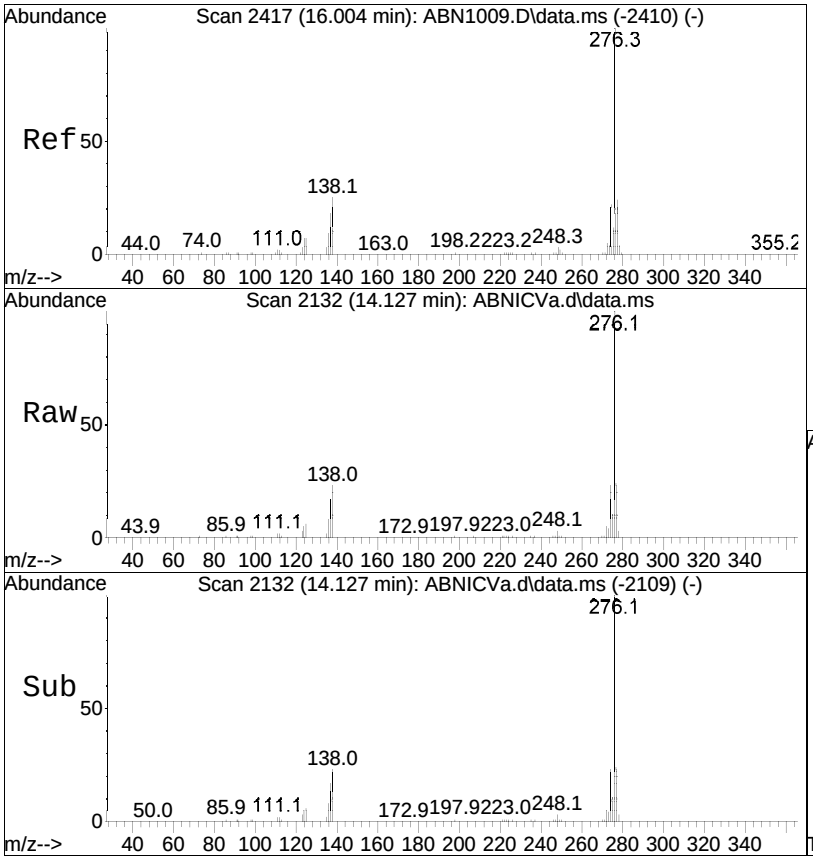


#111
Benzo(a)pyrene
Concen: 4.73 ug/ml
RT: 13.110 min Scan# 1959
Delta R.T. 0.006 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:252 Resp: 137719

Ion	Ratio	Lower	Upper
252	100		
125	13.3	14.2	21.2#
253	20.4	16.9	25.3

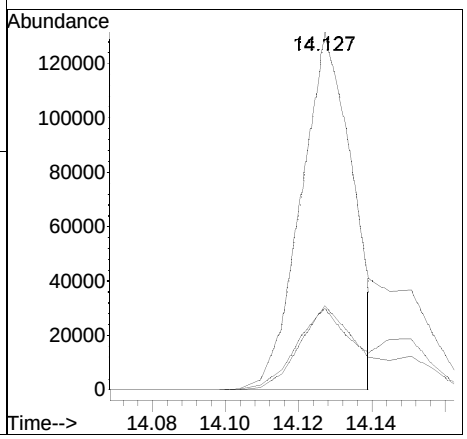


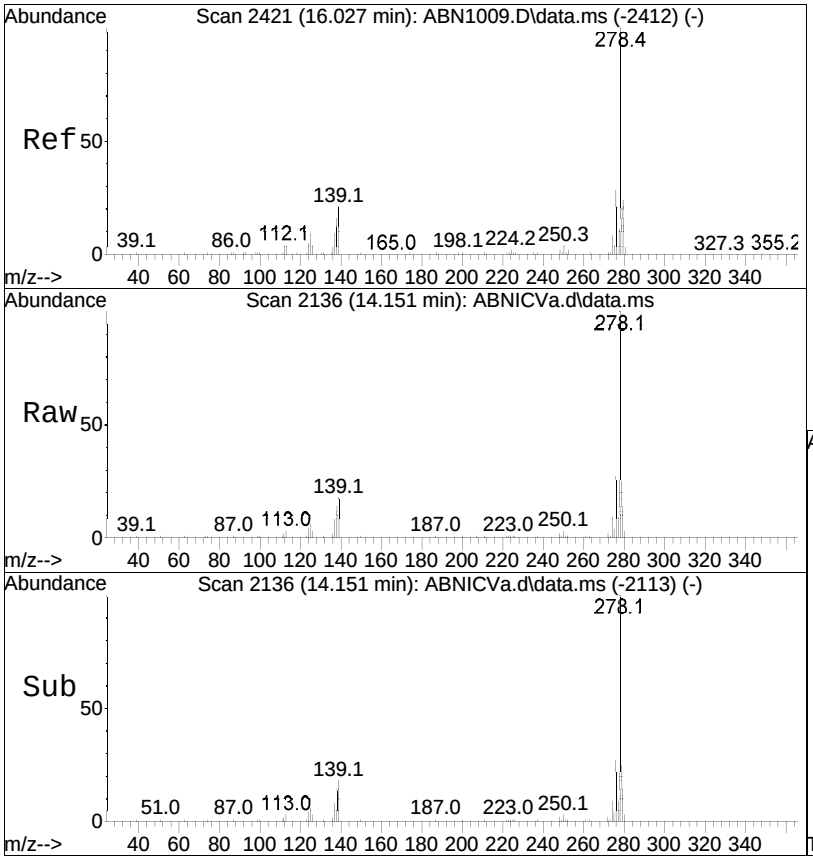


#113
Indeno(1,2,3-cd)pyrene
Concen: 4.21 ug/mL M6
RT: 14.127 min Scan# 2132
Delta R.T. 0.011 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:276 Resp: 130986

Ion	Ratio	Lower	Upper
276	100		
138	25.3	25.1	37.7
277	34.0	18.6	28.0#

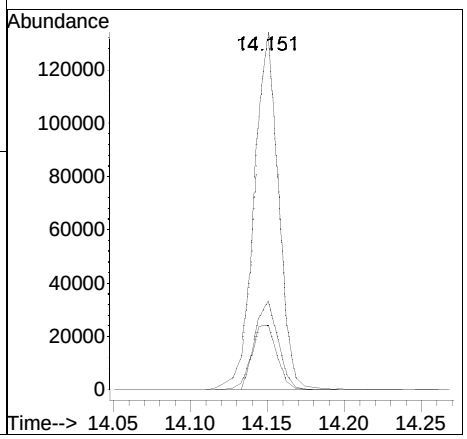


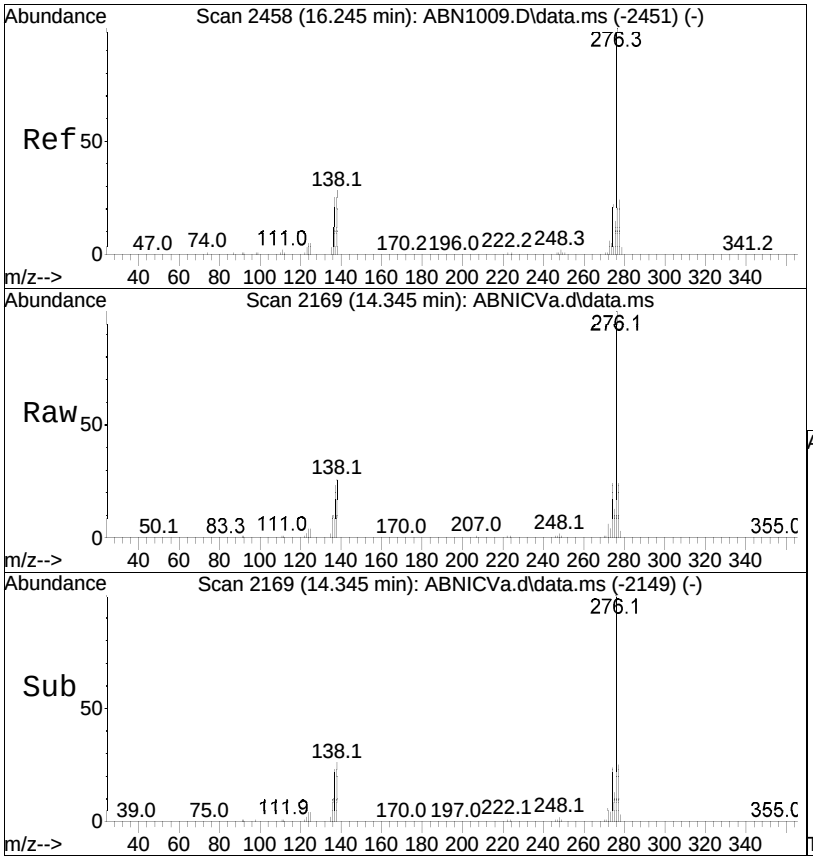


#114
Dibenzo(a,h)anthracene
Concen: 4.51 ug/ml
RT: 14.151 min Scan# 2136
Delta R.T. 0.012 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:278 Resp: 146843

Ion	Ratio	Lower	Upper
278	100		
139	18.1	20.8	31.2#
279	24.8	18.3	27.5

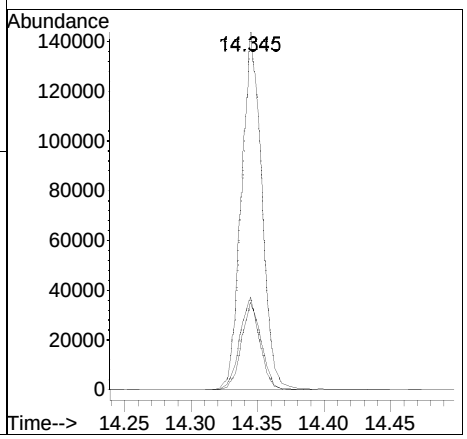




#115
Benzo(ghi)perylene
Concen: 4.70 ug/ml
RT: 14.345 min Scan# 2169
Delta R.T. -0.006 min
Lab File: ABNICVa.d
Acq: 13 Oct 2020 6:48 pm

Tgt Ion:276 Resp: 151700

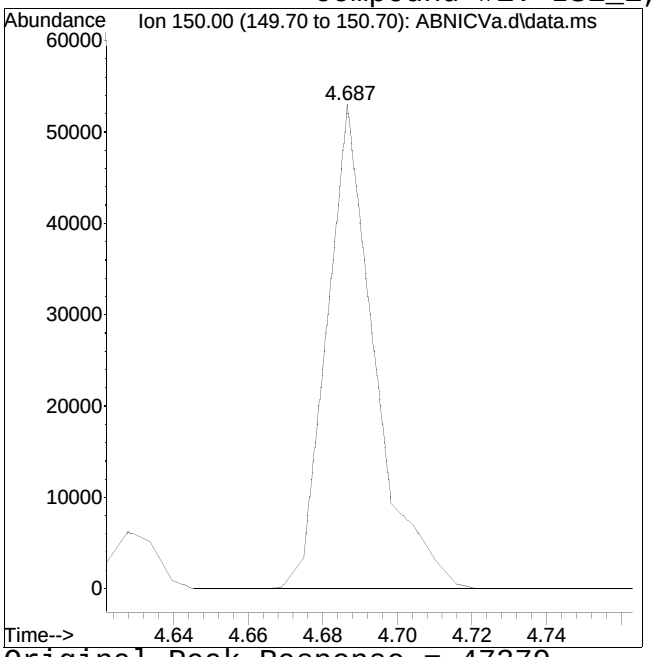
Ion	Ratio	Lower	Upper
276	100		
138	25.3	29.2	43.8#
277	24.0	18.8	28.2



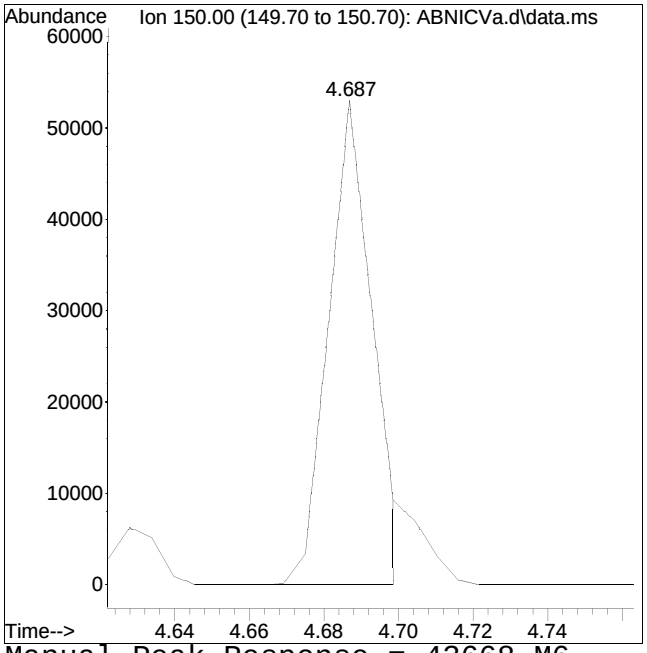
Manual Integration/Negative Proof Report

Data Path : I:\8270\SV124\201012ical\ QMethod : FS201012SV124.m
Data File : ABNICVa.d Operator : sv124:wr
Date Inj'd : 10/13/2020 6:48 pm Instrument : SV 124
Sample : CQICV1,32,,ABNICV #8982 Quant Date : 10/15/2020 3:41 pm

Compound #1: IS1_1,4-Dichlorobenzene-d4



Original Peak Response = 47379



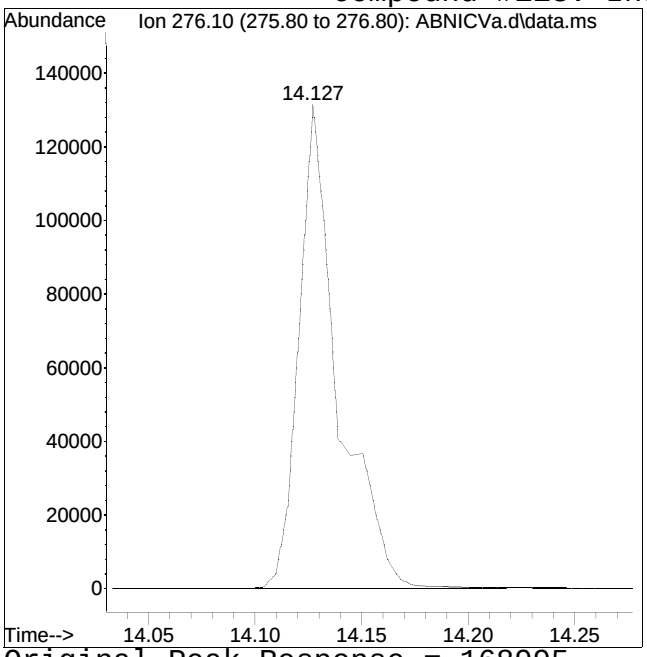
Manual Peak Response = 43668 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

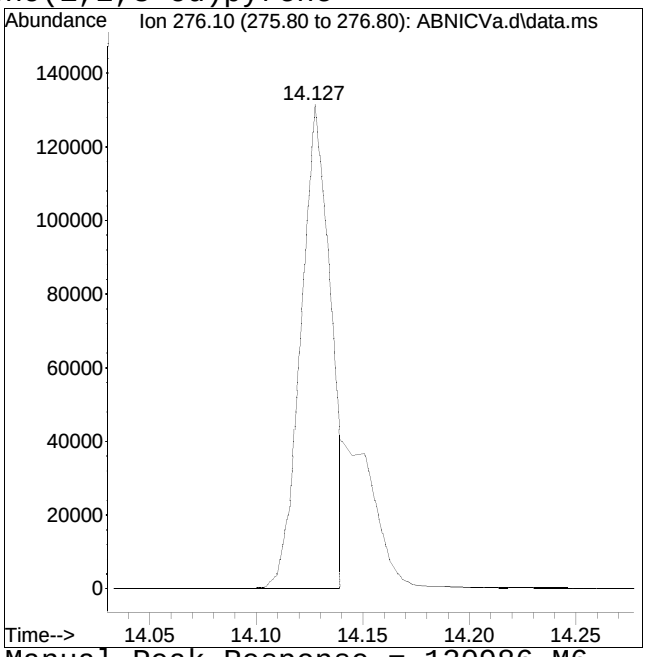
Manual Integration/Negative Proof Report

Data Path : I:\8270\SV124\201012ical\ QMethod : FS201012SV124.m
Data File : ABNICVa.d Operator : sv124:wr
Date Inj'd : 10/13/2020 6:48 pm Instrument : SV 124
Sample : CQICV1,32,,ABNICV #8982 Quant Date : 10/15/2020 3:41 pm

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 168995



Manual Peak Response = 130986 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Impact Environmental	**Lab Number**	: L2046790		
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209		
Instrument ID	: SV124	**Calibration Date**	: 10/28/20 22:14		
Lab File ID	: ABN1028	**Init. Calib. Date(s)**	: 10/12/20	10/13/20	
Sample No	: WG1426005-3	**Init. Calib. Times**	: 14:34	02:56	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	134	0
n-Nitrosodimethylamine	0.407	0.44	-	-8.1	20	148	0
Pyridine	0.701	0.622	-	11.3	20	120	0
2-Fluorophenol	0.647	0.673	-	-4	20	144	0
Aniline	1.086	1.106	-	-1.8	20	139	0
2-Chlorophenol	0.76	0.802	-	-5.5	20	143	0
Phenol-d6	0.785	0.865	-	-10.2	20	149	0
Phenol	0.955	1.018	-	-6.6	20	147	0
Bis(2-chloroethyl)ether	0.701	0.73	-	-4.1	20	144	0
1,3-Dichlorobenzene	0.907	0.923	-	-1.8	20	140	0
1,4-Dichlorobenzene	0.915	0.935	-	-2.2	20	139	0
1,2-Dichlorobenzene	0.888	0.888	-	0	20	138	0
Benzyl alcohol	0.565	0.569	-	-0.7	20	137	0
Bis(2-chloroisopropyl)ethe	1.059	1.075	-	-1.5	20	140	0
2-Methylphenol	0.656	0.696	-	-6.1	20	143	0
Hexachloroethane	0.35	0.335	-	4.3	20	134	0
n-Nitrosodi-n-propylamine	0.495	0.487	-	1.6	20	134	0
3-Methylphenol/4-Methylphe	0.696	0.747	-	-7.3	20	144	0
Nitrobenzene-d5	0.76	0.777	-	-2.2	20	137	0
Nitrobenzene	0.76	0.782	-	-2.9	20	139	0
Isophorone	1.348	1.348	-	0	20	133	0
2-Nitrophenol	0.393	0.399	-	-1.5	20	146	0
2,4-Dimethylphenol	0.747	0.776	-	-3.9	20	138	0
Bis(2-chloroethoxy)methane	0.928	0.921	-	0.8	20	135	0
2,4-Dichlorophenol	0.668	0.691	-	-3.4	20	136	0
1,2,4-Trichlorobenzene	0.77	0.773	-	-0.4	20	137	0
IS1_Naphthalene-d8	1	1	-	0	20	136	0
Naphthalene	1.035	1.043	-	-0.8	20	139	0
Benzoic Acid	5	5.217	-	-4.3	20	156	0
4-Chloroaniline	0.118	0.113	-	4.2	20	135	0
Hexachlorobutadiene	0.191	0.189	-	1	20	136	0
p-Chloro-m-cresol	0.271	0.274	-	-1.1	20	140	0
2-Methylnaphthalene	0.705	0.701	-	0.6	20	136	0
1-Methylnaphthalene	0.237	0.23	-	3	20	134	0
Hexachlorocyclopentadiene	0.253	0.234	-	7.5	20	131	0
2,4,6-Trichlorophenol	0.216	0.211	-	2.3	20	138	0
2,4,5-Trichlorophenol	0.234	0.231	-	1.3	20	134	0
2-Fluorobiphenyl	0.806	0.766	-	5	20	131	0
2-Chloronaphthalene	0.674	0.665	-	1.3	20	135	0
2-Nitroaniline	0.192	0.178	-	7.3	20	132	0
1,4-Dinitrobenzene	0.104	0.089	-	14.4	20	127	0
1,3-Dinitrobenzene	0.118	0.106	-	10.2	20	132	0
Dimethyl phthalate	0.797	0.771	-	3.3	20	129	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Impact Environmental	**Lab Number**	: L2046790		
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209		
Instrument ID	: SV124	**Calibration Date**	: 10/28/20 22:14		
Lab File ID	: ABN1028	**Init. Calib. Date(s)**	: 10/12/20	10/13/20	
Sample No	: WG1426005-3	**Init. Calib. Times**	: 14:34	02:56	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.065	1.084	-	-1.8	20	133	0
2,6-Dinitrotoluene	0.165	0.156	-	5.5	20	128	0
1,2-Dinitrobenzene	0.078	0.071	-	9	20	129	0
IS1_Acenaphthene-d10	1	1	-	0	20	133	0
3-Nitroaniline	0.331	0.32	-	3.3	20	128	0
Acenaphthene	1.185	1.16	-	2.1	20	132	0
2,4-Dinitrophenol	5	5.054	-	-1.1	20	140	0
Dibenzofuran	1.818	1.765	-	2.9	20	130	0
2,4-Dinitrotoluene	0.404	0.388	-	4	20	128	0
4-Nitrophenol	0.252	0.242	-	4	20	135	0
2,3,5,6-Tetrachlorophenol	0.366	0.346	-	5.5	20	132	0
2,3,4,6-Tetrachlorophenol	0.352	0.342	-	2.8	20	130	0
Diethyl phthalate	1.46	1.371	-	6.1	20	123	0
Fluorene	1.386	1.362	-	1.7	20	129	0
4-Chlorophenyl phenyl ethe	0.684	0.642	-	6.1	20	126	0
4-Nitroaniline	0.327	0.304	-	7	20	125	0
4,6-Dinitro-o-cresol	5	4.988	-	0.2	20	145	0
NDPA/DPA	1.159	1.155	-	0.3	20	128	0
Azobenzene	1.361	1.263	-	7.2	20	121	0
2,4,6-Tribromophenol	5	4.929	-	1.4	20	134	0
4-Bromophenyl phenyl ether	0.407	0.38	-	6.6	20	126	0
Hexachlorobenzene	0.473	0.44	-	7	20	125	0
Pentachlorophenol	0.285	0.252	-	11.6	20	124	0
IS1_Phenanthrene-d10	1	1	-	0	20	131	0
Phenanthrene	1.128	1.121	-	0.6	20	129	0
Anthracene	1.086	1.092	-	-0.6	20	130	0
Carbazole	0.982	1.008	-	-2.6	20	132	0
Di-n-butylphthalate	1.238	1.079	-	12.8	20	120	0
Fluoranthene	1.172	1.203	-	-2.6	20	131	0
Benzidine	0.832	0.698	-	16.1	20	126	0
Pyrene	1.235	1.288	-	-4.3	20	131	0
4-Terphenyl-d14	0.945	0.931	-	1.5	20	127	0
Butyl benzyl phthalate	5	4.539	-	9.2	20	124	0
IS1_Chrysene-d12	1	1	-	0	20	135	0
Benzo(a)anthracene	1.176	1.159	-	1.4	20	133	0
3,3'-Dichlorobenzidine	0.445	0.422	-	5.2	20	132	0
Chrysene	1.205	1.188	-	1.4	20	134	0
Bis(2-ethylhexyl)phthalate	5	4.035	-	19.3	20	116	0
Di-n-octylphthalate	5	4.313	-	13.7	20	122	0
Benzo(b)fluoranthene	1.228	1.221	-	0.6	20	132	0
Benzo(k)fluoranthene	1.079	1.209	-	-12	20	151	0
Benzo(a)pyrene	0.981	1.064	-	-8.5	20	144	0
IS1_Perylene-d12	1	1	-	0	20	143	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Impact Environmental		**Lab Number**	: L2046790	
Project Name	: 13-12 BEACH CHANNEL DRIVE		**Project Number**	: 15209	
Instrument ID	: SV124		**Calibration Date**	: 10/28/20 22:14	
Lab File ID	: ABN1028		**Init. Calib. Date(s)**	: 10/12/20	10/13/20
Sample No	: WG1426005-3		**Init. Calib. Times**	: 14:34	02:56
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.097	1.105	-	-0.7	20	147	0
Dibenzo(a,h)anthracene	1.148	1.192	-	-3.8	20	149	0
Benzo(ghi)perylene	1.137	1.195	-	-5.1	20	151	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Impact Environmental	**Lab Number**	: L2046790		
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209		
Instrument ID	: SV124	**Calibration Date**	: 10/28/20 22:37		
Lab File ID	: AP91028	**Init. Calib. Date(s)**	: 10/12/20	10/13/20	
Sample No	: WG1426005-4	**Init. Calib. Times**	: 14:34	02:56	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	130	0
Benzaldehyde	0.616	0.622	-	-1	20	134	0
Acetophenone	1.062	1.048	-	1.3	20	134	0
m-Toluidine	1.121	1.116	-	0.4	20	132	0
2-Chloroaniline	1.027	1.056	-	-2.8	20	135	0
IS2_Naphthalene-d8	1	1	-	0	20	131	0
a-Terpineol	0.232	0.23	-	0.9	20	134	0
3-Chloroaniline	0.133	0.129	-	3	20	132	0
2,6-Dichlorophenol	0.264	0.276	-	-4.5	20	142	0
1-chloro-2-nitrobenzene	0.13	0.128	-	1.5	20	133	0
Caprolactam	5	5.303	-	-6.1	20	154	0
1,2,4,5-Tetrachlorobenzene	0.337	0.322	-	4.5	20	124	0
Biphenyl	0.865	0.849	-	1.8	20	128	0
IS2_Acenaphthene-d10	1	1	-	0	20	129	0
Dichloran	5	4.879	-	2.4	20	140	0
Pentachloronitrobenzene	5	4.925	-	1.5	20	133	0
IS2_Phenanthrene-d10	1	1	-	0	20	135	0
Diphenamid	5	4.883	-	2.3	20	140	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Impact Environmental		**Lab Number**	: L2046790	
Project Name	: 13-12 BEACH CHANNEL DRIVE		**Project Number**	: 15209	
Instrument ID	: SV124		**Calibration Date**	: 10/28/20 23:01	
Lab File ID	: ADP1028		**Init. Calib. Date(s)**	: 10/12/20	10/13/20
Sample No	: WG1426005-5		**Init. Calib. Times**	: 14:34	02:56
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	118	0
n-Decane	0.769	0.762	-	0.9	20	119	0
IS3_Acenaphthene-d10	1	1	-	0	20	109	0
Atrazine	5	4.648	-	7	20	103	0
IS3_Phenanthrene-d10	1	1	-	0	20	101	0
n-Octadecane	0.376	0.35	-	6.9	20	97	0
Parathion	5	4.378	-	12.4	20	98	0
3,3'-Dimethylbenzidine	5	4.43	-	11.4	20	100	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV124\201028lvi\
Data File : ABN1028.d
Acq On : 28 Oct 2020 10:14 pm
Operator : SV124:jg
Sample : WG1426005-3,32,,ABN LVI Lot # 8879
Misc : WG1426005,,ical17255
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Oct 28 22:51:44 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 28 22:51:12 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	134	0.00
2	t	n-Nitrosodimethylamine		0.407	0.440	-8.1	148	0.00
3	t	Pyridine		0.701	0.622	11.3	120	0.00
4	S	2-Fluorophenol		0.647	0.673	-4.0	144	0.00
5	T	Aniline		1.086	1.106	-1.8	139	0.00
6	t	2-Chlorophenol		0.760	0.802	-5.5	143	0.00
7	S	Phenol-d6		0.785	0.865	-10.2	149	0.00
8	T	Phenol		0.955	1.018	-6.6	147	0.00
9	T	Bis(2-chloroethyl)ether		0.701	0.730	-4.1	144	0.00
10	T	1,3-Dichlorobenzene		0.907	0.923	-1.8	140	0.00
11	T	1,4-Dichlorobenzene		0.915	0.935	-2.2	139	0.00
12	T	1,2-Dichlorobenzene		0.888	0.888	0.0	138	0.00
13	t	Benzyl alcohol		0.565	0.569	-0.7	137	0.00
14	T	Bis(2-chloroisopropyl)ether		1.059	1.075	-1.5	140	0.00
15	T	2-Methylphenol		0.656	0.696	-6.1	143	0.00
16	T	Hexachloroethane		0.350	0.335	4.3	134	0.00
17	T	n-Nitrosodi-n-propylamine		0.495	0.487	1.6	134	0.00
18	T	3-Methylphenol/4-Methylphen		0.696	0.747	-7.3	144	0.00
19	S	Nitrobenzene-d5		0.760	0.777	-2.2	137	0.00
20	T	Nitrobenzene		0.760	0.782	-2.9	139	0.00
21	T	Isophorone		1.348	1.348	0.0	133	0.00
22	T	2-Nitrophenol		0.393	0.399	-1.5	146	0.00
23	T	2,4-Dimethylphenol		0.747	0.776	-3.9	138	0.00
24	T	Bis(2-chloroethoxy)methane		0.928	0.921	0.8	135	0.00
25	T	2,4-Dichlorophenol		0.668	0.691	-3.4	136	0.00
26	T	1,2,4-Trichlorobenzene		0.770	0.773	-0.4	137	0.00
34	I	IS1_Naphthalene-d8		1.000	1.000	0.0	136	0.00
35	T	Naphthalene		1.035	1.043	-0.8	139	0.00
36	T	Benzoic Acid	*	5.000	5.217	-4.3	156	0.00
37	T	4-Chloroaniline		0.118	0.113	4.2	135	0.00
38	T	Hexachlorobutadiene		0.191	0.189	1.0	136	0.00
39	T	p-Chloro-m-cresol		0.271	0.274	-1.1	140	0.00
40	T	2-Methylnaphthalene		0.705	0.701	0.6	136	0.00
41	T	1-Methylnaphthalene		0.237	0.230	3.0	134	0.00
42	T	Hexachlorocyclopentadiene		0.253	0.234	7.5	131	0.00
43	T	2,4,6-Trichlorophenol		0.216	0.211	2.3	138	0.00
44	T	2,4,5-Trichlorophenol		0.234	0.231	1.3	134	0.00
45	S	2-Fluorobiphenyl		0.806	0.766	5.0	131	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV124\201028lvi\
Data File : ABN1028.d
Acq On : 28 Oct 2020 10:14 pm
Operator : SV124:jg
Sample : WG1426005-3,32,,ABN LVI Lot # 8879
Misc : WG1426005,,ical17255
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Oct 28 22:51:44 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 28 22:51:12 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.674	0.665	1.3	135	0.00
47	T	2-Nitroaniline		0.192	0.178	7.3	132	0.00
48	T	1,4-Dinitrobenzene		0.104	0.089	14.4	127	0.00
49	T	1,3-Dinitrobenzene		0.118	0.106	10.2	132	0.00
50	T	Dimethyl phthalate		0.797	0.771	3.3	129	0.00
51	T	Acenaphthylene		1.065	1.084	-1.8	133	0.00
52	T	2,6-Dinitrotoluene		0.165	0.156	5.5	128	0.00
53	T	1,2-Dinitrobenzene		0.078	0.071	9.0	129	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	133	0.00
63	T	3-Nitroaniline		0.331	0.320	3.3	128	0.00
64	T	Acenaphthene		1.185	1.160	2.1	132	0.00
65	T	2,4-Dinitrophenol	*	5.000	5.054	-1.1	140	0.00
66	T	Dibenzofuran		1.818	1.765	2.9	130	0.00
67	T	2,4-Dinitrotoluene		0.404	0.388	4.0	128	0.00
68	T	4-Nitrophenol		0.252	0.242	4.0	135	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.366	0.346	5.5	132	0.00
70	T	2,3,4,6-Tetrachlorophenol		0.352	0.342	2.8	130	0.00
71	T	Diethyl phthalate		1.460	1.371	6.1	123	0.00
72	T	Fluorene		1.386	1.362	1.7	129	0.00
73	T	4-Chlorophenyl phenyl ether		0.684	0.642	6.1	126	0.00
74	T	4-Nitroaniline		0.327	0.304	7.0	125	0.00
75	T	4,6-Dinitro-o-cresol	*	5.000	4.988	0.2	145	0.00
76	T	NDPA/DPA		1.159	1.155	0.3	128	0.00
77	T	Azobenzene		1.361	1.263	7.2	121	0.00
78	S	2,4,6-Tribromophenol	*	5.000	4.929	1.4	134	0.00
79	T	4-Bromophenyl phenyl ether		0.407	0.380	6.6	126	0.00
80	T	Hexachlorobenzene		0.473	0.440	7.0	125	0.00
81	T	Pentachlorophenol		0.285	0.252	11.6	124	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	131	0.00
88	T	Phenanthrene		1.128	1.121	0.6	129	0.00
89	T	Anthracene		1.086	1.092	-0.6	130	0.00
90	T	Carbazole		0.982	1.008	-2.6	132	0.00
91	T	Di-n-butylphthalate		1.238	1.079	12.8	120	0.00
92	T	Fluoranthene		1.172	1.203	-2.6	131	0.00
93	T	Benzidine		0.832	0.698	16.1	126	0.00
94	T	Pyrene		1.235	1.288	-4.3	131	0.00
95	S	4-Terphenyl-d14		0.945	0.931	1.5	127	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV124\201028lvi\
Data File : ABN1028.d
Acq On : 28 Oct 2020 10:14 pm
Operator : SV124:jg
Sample : WG1426005-3,32,,ABN LVI Lot # 8879
Misc : WG1426005,,ical17255
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Oct 28 22:51:44 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 28 22:51:12 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	*	5.000	4.539	9.2	124	0.00
103	I	IS1_Chrysene-d12		1.000	1.000	0.0	135	0.00
104	T	Benzo(a)anthracene		1.176	1.159	1.4	133	0.00
105	T	3,3'-Dichlorobenzidine		0.445	0.422	5.2	132	0.00
106	T	Chrysene		1.205	1.188	1.4	134	0.00
107	T	Bis(2-ethylhexyl)phthalate	*	5.000	4.035	19.3	116	0.00
108	T	Di-n-octylphthalate	*	5.000	4.313	13.7	122	0.00
109	T	Benzo(b)fluoranthene		1.228	1.221	0.6	132	0.00
110	T	Benzo(k)fluoranthene		1.079	1.209	-12.0	151	0.00
111	T	Benzo(a)pyrene		0.981	1.064	-8.5	144	0.00
112	I	IS1_Perylene-d12		1.000	1.000	0.0	143	0.00
113	T	Indeno(1,2,3-cd)pyrene		1.097	1.105	-0.7	147	0.00
114	T	Dibenzo(a,h)anthracene		1.148	1.192	-3.8	149	0.00
115	T	Benzo(ghi)perylene		1.137	1.195	-5.1	151	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201028lvi\
Data File : ABN1028.d
Acq On : 28 Oct 2020 10:14 pm
Operator : SV124:jg
Sample : WG1426005-3,32,,ABN LVI Lot # 8879
Misc : WG1426005,,ical17255
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Oct 28 22:51:44 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 28 22:51:12 2020
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.507	150	71509M6	4.000	ug/ml	0.00
34) IS1_Naphthalene-d8	5.748	136	170374	4.000	ug/ml	0.00
62) IS1_Acenaphthene-d10	7.460	164	94617	4.000	ug/ml	0.00
87) IS1_Phenanthrene-d10	8.895	188	179611	4.000	ug/ml	0.00
103) IS1_Chrysene-d12	11.530	240	190256	4.000	ug/ml	0.00
112) IS1_Perylene-d12	12.995	264	196697	4.000	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.213	112	60127	5.196	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 103.92%			
7) Phenol-d6	4.190	99	77322	5.512	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 110.24%#			
19) Nitrobenzene-d5	5.054	82	69474	5.111	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 204.44%#			
45) 2-Fluorobiphenyl	6.831	172	163122	4.750	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 190.00%#			
78) 2,4,6-Tribromophenol	8.230	330	25503	4.929	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 98.58%			
95) 4-Terphenyl-d14	10.489	244	209079	4.929	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 197.16%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.801	74	39357	5.412	ug/ml#	72
3) Pyridine	1.837	79	55556	4.431	ug/ml#	57
5) Aniline	4.184	93	98860	5.091	ug/ml#	55
6) 2-Chlorophenol	4.295	128	71693	5.274	ug/ml#	87
8) Phenol	4.201	94	91016	5.333	ug/ml#	60
9) Bis(2-chloroethyl)ether	4.272	93	65271	5.206	ug/ml	91
10) 1,3-Dichlorobenzene	4.448	146	82509	5.090	ug/ml	97
11) 1,4-Dichlorobenzene	4.519	146	83592	5.108	ug/ml	97
12) 1,2-Dichlorobenzene	4.672	146	79399	4.999	ug/ml	96
13) Benzyl alcohol	4.666	79	50893	5.043	ug/ml	97
14) Bis(2-chloroisopropyl)...	4.813	45	96120	5.079	ug/ml#	53
15) 2-Methylphenol	4.801	108	62244	5.307	ug/ml	99
16) Hexachloroethane	4.995	117	29900	4.780	ug/ml#	75
17) n-Nitrosodi-n-propylamine	4.937	70	43549	4.920	ug/ml	96
18) 3-Methylphenol/4-Methy...	4.954	108	66812	5.370	ug/ml	99
20) Nitrobenzene	5.072	77	69885	5.143	ug/ml	98
21) Isophorone	5.319	82	120535	5.001	ug/ml	98
22) 2-Nitrophenol	5.389	139	35649	5.073	ug/ml#	86

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201028lvi\
Data File : ABN1028.d
Acq On : 28 Oct 2020 10:14 pm
Operator : SV124:jg
Sample : WG1426005-3,32,,ABN LVI Lot # 8879
Misc : WG1426005,,ical17255
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Oct 28 22:51:44 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 28 22:51:12 2020
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	5.472	107	69328	5.189	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.560	93	82310	4.962	ug/ml	98
25) 2,4-Dichlorophenol	5.631	162	61746	5.174	ug/ml	95
26) 1,2,4-Trichlorobenzene	5.707	180	69116	5.018	ug/ml	98
35) Naphthalene	5.772	128	222226	5.042	ug/ml	99
36) Benzoic Acid	5.548	105	43340	5.217	ug/ml	94
37) 4-Chloroaniline	5.848	65	24040	4.795	ug/ml#	63
38) Hexachlorobutadiene	5.925	225	40244	4.940	ug/ml	96
39) p-Chloro-m-cresol	6.348	107	58388	5.067	ug/ml	98
40) 2-Methylnaphthalene	6.454	142	149291	4.970	ug/ml	96
41) 1-Methylnaphthalene	6.548	115	48960	4.850	ug/ml	98
42) Hexachlorocyclopentadiene	6.625	237	49886	4.621	ug/ml	100
43) 2,4,6-Trichlorophenol	6.748	196	44935	4.888	ug/ml	99
44) 2,4,5-Trichlorophenol	6.772	196	49265	4.944	ug/ml	97
46) 2-Chloronaphthalene	6.925	162	141600	4.932	ug/ml	98
47) 2-Nitroaniline	7.036	138	37946	4.648	ug/ml	84
48) 1,4-Dinitrobenzene	7.172	168	18972	4.302	ug/ml	82
49) 1,3-Dinitrobenzene	7.248	168	22639	4.500	ug/ml#	1
50) Dimethyl phthalate	7.242	163	164262	4.836	ug/ml#	99
51) Acenaphthylene	7.319	152	230762	5.086	ug/ml	99
52) 2,6-Dinitrotoluene	7.283	165	33322	4.756	ug/ml#	79
53) 1,2-Dinitrobenzene	7.325	168	15139	4.538	ug/ml#	1
63) 3-Nitroaniline	7.436	138	37863	4.839	ug/ml#	93
64) Acenaphthene	7.495	154	137151	4.893	ug/ml	92
65) 2,4-Dinitrophenol	7.542	184	19714	5.054	ug/ml	93
66) Dibenzofuran	7.666	168	208719	4.854	ug/ml	98
67) 2,4-Dinitrotoluene	7.672	165	45870	4.797	ug/ml	96
68) 4-Nitrophenol	7.636	65	28614	4.798	ug/ml#	78
69) 2,3,5,6-Tetrachlorophenol	7.754	232	40898	4.725	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	7.795	232	40492	4.866	ug/ml	98
71) Diethyl phthalate	7.936	149	162165	4.696	ug/ml	99
72) Fluorene	7.995	166	161089	4.915	ug/ml	96
73) 4-Chlorophenyl phenyl ...	8.019	204	75920	4.692	ug/ml	95
74) 4-Nitroaniline	8.030	138	35903	4.637	ug/ml	83
75) 4,6-Dinitro-o-cresol	8.066	198	25819	4.988	ug/ml#	61
76) NDPA/DPA	8.136	169	136563	4.983	ug/ml	96
77) Azobenzene	8.166	77	149358	4.639	ug/ml	97
79) 4-Bromophenyl phenyl e...	8.489	248	44974	4.670	ug/ml#	88
80) Hexachlorobenzene	8.536	284	52076	4.651	ug/ml#	87
81) Pentachlorophenol	8.730	266	29827	4.428	ug/ml	99
88) Phenanthrene	8.919	178	251638	4.970	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201028lvi\
Data File : ABN1028.d
Acq On : 28 Oct 2020 10:14 pm
Operator : SV124:jg
Sample : WG1426005-3,32,,ABN LVI Lot # 8879
Misc : WG1426005,,ical17255
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Oct 28 22:51:44 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 28 22:51:12 2020
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) Anthracene	8.966	178	245133	5.029	ug/ml	99
90) Carbazole	9.142	167	226354	5.133	ug/ml	98
91) Di-n-butylphthalate	9.542	149	242352	4.361	ug/ml	99
92) Fluoranthene	10.077	202	270159	5.133	ug/ml#	93
93) Benzidine	10.236	184	156688	4.196	ug/ml#	95
94) Pyrene	10.289	202	289278	5.214	ug/ml	99
96) Butyl benzyl phthalate	11.019	149	95754	4.539	ug/ml	90
104) Benzo(a)anthracene	11.518	228	275632	4.927	ug/ml	99
105) 3,3'-Dichlorobenzidine	11.530	252	100255	4.734	ug/ml	98
106) Chrysene	11.560	228	282463	4.929	ug/ml	98
107) Bis(2-ethylhexyl)phtha...	11.660	149	149119	4.035	ug/ml#	91
108) Di-n-octylphthalate	12.336	149	229461	4.313	ug/ml#	73
109) Benzo(b)fluoranthene	12.624	252	290494	4.974	ug/ml#	95
110) Benzo(k)fluoranthene	12.654	252	287556	5.601	ug/ml#	94
111) Benzo(a)pyrene	12.936	252	253121	5.427	ug/ml#	95
113) Indeno(1,2,3-cd)pyrene	13.954	276	271789M6	5.036	ug/mL	
114) Dibenzo(a,h)anthracene	13.977	278	293201	5.192	ug/ml#	92
115) Benzo(ghi)perylene	14.165	276	293937	5.258	ug/ml#	88

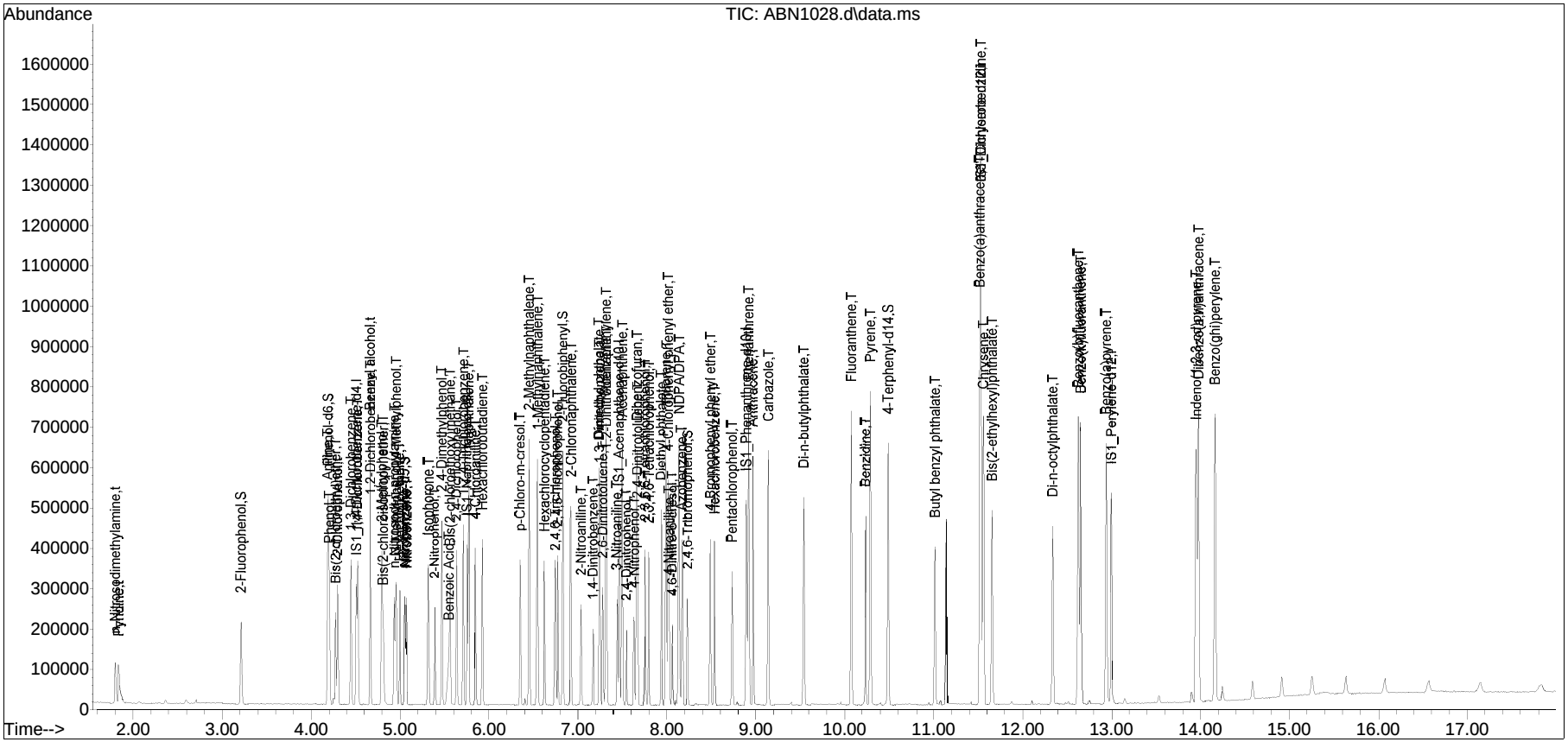
(#) = qualifier out of range (m) = manual integration (+) = signals summed

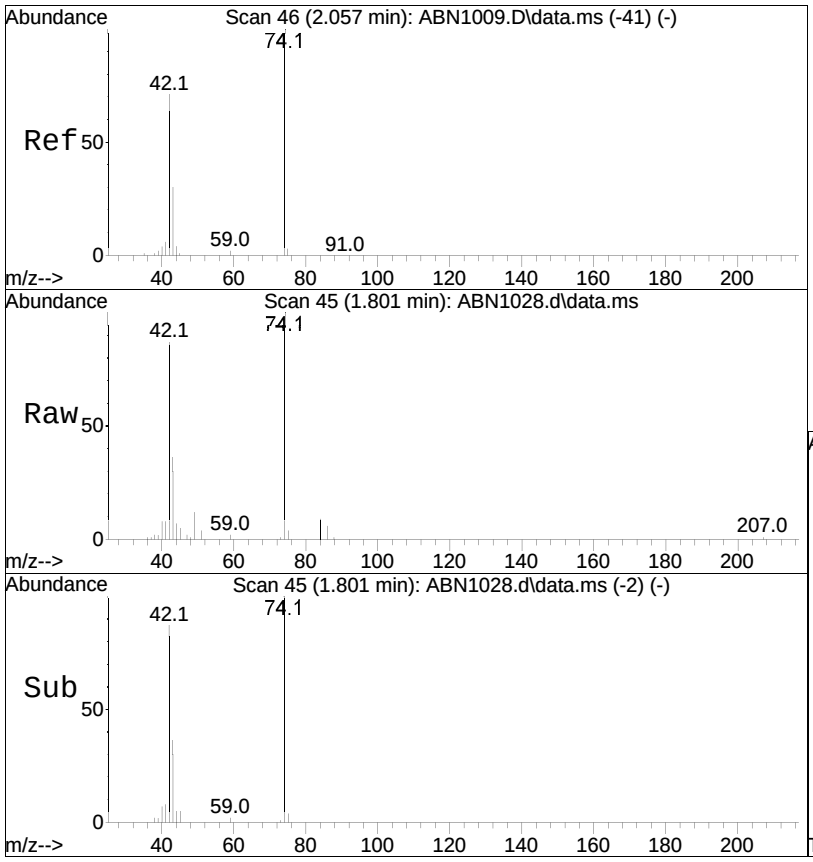
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201028lvi\
Data File : ABN1028.d
Acq On : 28 Oct 2020 10:14 pm
Operator : SV124:jg
Sample : WG1426005-3,32,,ABN LVI Lot # 8879
Misc : WG1426005,,ical17255
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Oct 28 22:51:44 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 28 22:51:12 2020
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

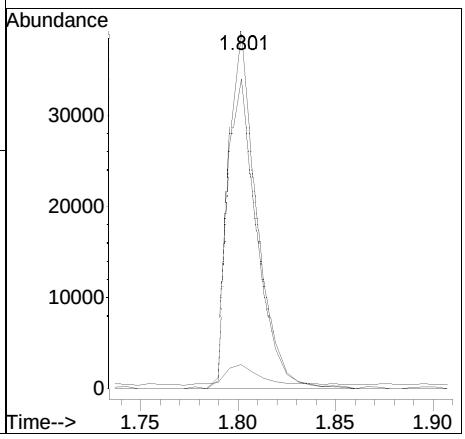


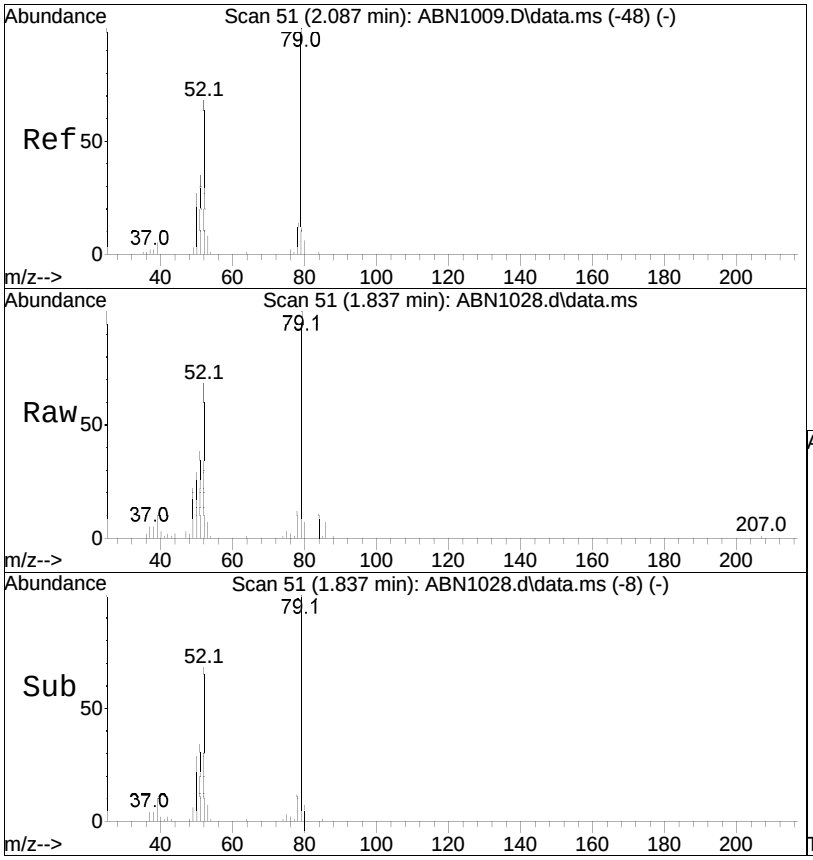


#2
n-Nitrosodimethylamine
Concen: 5.41 ug/ml
RT: 1.801 min Scan# 45
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion: 74 Resp: 39357

Ion	Ratio	Lower	Upper
74	100		
42	91.0	100.0	150.0#
44	7.4	6.7	10.1

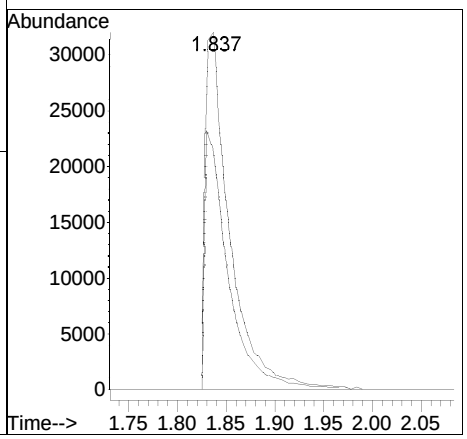


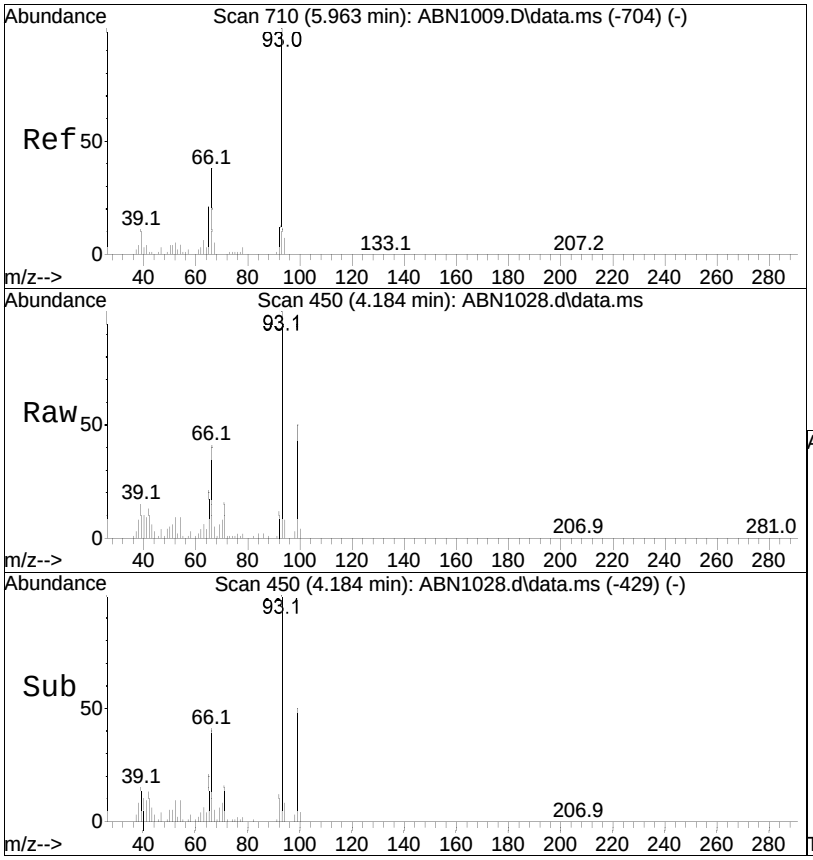


#3
Pyridine
Concen: 4.43 ug/ml
RT: 1.837 min Scan# 51
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion: 79 Resp: 55556

Ion	Ratio	Lower	Upper
79	100		
52	69.5	93.1	139.7#

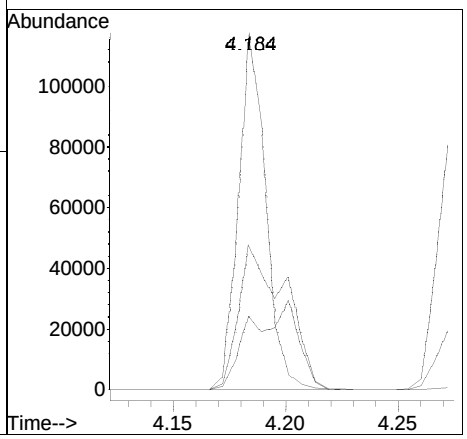


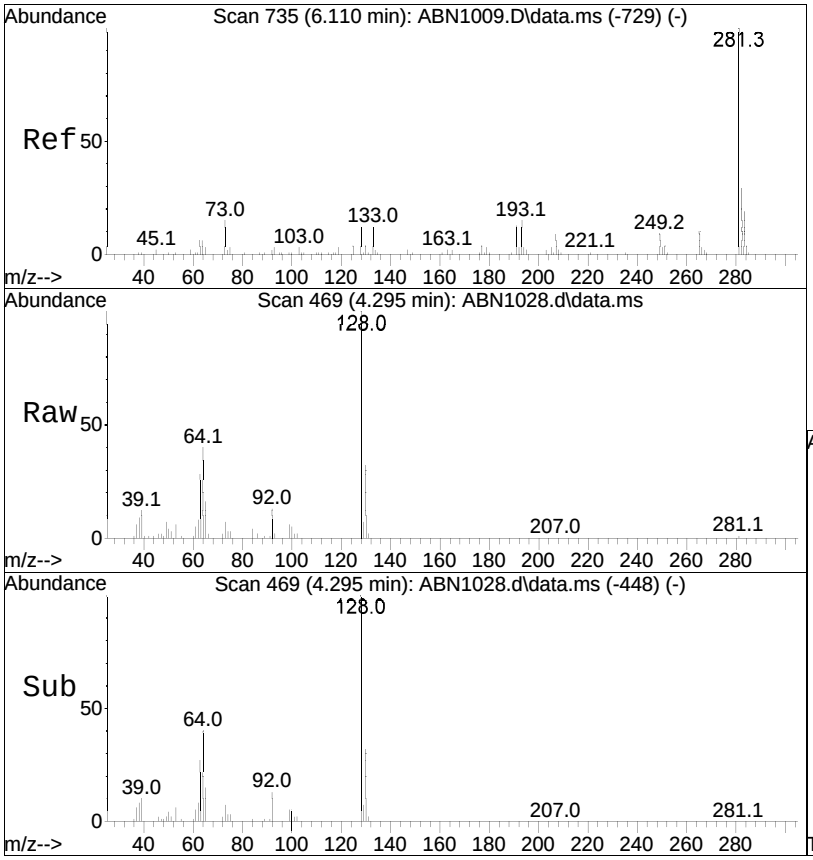


#5
Aniline
Concen: 5.09 ug/ml
RT: 4.184 min Scan# 450
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion: 93 Resp: 98860

Ion	Ratio	Lower	Upper
93	100		
66	69.2	32.6	49.0#
65	43.0	17.6	26.4#

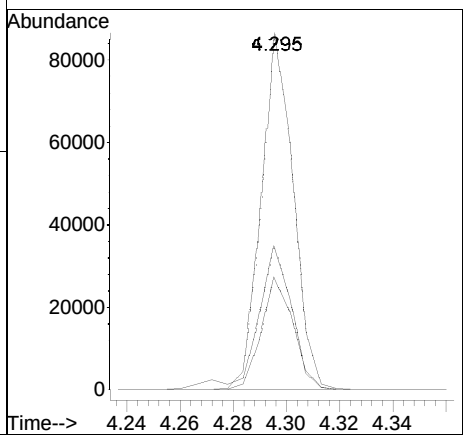


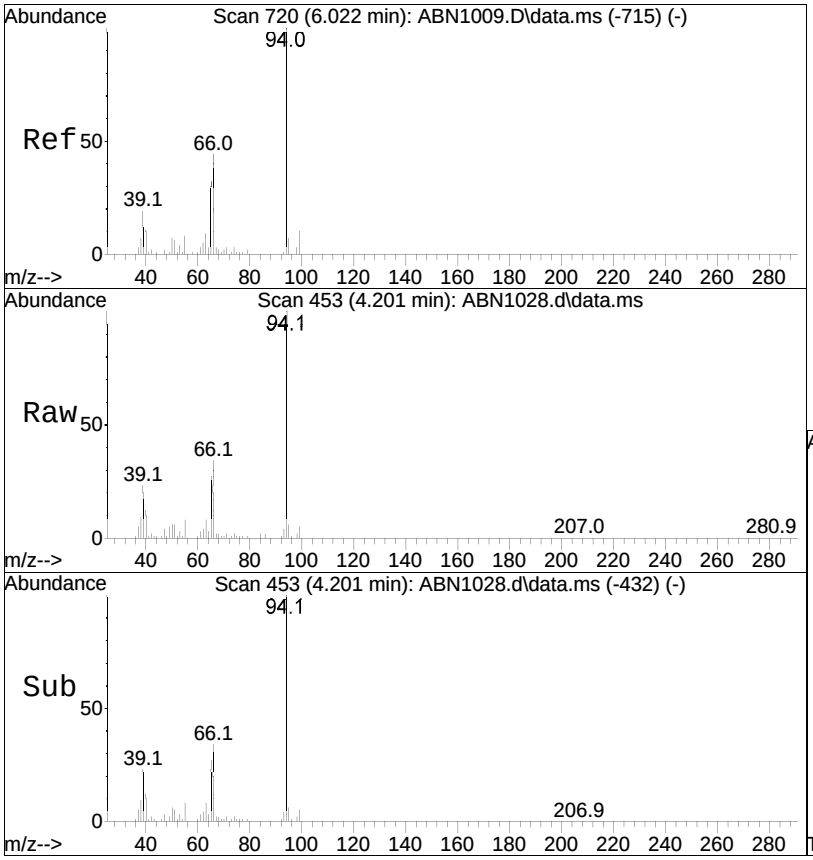


#6
2-Chlorophenol
Concen: 5.27 ug/ml
RT: 4.295 min Scan# 469
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:128 Resp: 71693

Ion	Ratio	Lower	Upper
128	100		
64	42.5	45.1	67.7#
130	31.7	26.2	39.4

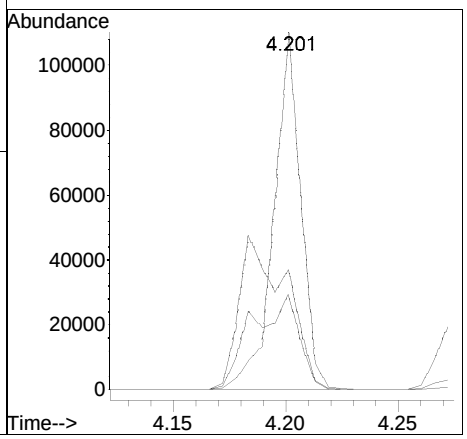


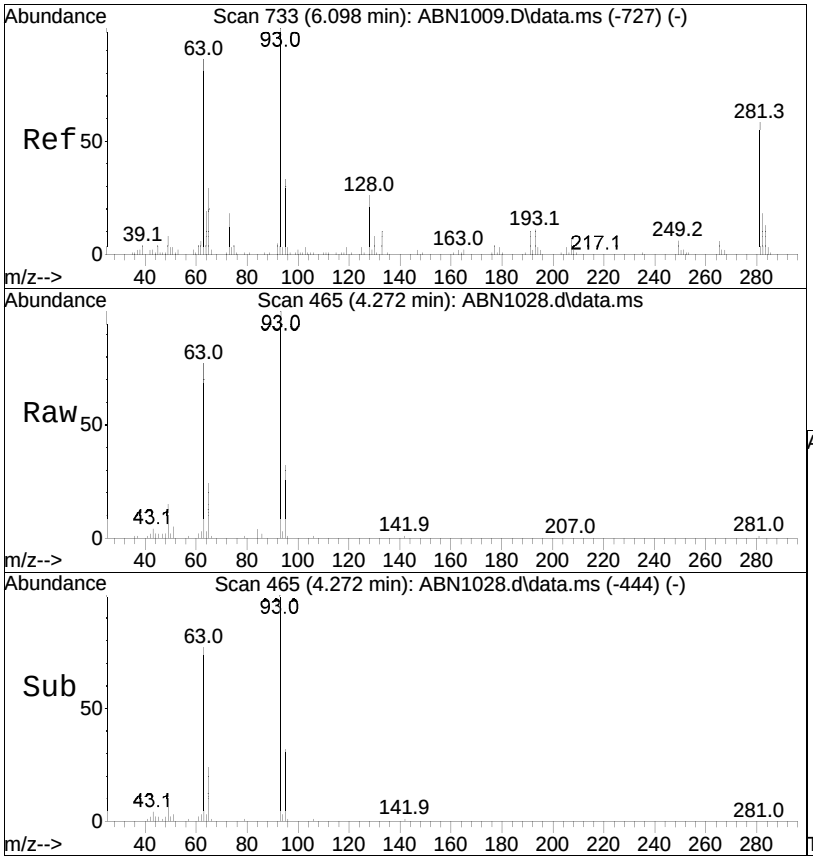


#8
Phenol
Concen: 5.33 ug/ml
RT: 4.201 min Scan# 453
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion: 94 Resp: 91016

Ion	Ratio	Lower	Upper
94	100		
65	46.7	26.0	39.0#
66	75.1	33.8	50.8#

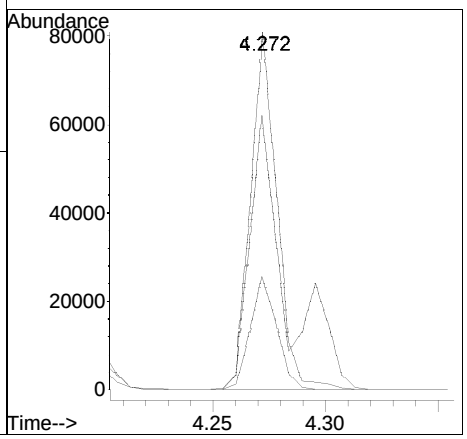


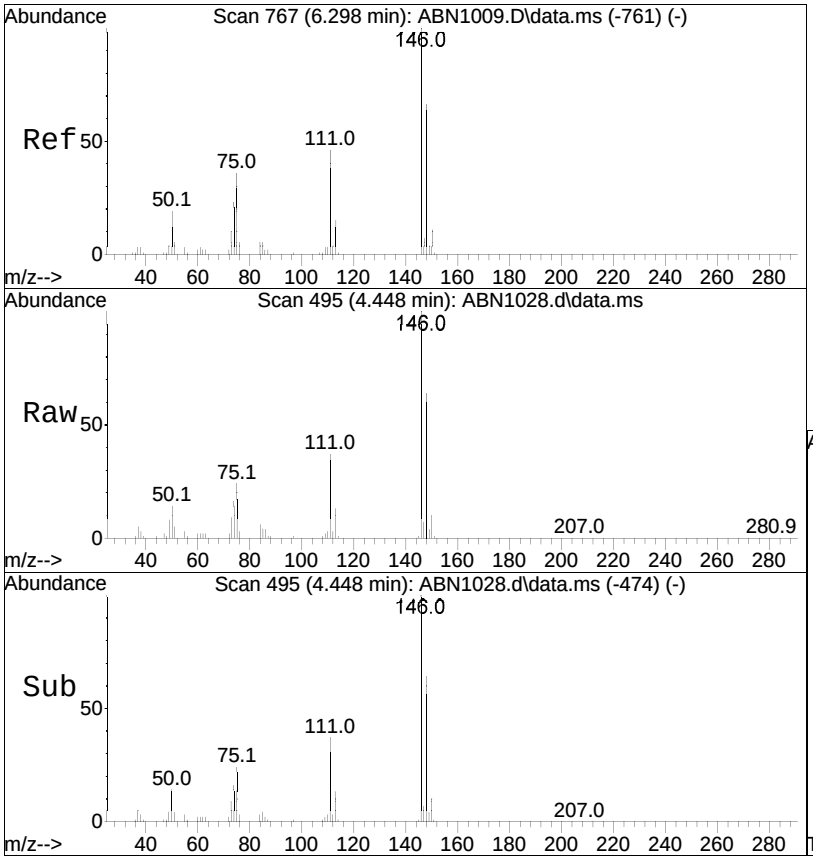


#9
Bis(2-chloroethyl)ether
Concen: 5.21 ug/ml
RT: 4.272 min Scan# 465
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion: 93 Resp: 65271

Ion	Ratio	Lower	Upper
93	100		
63	82.5	74.6	111.8
95	31.8	25.9	38.9

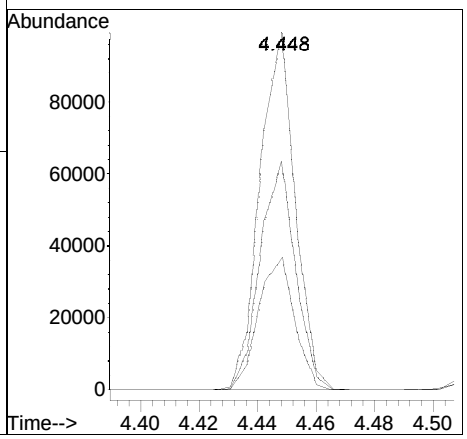


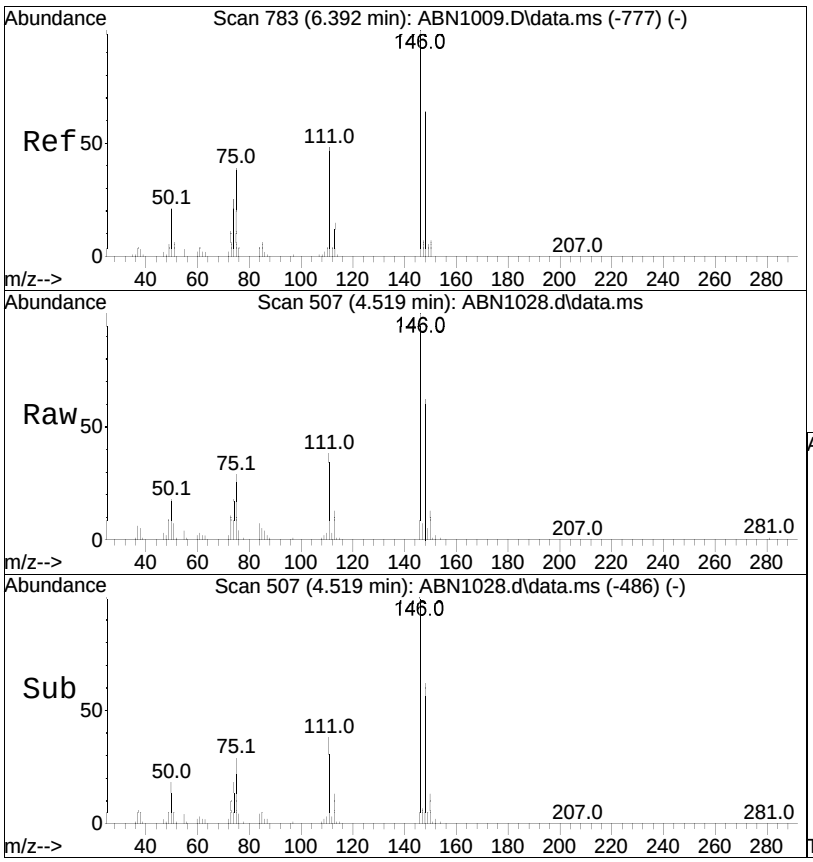


#10
1,3-Dichlorobenzene
Concen: 5.09 ug/ml
RT: 4.448 min Scan# 495
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:146 Resp: 82509

Ion	Ratio	Lower	Upper
146	100		
111	38.3	34.3	51.5
148	64.2	50.8	76.2

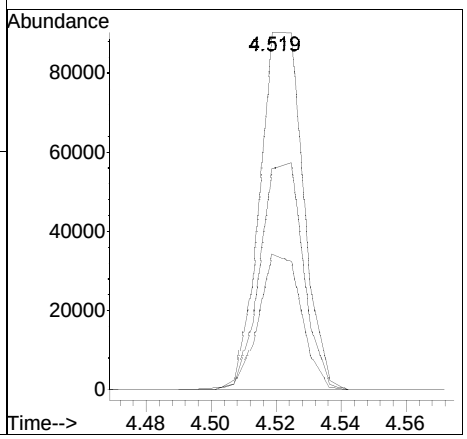


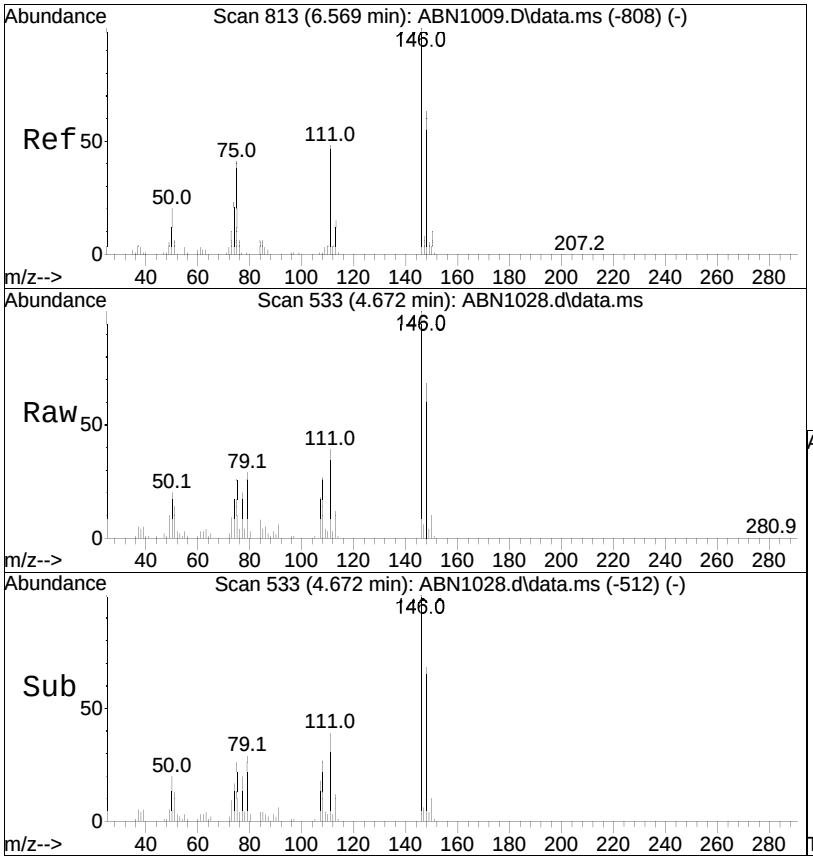


#11
1,4-Dichlorobenzene
Concen: 5.11 ug/ml
RT: 4.519 min Scan# 507
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:146 Resp: 83592

Ion	Ratio	Lower	Upper
146	100		
148	63.0	50.7	76.1
111	37.9	33.4	50.0

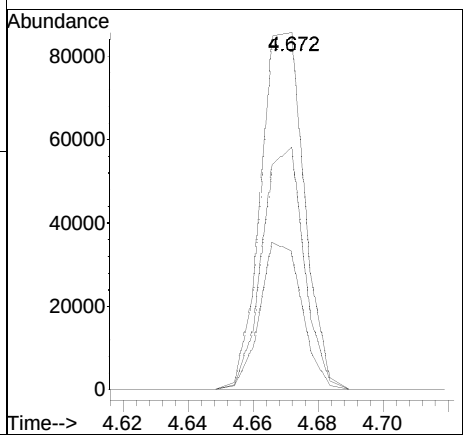


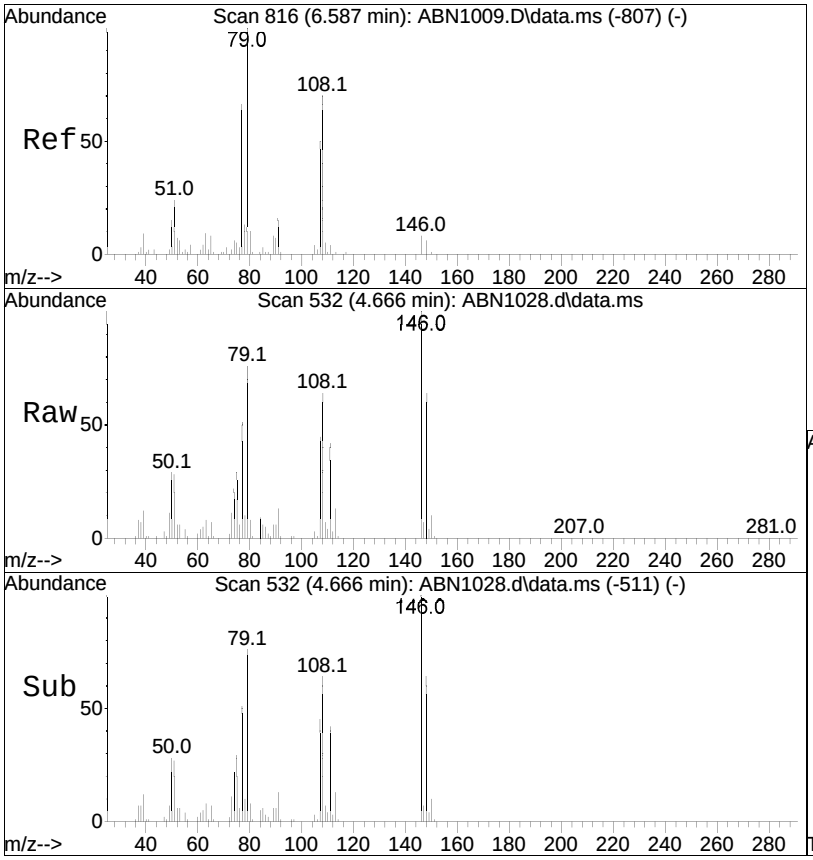


#12
1,2-Dichlorobenzene
Concen: 5.00 ug/ml
RT: 4.672 min Scan# 533
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:146 Resp: 79399

Ion	Ratio	Lower	Upper
146	100		
111	40.0	34.6	52.0
148	65.2	50.2	75.4

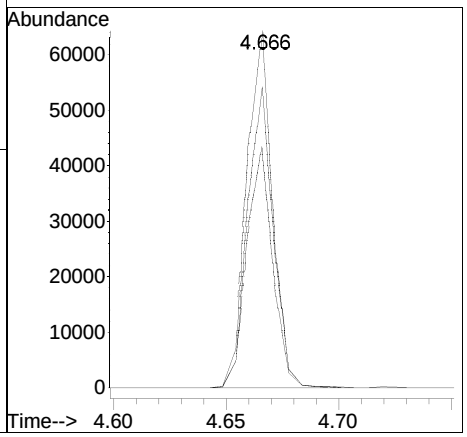


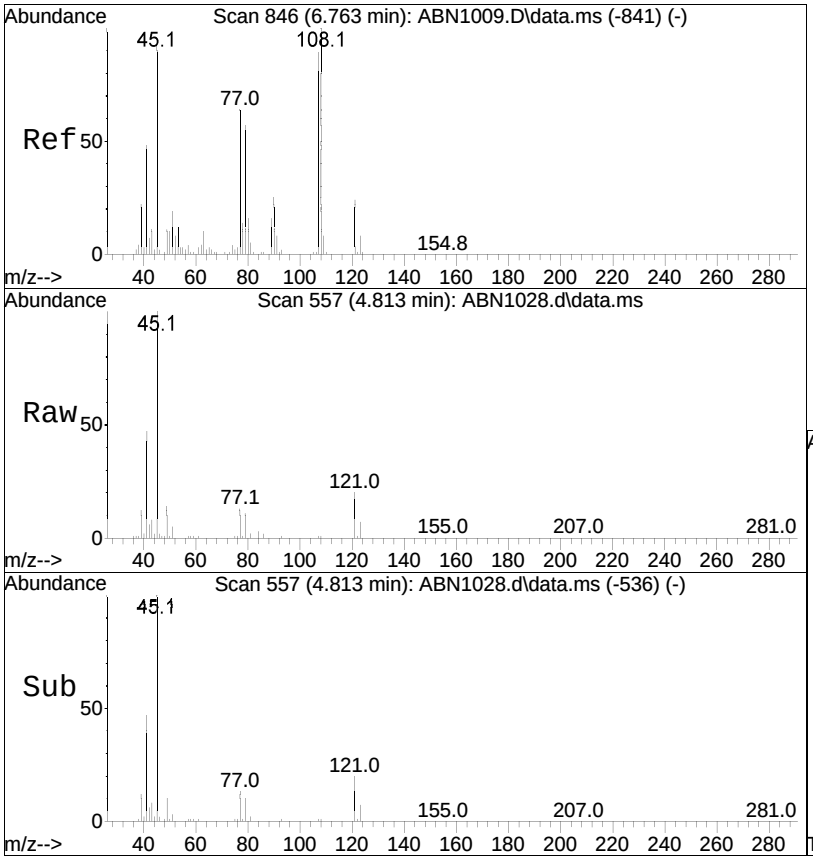


#13
Benzyl alcohol
Concen: 5.04 ug/ml
RT: 4.666 min Scan# 532
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion: 79 Resp: 50893

Ion	Ratio	Lower	Upper
79	100		
77	68.4	54.9	82.3
108	84.0	63.1	94.7

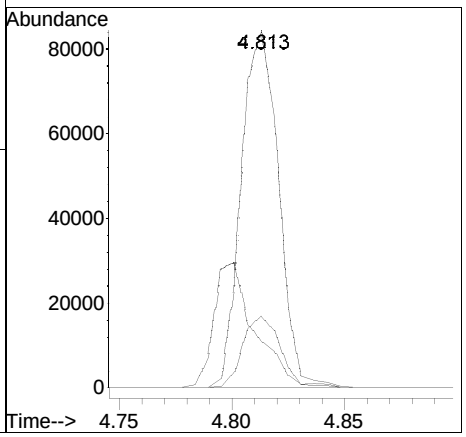


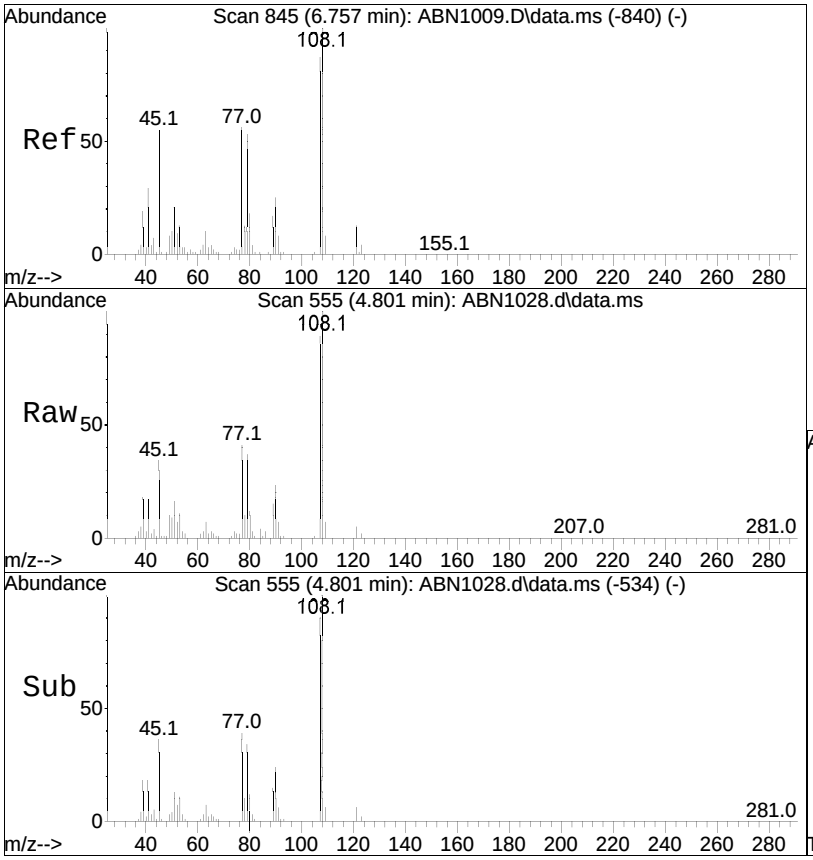


#14
Bis(2-chloroisopropyl)ether
Concen: 5.08 ug/ml
RT: 4.813 min Scan# 557
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion: 45 Resp: 96120

Ion	Ratio	Lower	Upper
45	100		
121	20.2	9.8	14.6#
77	38.8	6.1	9.1#

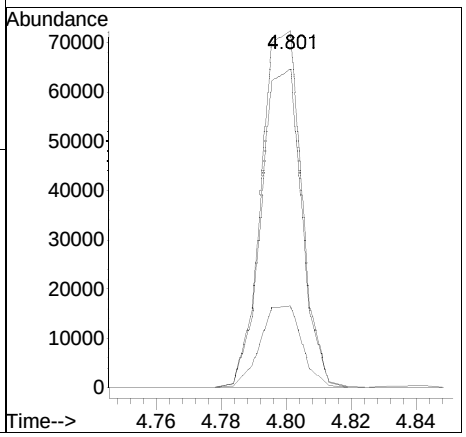


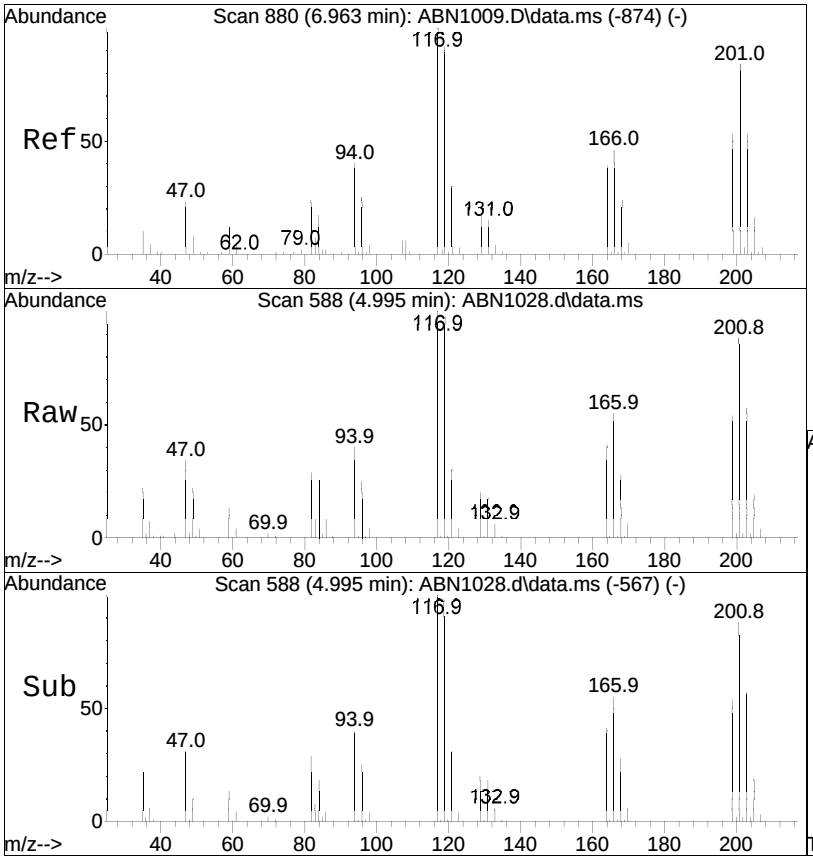


#15
2-Methylphenol
Concen: 5.31 ug/ml
RT: 4.801 min Scan# 555
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:108 Resp: 62244

Ion	Ratio	Lower	Upper
108	100		
107	89.6	70.7	106.1
90	23.8	18.7	28.1

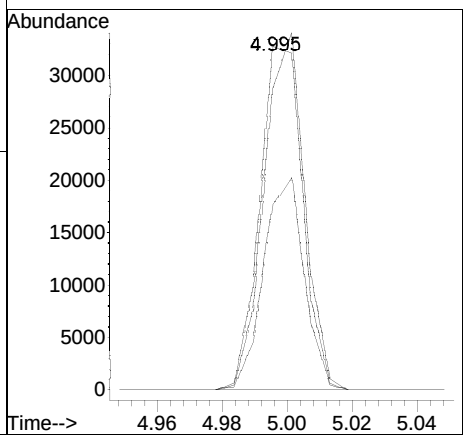


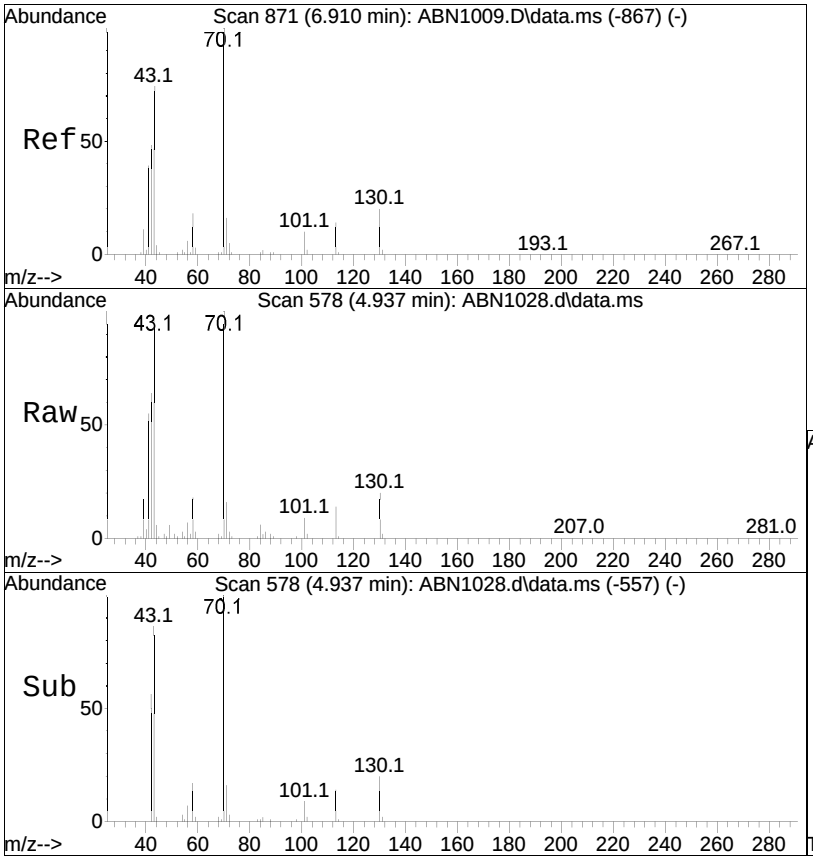


#16
Hexachloroethane
Concen: 4.78 ug/ml
RT: 4.995 min Scan# 588
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:117 Resp: 29900

Ion	Ratio	Lower	Upper
117	100		
201	98.0	58.6	87.8#
199	58.7	36.9	55.3#

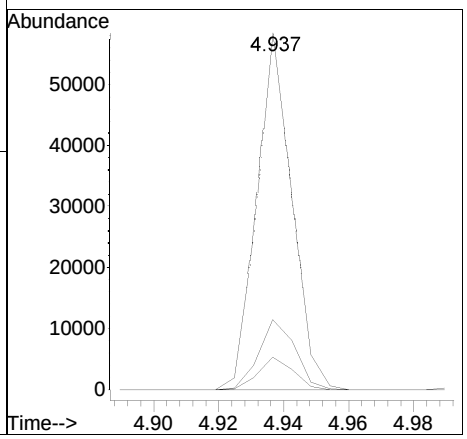


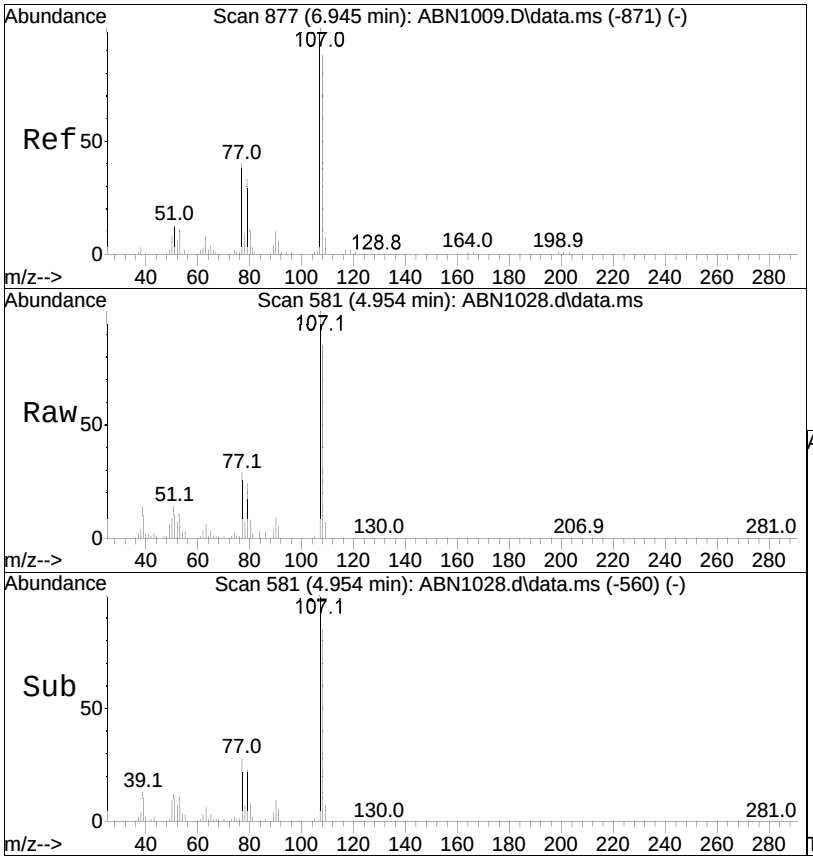


#17
n-Nitrosodi-n-propylamine
Concen: 4.92 ug/ml
RT: 4.937 min Scan# 578
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion: 70 Resp: 43549

Ion	Ratio	Lower	Upper
70	100		
130	20.4	18.2	27.4
101	9.2	7.8	11.8

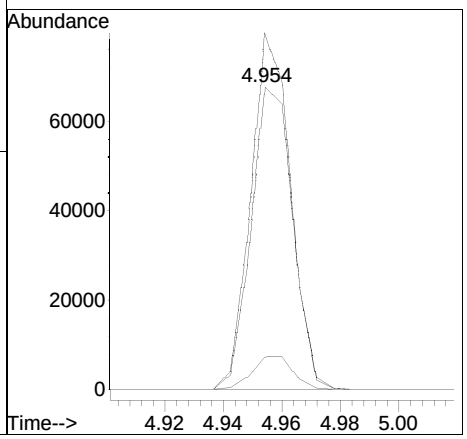


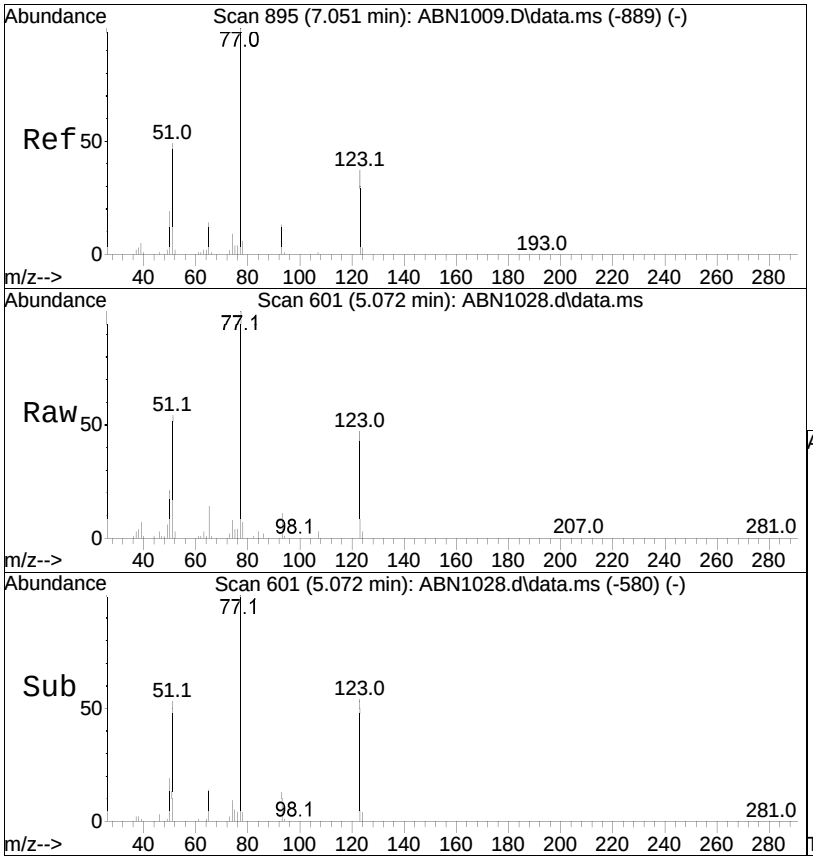


#18
3-Methylphenol/4-Methylphenol
Concen: 5.37 ug/ml
RT: 4.954 min Scan# 581
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:108 Resp: 66812

Ion	Ratio	Lower	Upper
108	100		
107	112.1	88.6	132.8
90	10.8	8.8	13.2

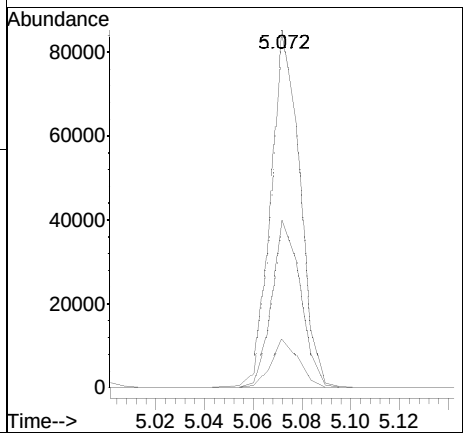


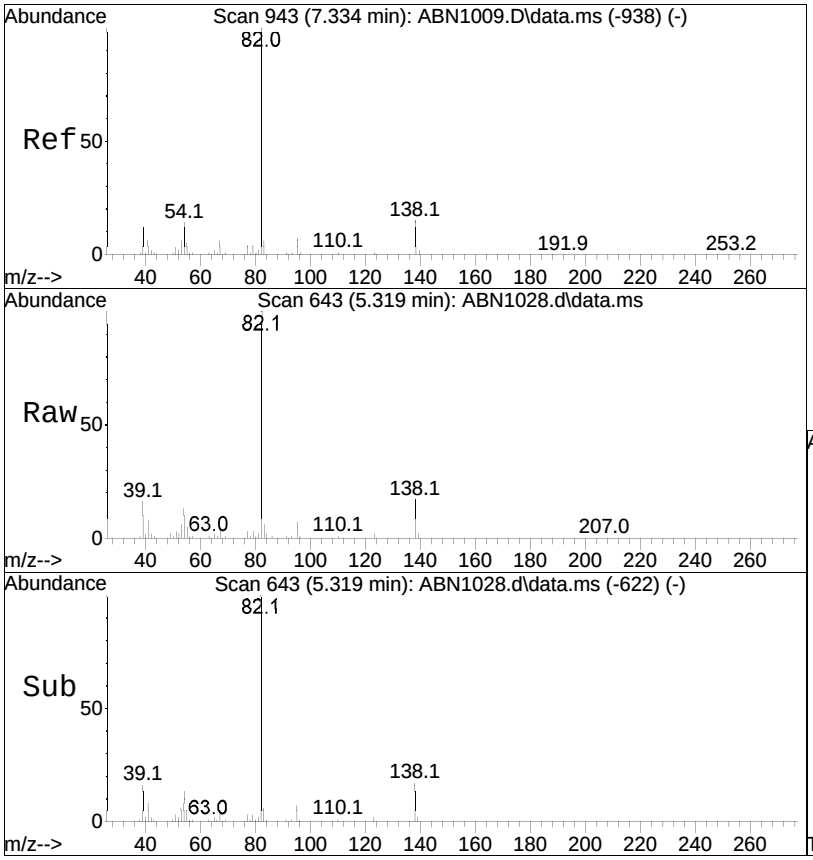


#20
Nitrobenzene
Concen: 5.14 ug/ml
RT: 5.072 min Scan# 601
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion: 77 Resp: 69885

Ion	Ratio	Lower	Upper
77	100		
123	46.5	36.3	54.5
65	12.9	11.6	17.4

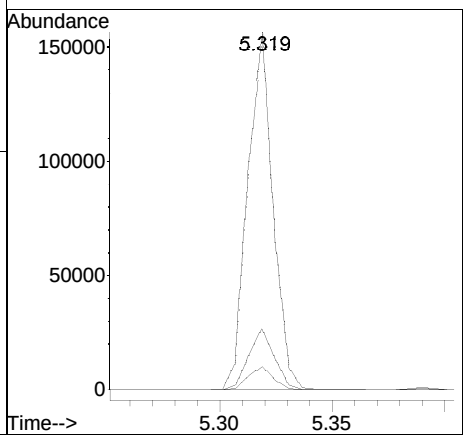


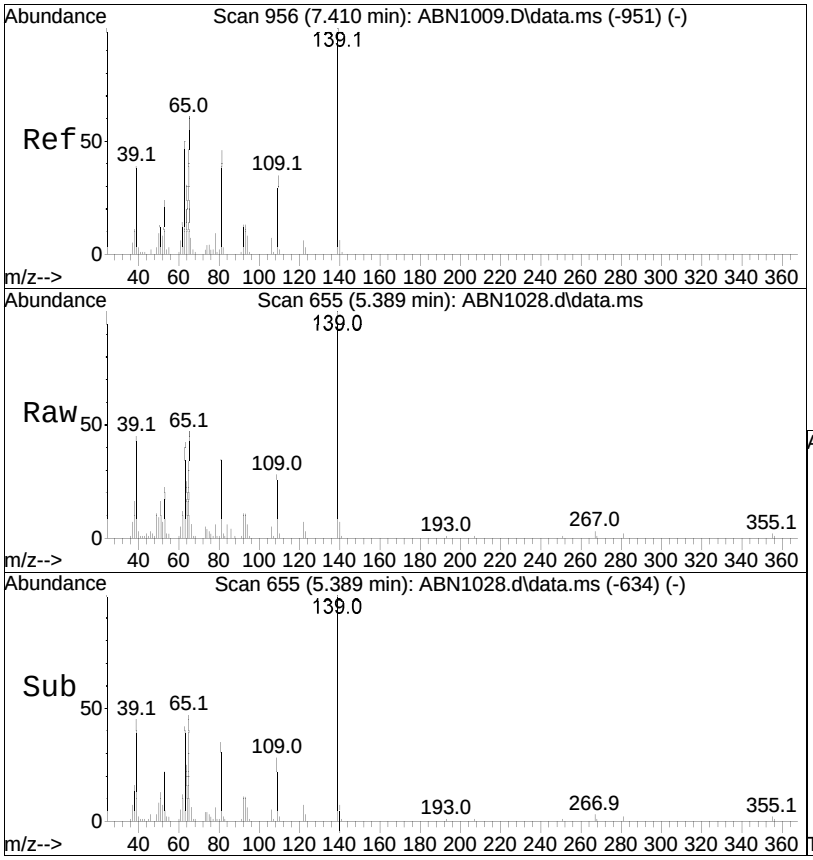


#21
Isophorone
Concen: 5.00 ug/ml
RT: 5.319 min Scan# 643
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion: 82 Resp: 120535

Ion	Ratio	Lower	Upper
82	100		
138	17.5	14.7	22.1
95	6.4	5.2	7.8

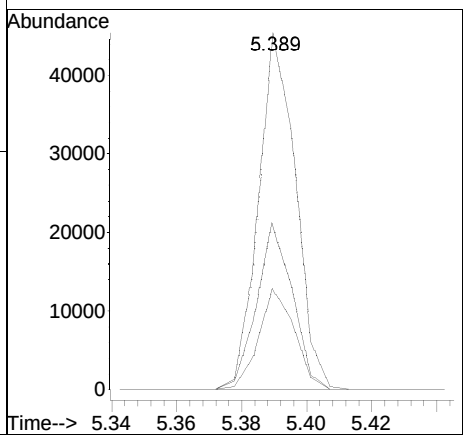


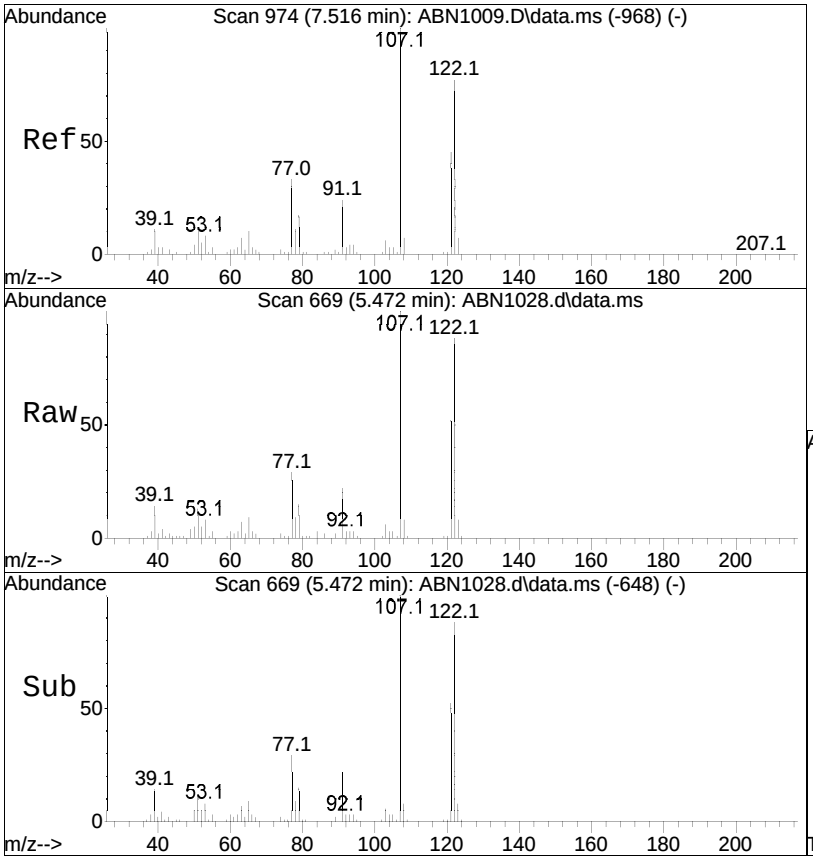


#22
2-Nitrophenol
Concen: 5.07 ug/ml
RT: 5.389 min Scan# 655
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:139 Resp: 35649

Ion	Ratio	Lower	Upper
139	100		
109	27.5	19.4	29.0
65	45.3	46.1	69.1#

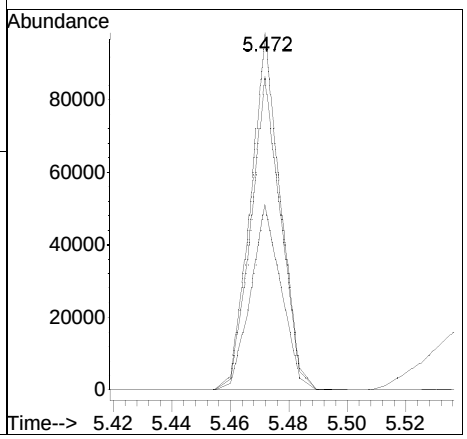


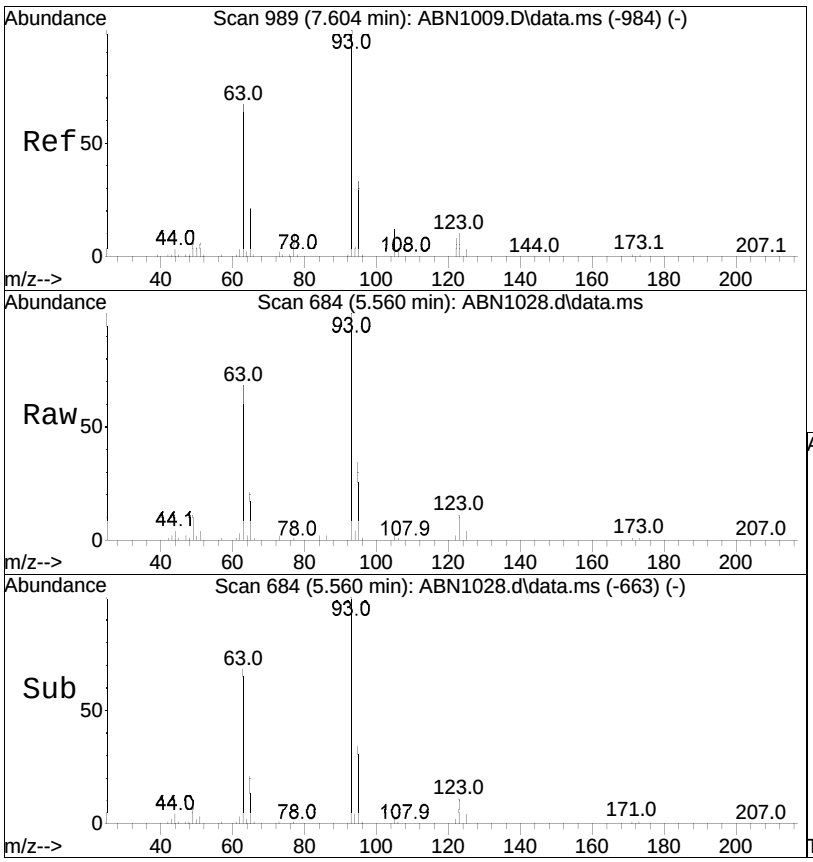


#23
2,4-Dimethylphenol
Concen: 5.19 ug/ml
RT: 5.472 min Scan# 669
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:107 Resp: 69328

Ion	Ratio	Lower	Upper
107	100		
121	53.2	40.0	60.0
122	88.3	70.2	105.4

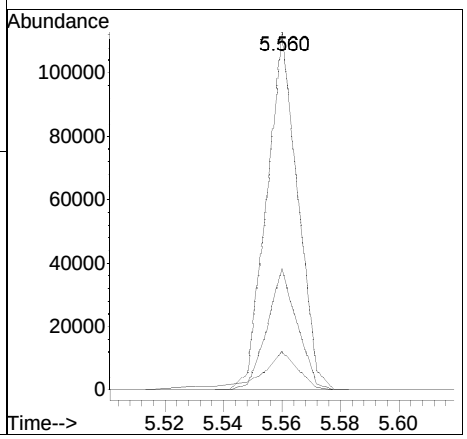


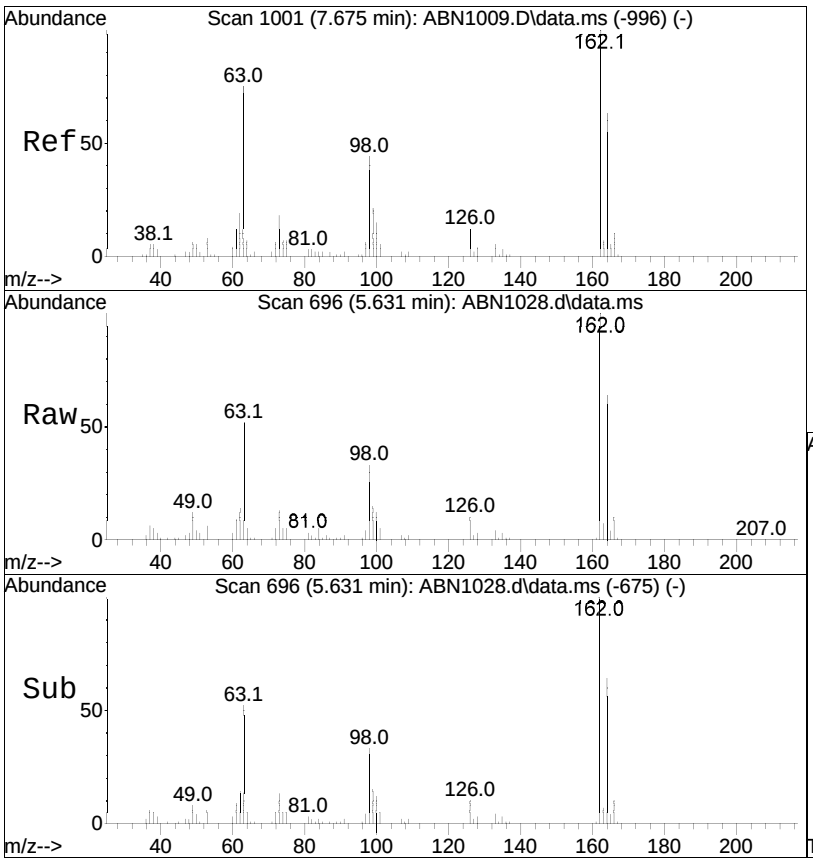


#24
Bis(2-chloroethoxy)methane
Concen: 4.96 ug/ml
RT: 5.560 min Scan# 684
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion: 93 Resp: 82310

Ion	Ratio	Lower	Upper
93	100		
95	33.0	25.8	38.8
123	13.6	10.1	15.1

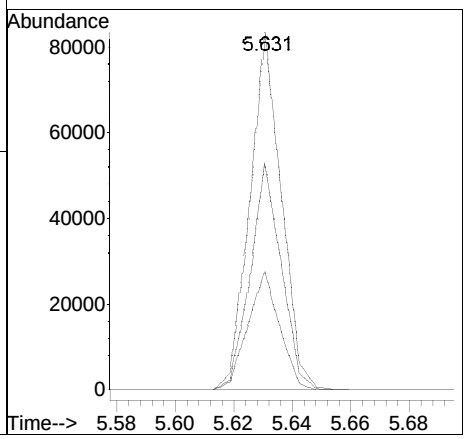


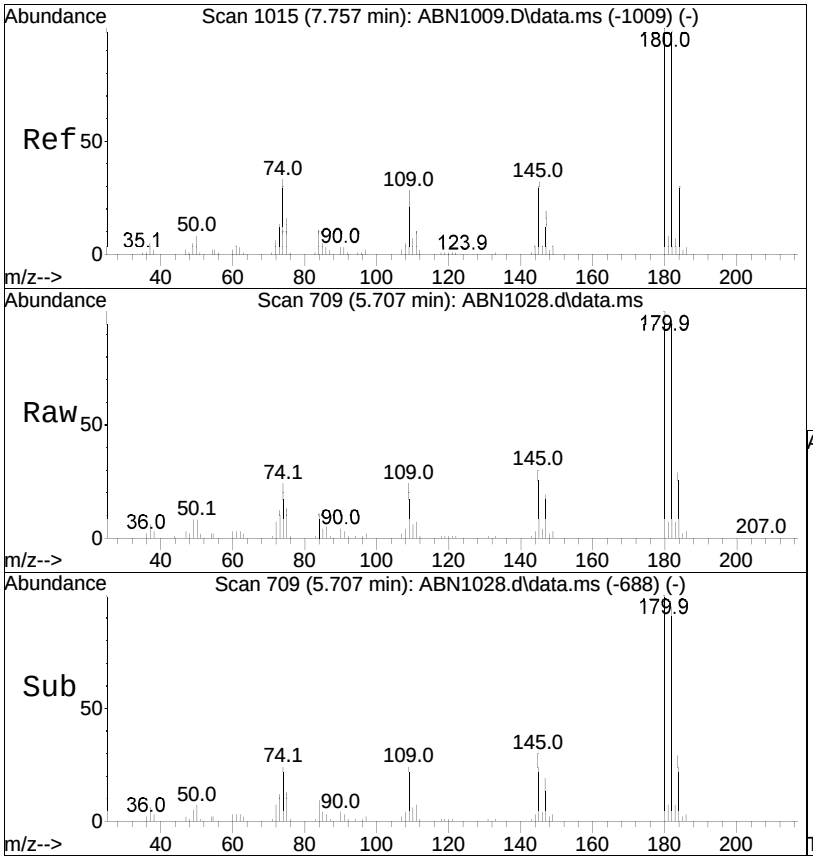


#25
2,4-Dichlorophenol
Concen: 5.17 ug/ml
RT: 5.631 min Scan# 696
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:162 Resp: 61746

Ion	Ratio	Lower	Upper
162	100		
164	62.5	51.0	76.4
98	33.5	32.2	48.2

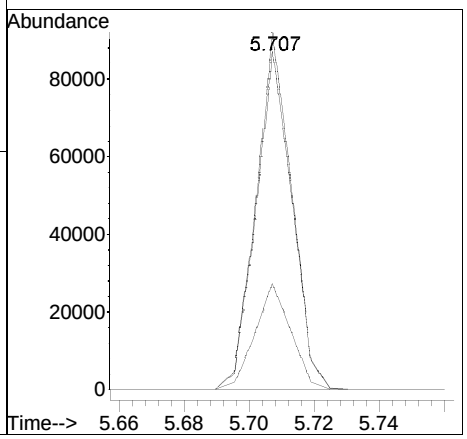


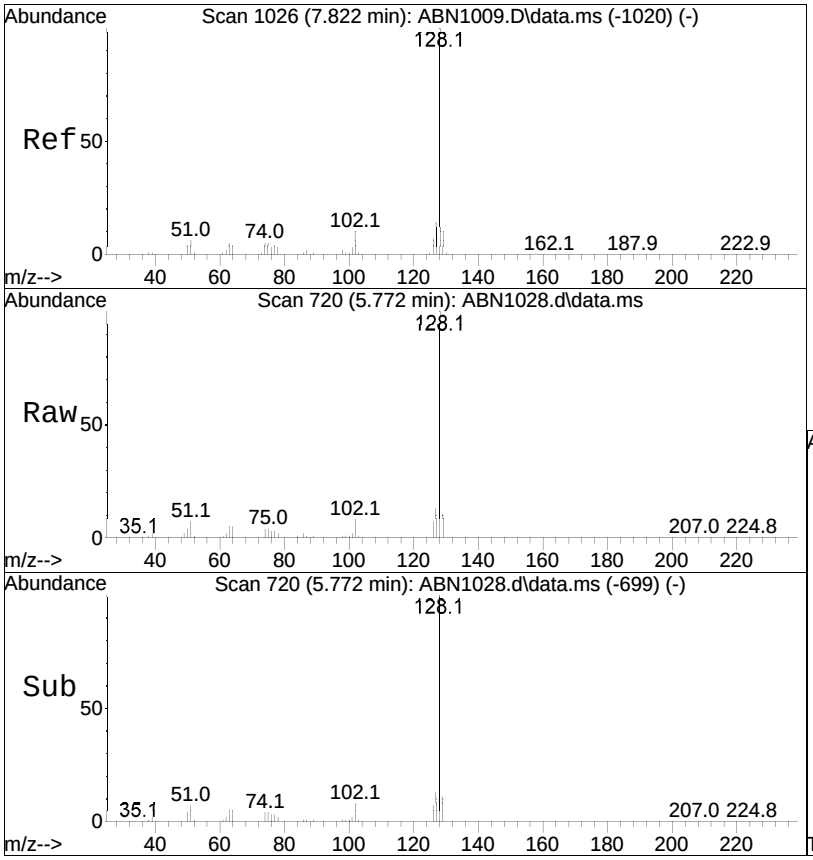


#26
1,2,4-Trichlorobenzene
Concen: 5.02 ug/ml
RT: 5.707 min Scan# 709
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:180 Resp: 69116

Ion	Ratio	Lower	Upper
180	100		
182	95.8	76.0	114.0
145	30.0	25.7	38.5

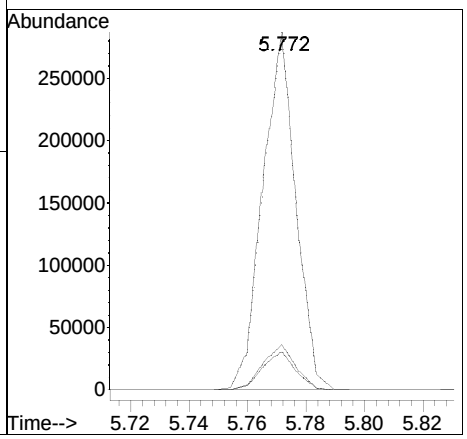


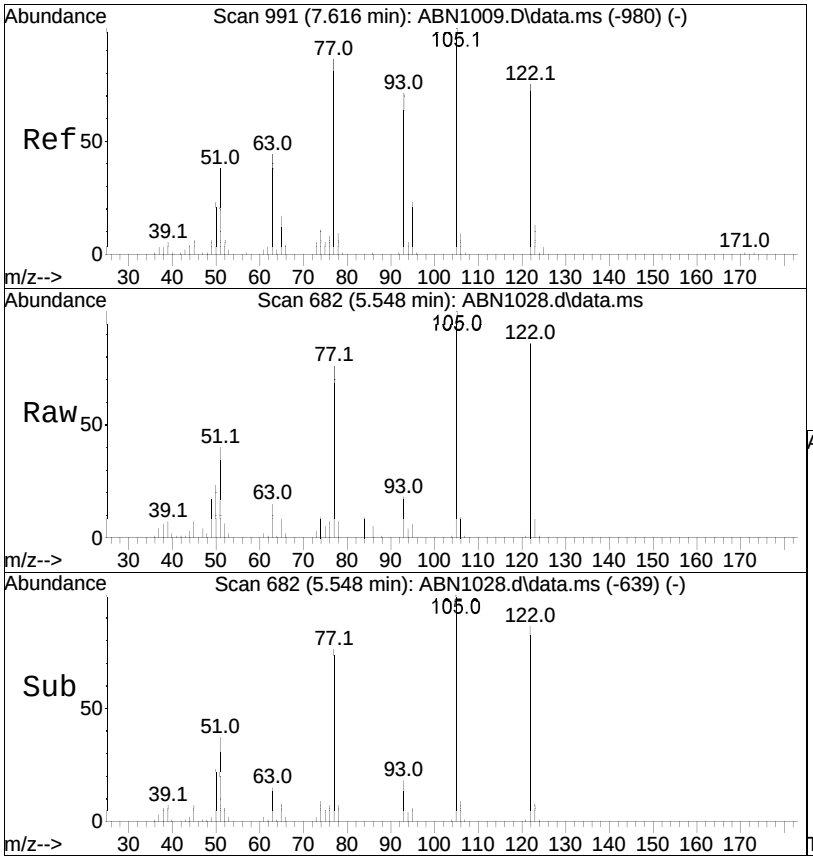


#35
Naphthalene
Concen: 5.04 ug/ml
RT: 5.772 min Scan# 720
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:128 Resp: 222226

Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.7	13.1
127	12.7	10.3	15.5

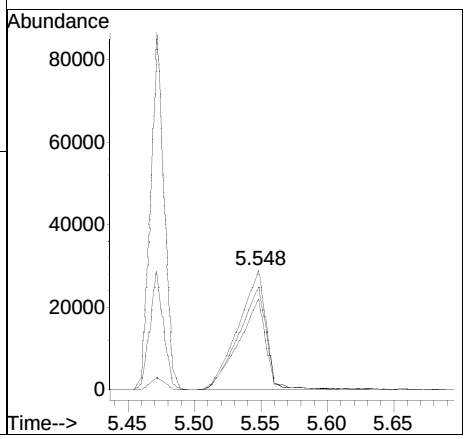


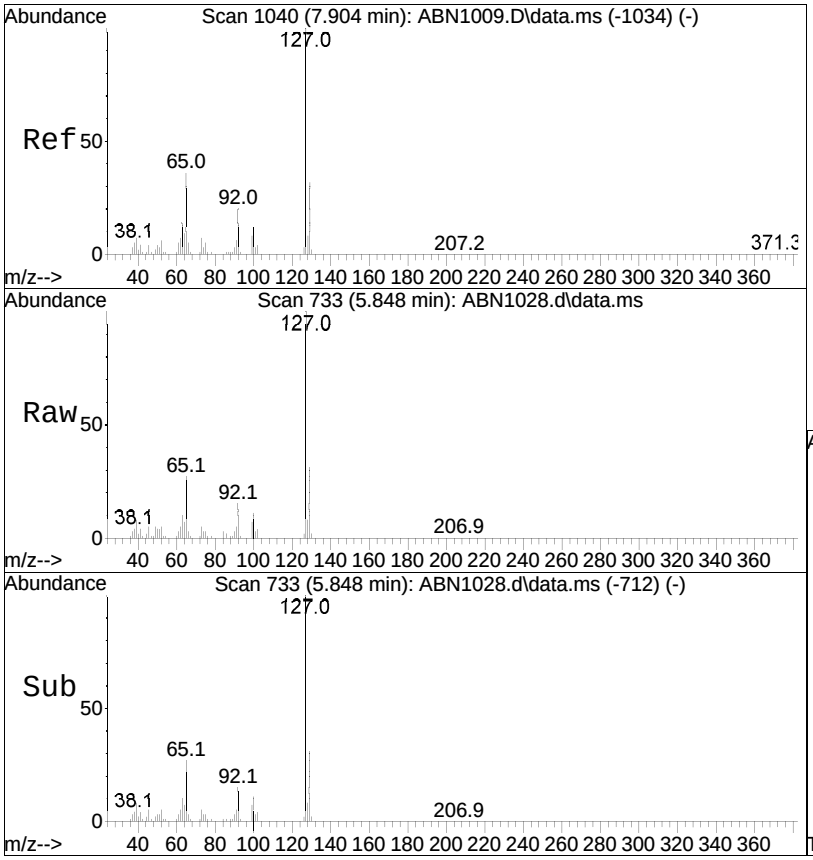


#36
Benzoic Acid
Concen: 5.22 ug/ml
RT: 5.548 min Scan# 682
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:105 Resp: 43340

Ion	Ratio	Lower	Upper
105	100		
122	85.0	59.9	89.9
77	74.3	60.1	90.1

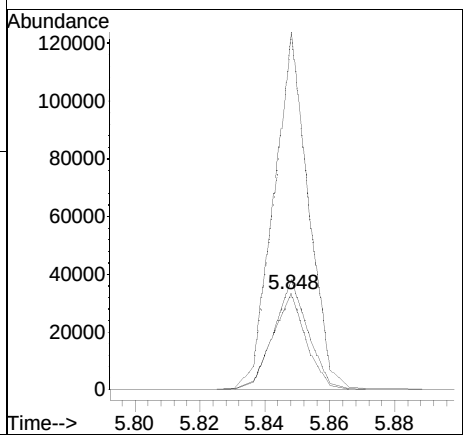


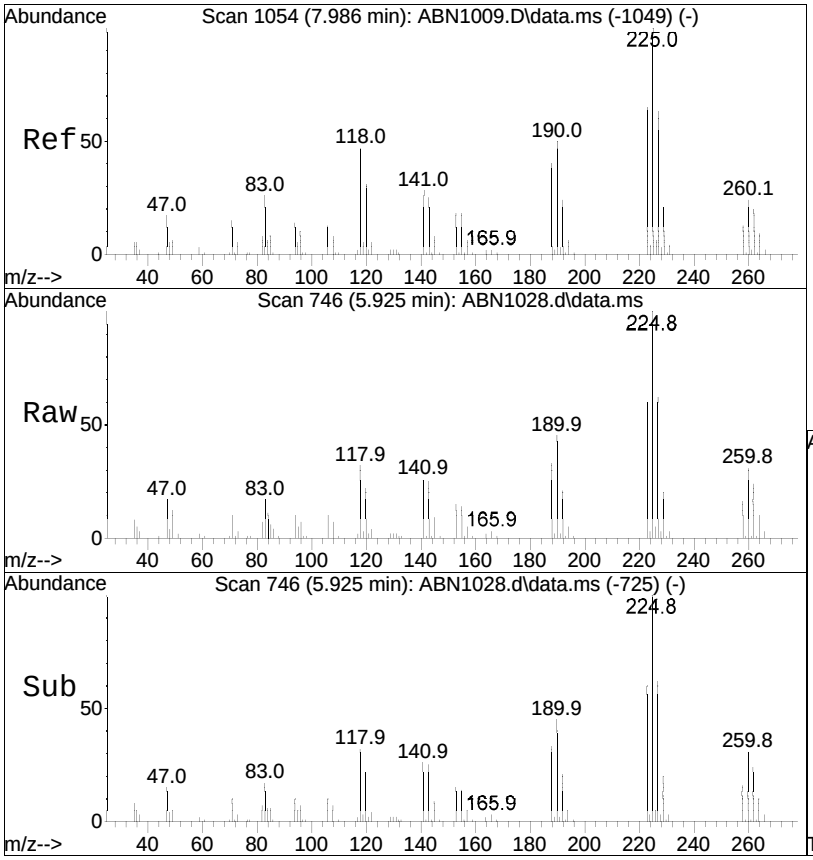


#37
4-Chloroaniline
Concen: 4.80 ug/ml
RT: 5.848 min Scan# 733
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion: 65 Resp: 24040

Ion	Ratio	Lower	Upper
65	100		
127	378.4	237.6	356.4#
129	115.2	76.3	114.5#

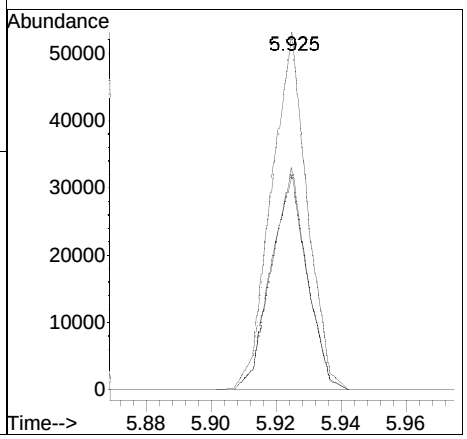


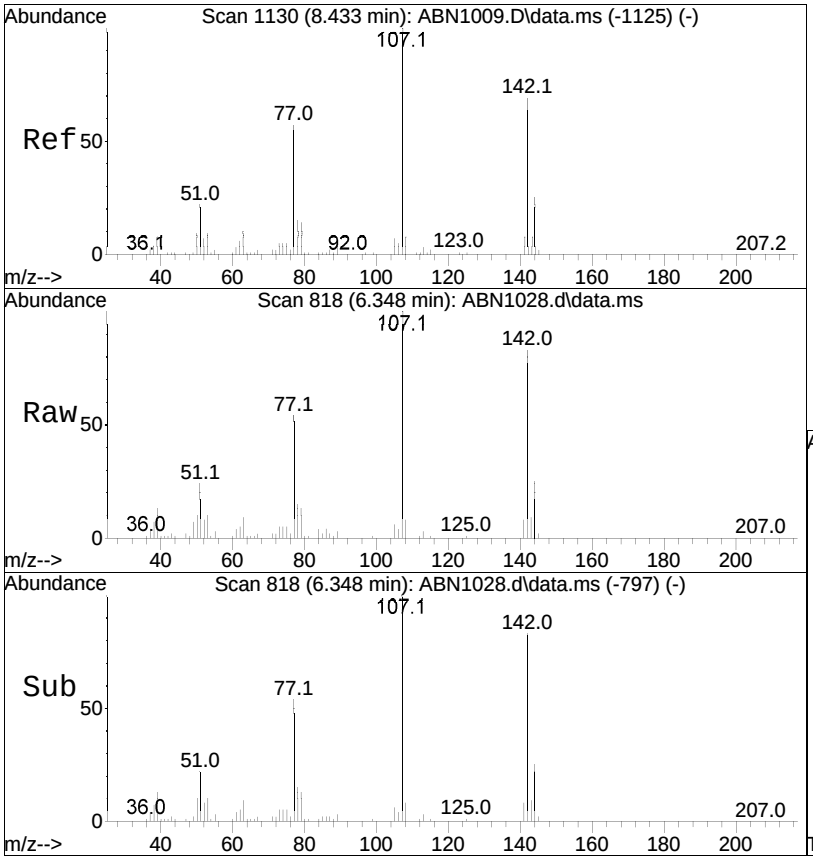


#38
Hexachlorobutadiene
Concen: 4.94 ug/ml
RT: 5.925 min Scan# 746
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:225 Resp: 40244

Ion	Ratio	Lower	Upper
225	100		
223	61.0	50.3	75.5
227	61.5	52.2	78.2

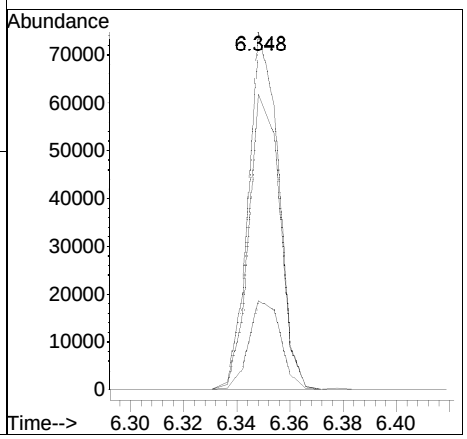


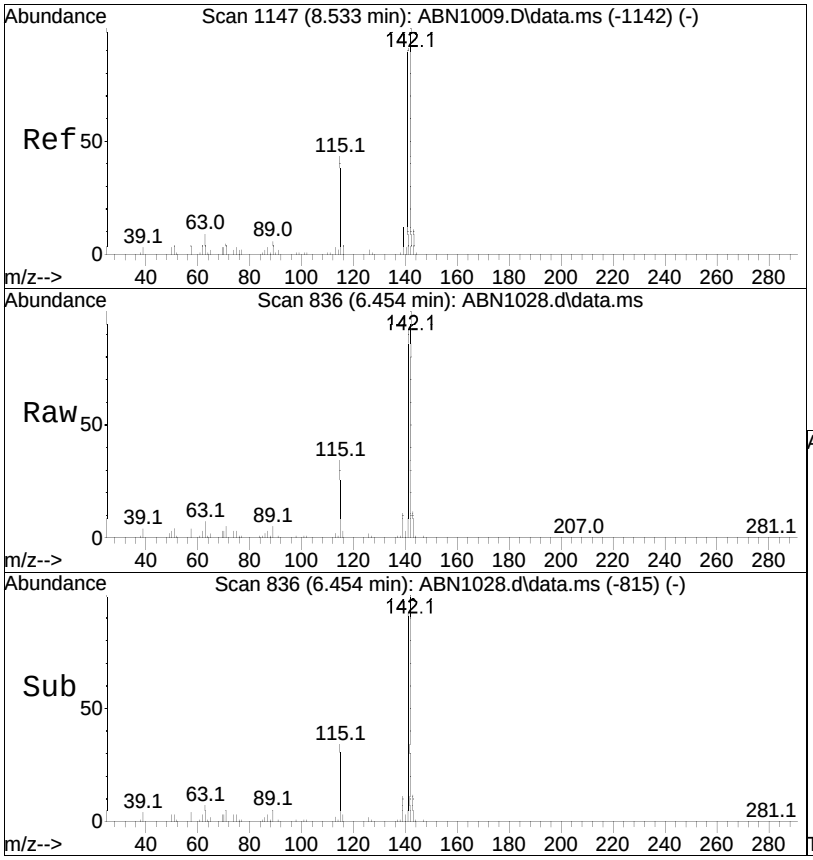


#39
p-Chloro-m-cresol
Concen: 5.07 ug/ml
RT: 6.348 min Scan# 818
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:107 Resp: 58388

Ion	Ratio	Lower	Upper
107	100		
144	26.3	20.9	31.3
142	85.2	66.1	99.1

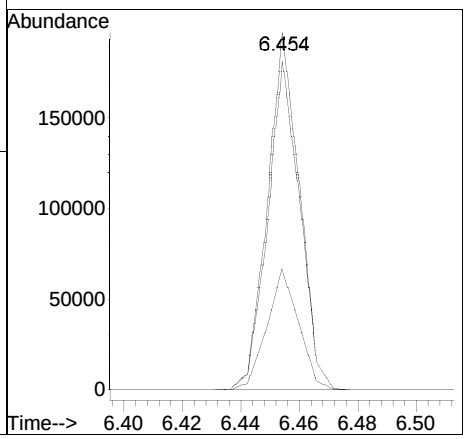


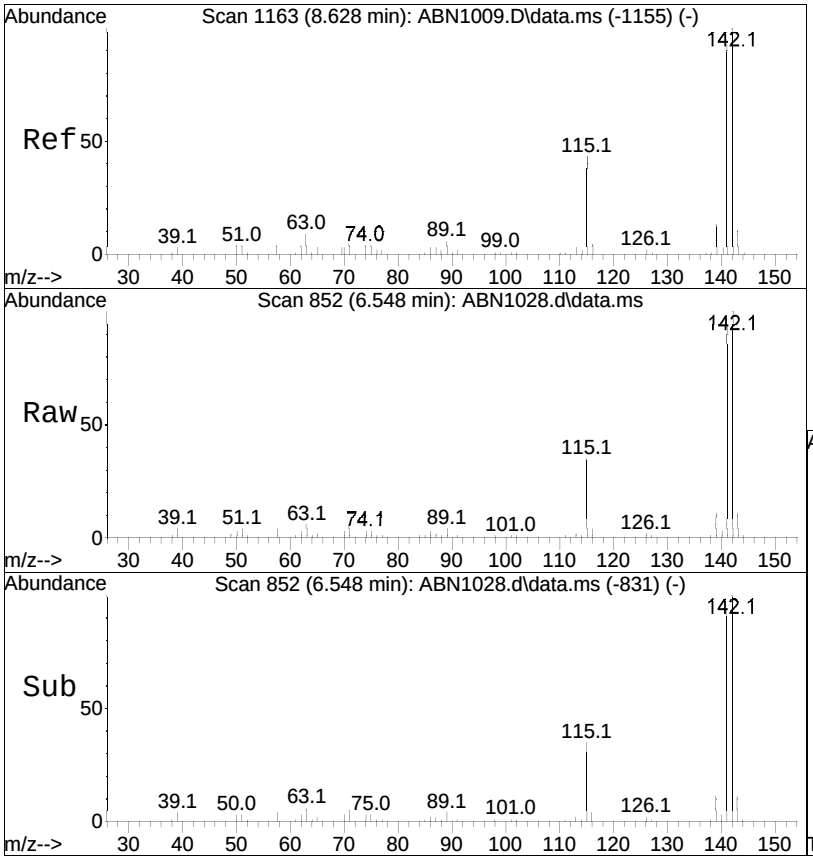


#40
2-Methylnaphthalene
Concen: 4.97 ug/ml
RT: 6.454 min Scan# 836
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:142 Resp: 149291

Ion	Ratio	Lower	Upper
142	100		
141	92.2	69.6	104.4
115	33.6	26.6	40.0

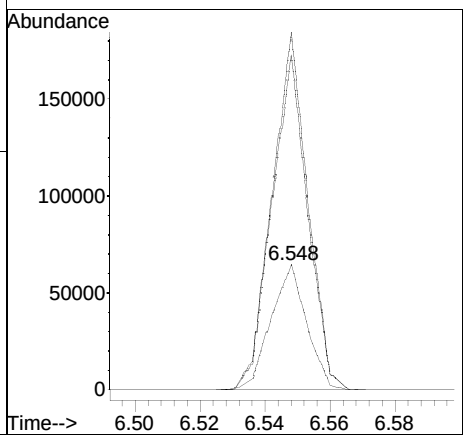


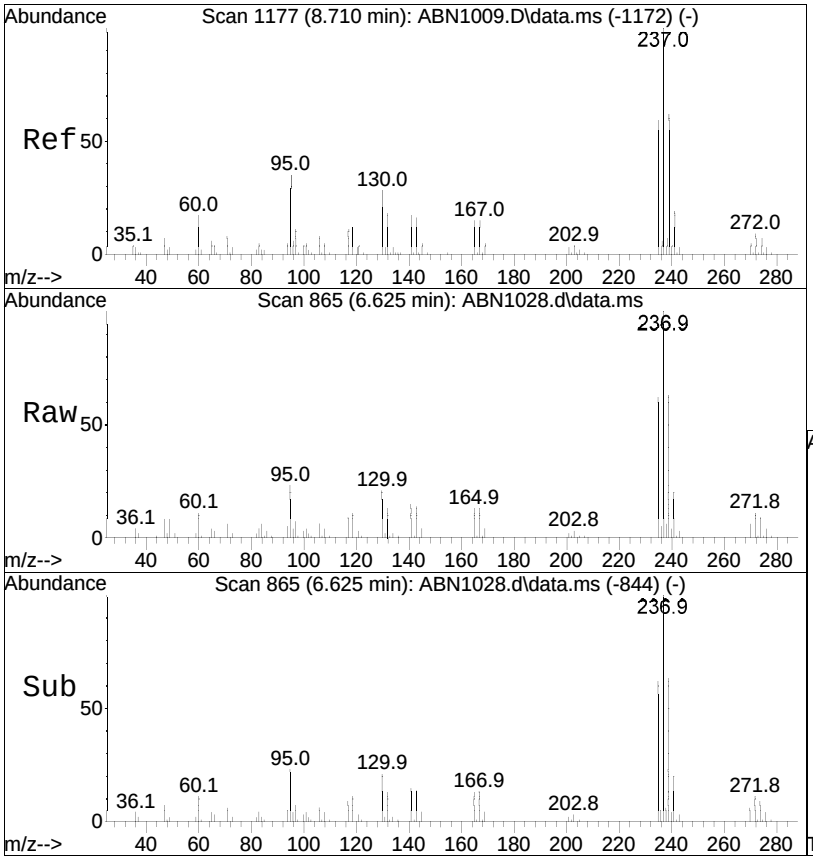


#41
1-Methylnaphthalene
Concen: 4.85 ug/ml
RT: 6.548 min Scan# 852
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:115 Resp: 48960

Ion	Ratio	Lower	Upper
115	100		
141	266.3	207.8	311.6
142	283.3	226.8	340.2

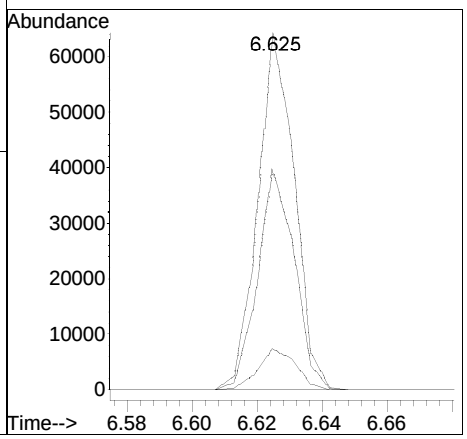


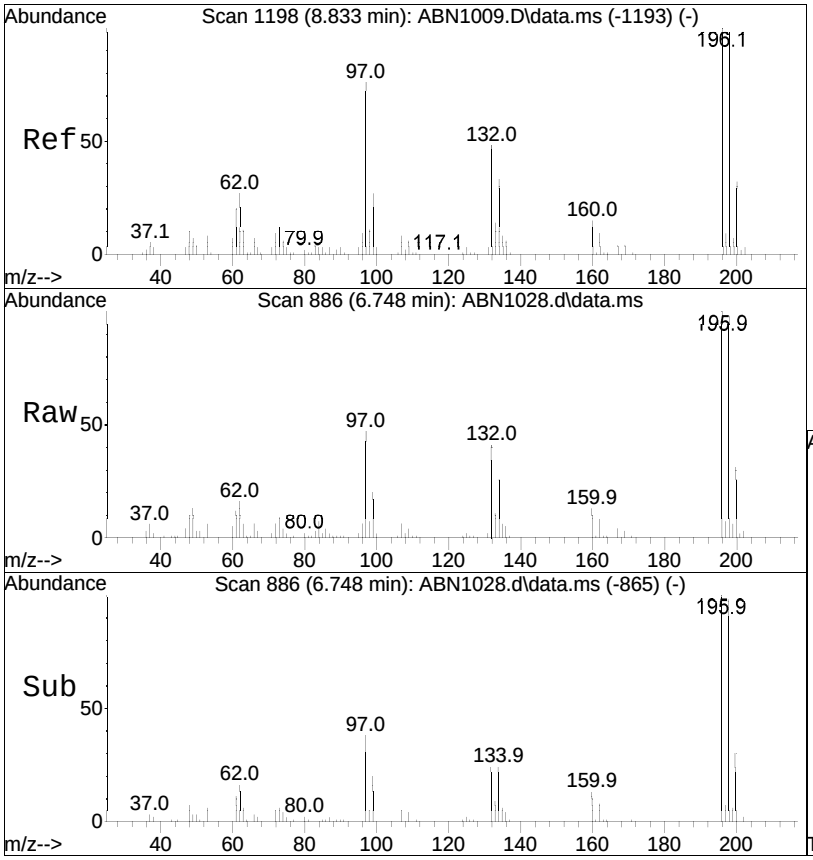


#42
Hexachlorocyclopentadiene
Concen: 4.62 ug/ml
RT: 6.625 min Scan# 865
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:237 Resp: 49886

Ion	Ratio	Lower	Upper
237	100		
235	62.1	49.7	74.5
272	12.0	9.8	14.6

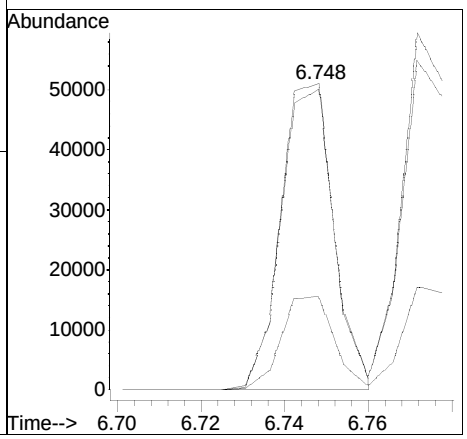


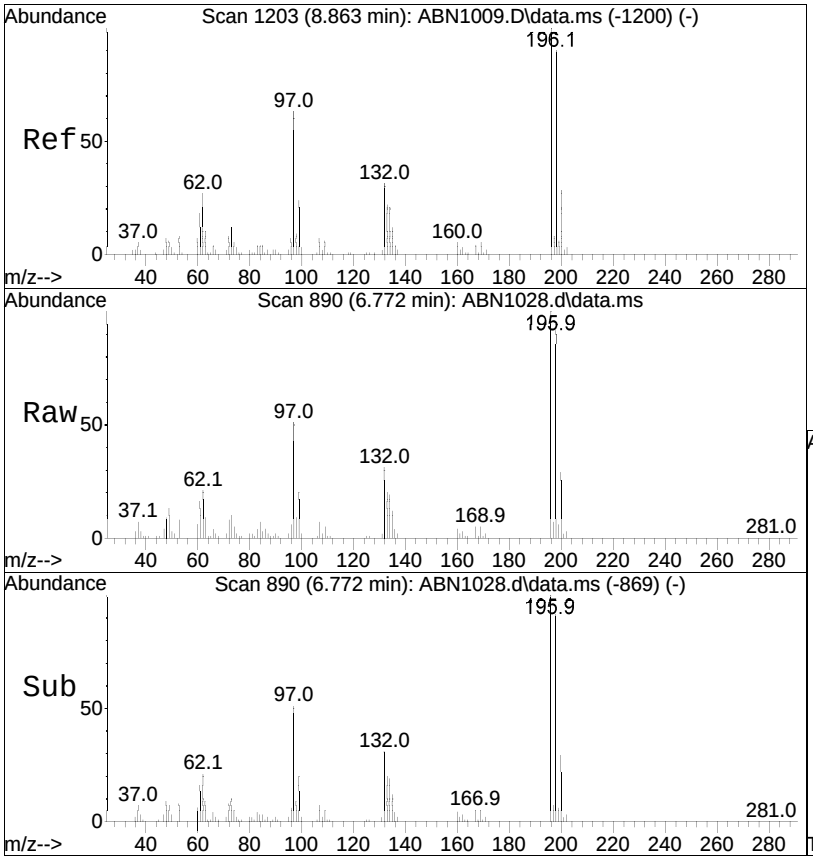


#43
2,4,6-Trichlorophenol
Concen: 4.89 ug/ml
RT: 6.748 min Scan# 886
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:196 Resp: 44935

Ion	Ratio	Lower	Upper
196	100		
198	98.0	77.5	116.3
200	30.7	23.8	35.6

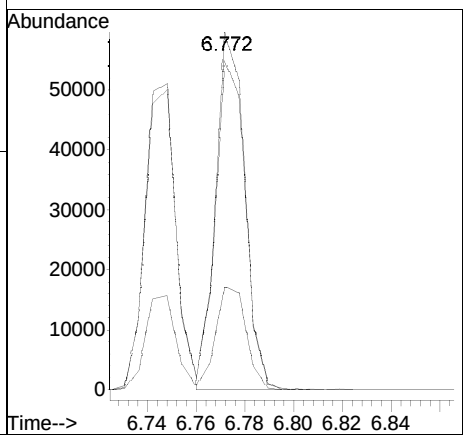


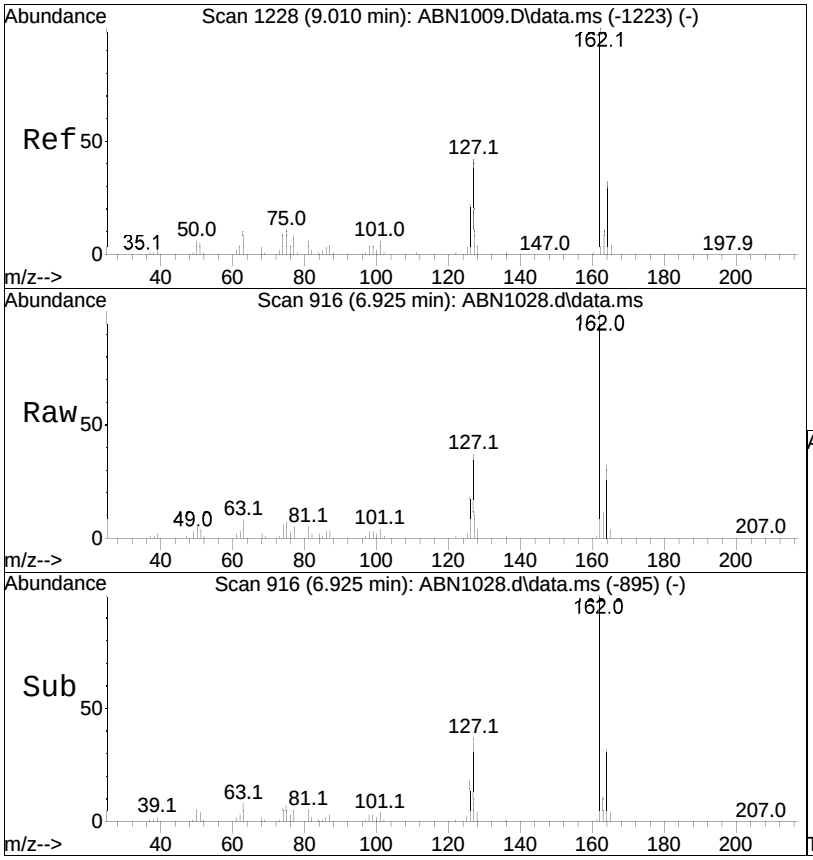


#44
2,4,5-Trichlorophenol
Concen: 4.94 ug/ml
RT: 6.772 min Scan# 890
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:196 Resp: 49265

Ion	Ratio	Lower	Upper
196	100		
200	30.1	25.4	38.0
198	94.6	78.0	117.0

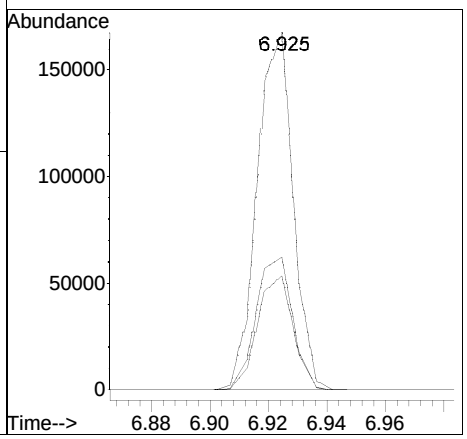


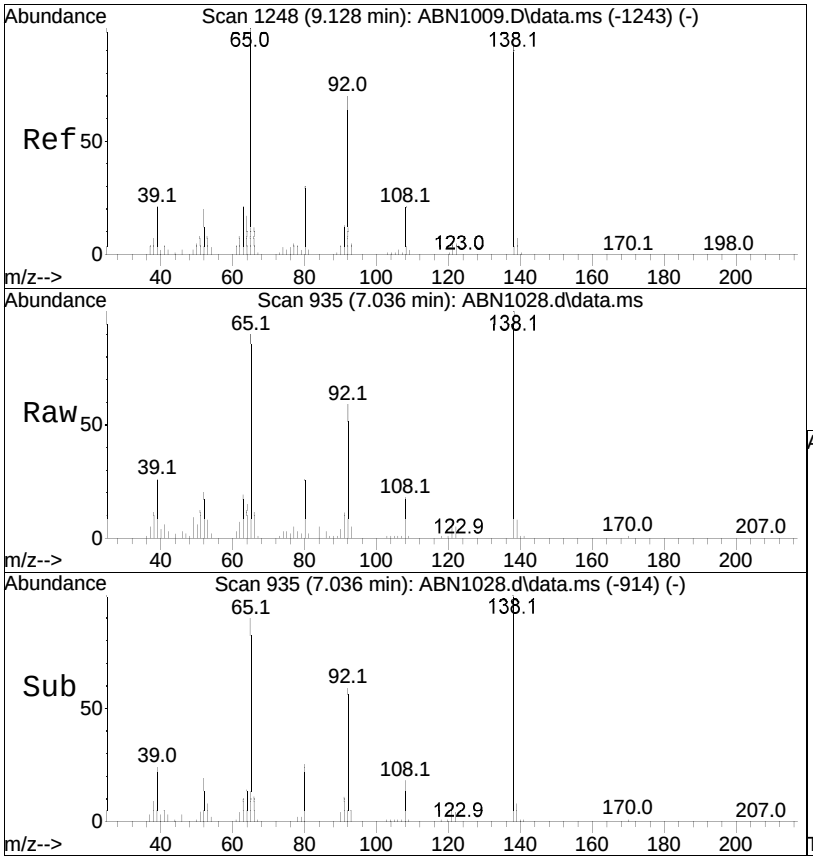


#46
2-Chloronaphthalene
Concen: 4.93 ug/ml
RT: 6.925 min Scan# 916
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:162 Resp: 141600

Ion	Ratio	Lower	Upper
162	100		
127	38.1	32.2	48.4
164	31.9	25.7	38.5

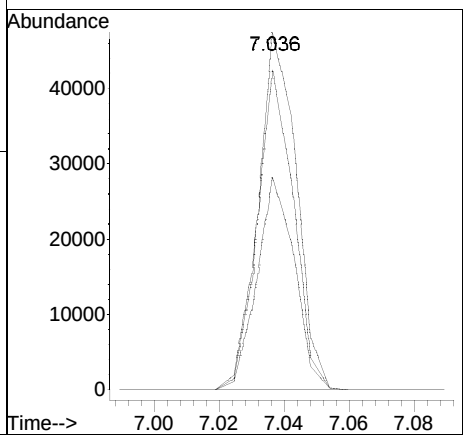


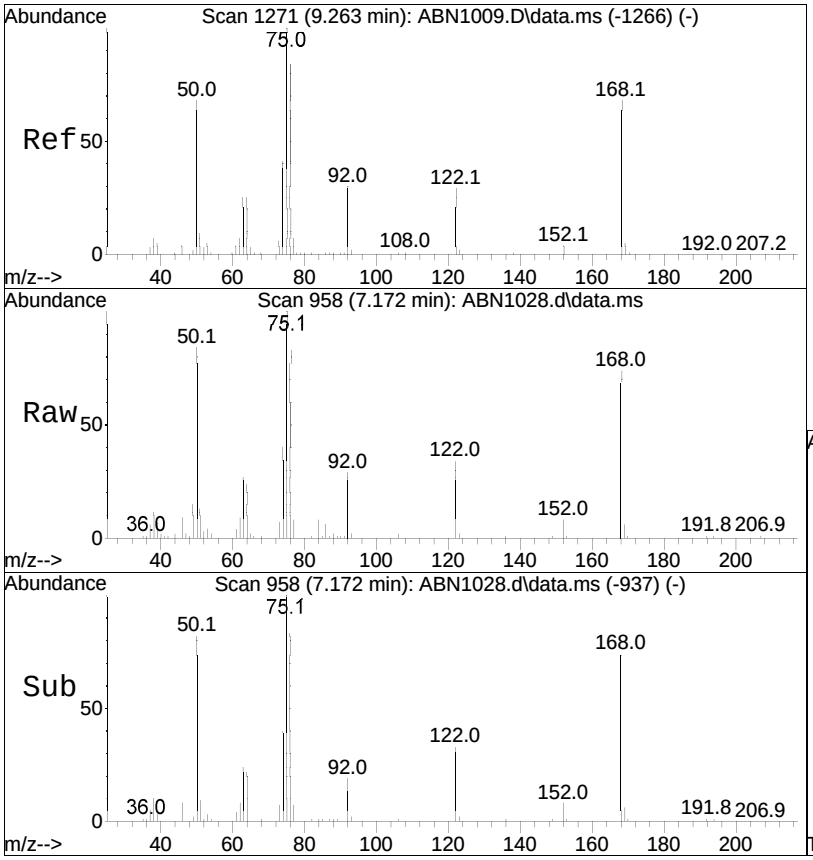


#47
2-Nitroaniline
Concen: 4.65 ug/ml
RT: 7.036 min Scan# 935
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:138 Resp: 37946

Ion	Ratio	Lower	Upper
138	100		
92	59.0	53.5	80.3
65	86.6	86.3	129.5

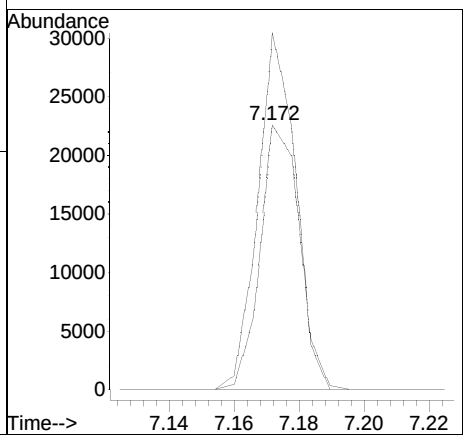


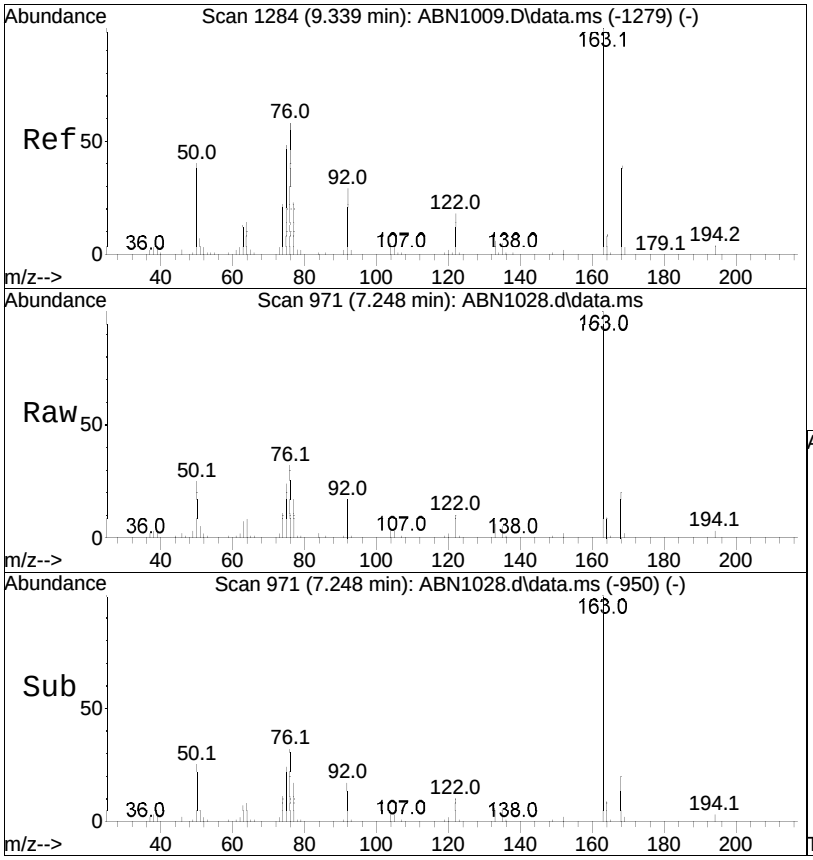


#48
1,4-Dinitrobenzene
Concen: 4.30 ug/ml
RT: 7.172 min Scan# 958
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:168 Resp: 18972

Ion	Ratio	Lower	Upper
168	100		
75	129.2	121.8	182.8

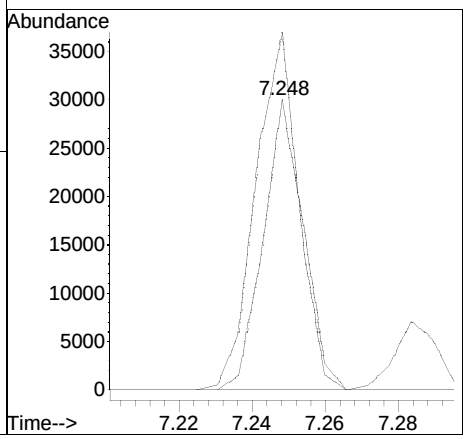


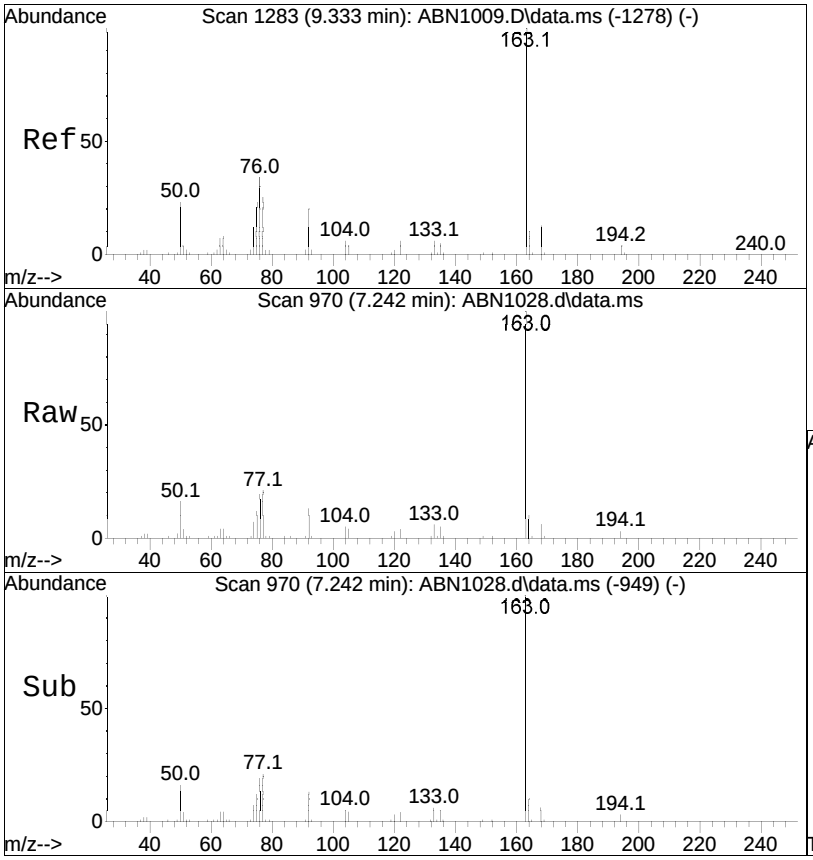


#49
1,3-Dinitrobenzene
Concen: 4.50 ug/ml
RT: 7.248 min Scan# 971
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:168 Resp: 22639

Ion	Ratio	Lower	Upper
168	100		
75	132.5	22.7	34.1#

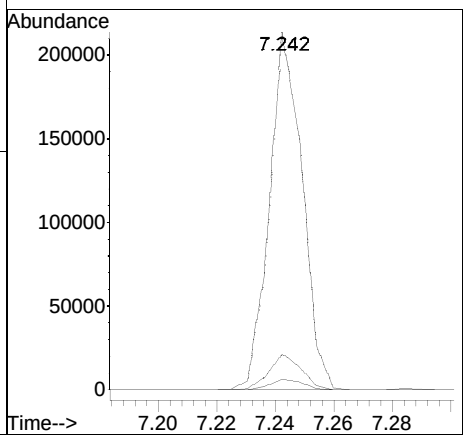


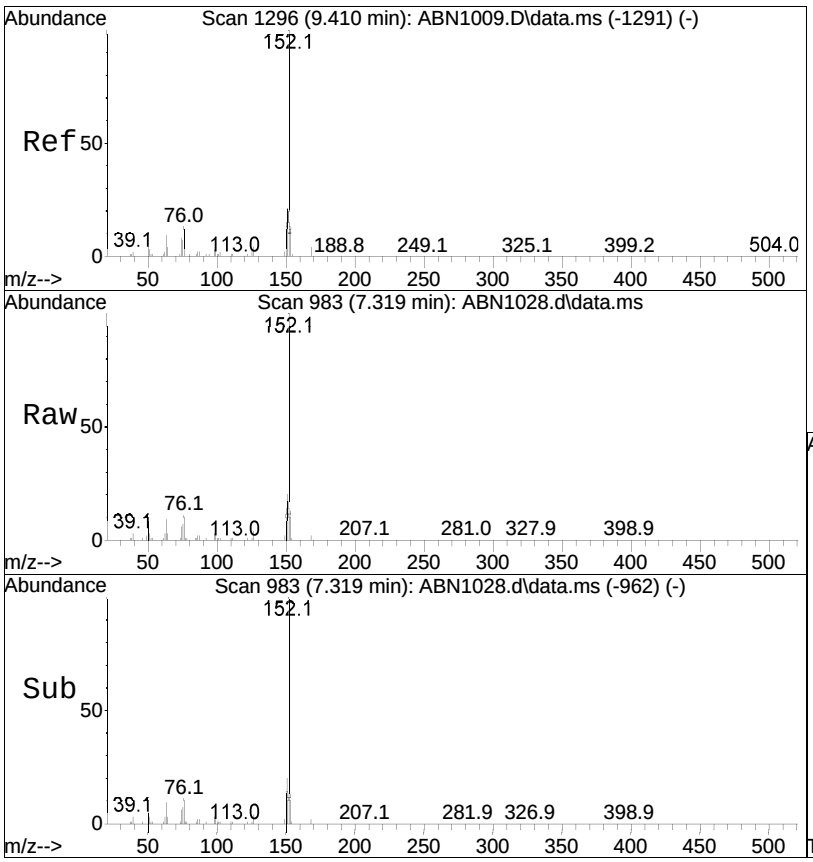


#50
Dimethyl phthalate
Concen: 4.84 ug/ml
RT: 7.242 min Scan# 970
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:163 Resp: 164262

Ion	Ratio	Lower	Upper
163	100		
194	3.0	3.5	5.3#
164	9.9	7.9	11.9

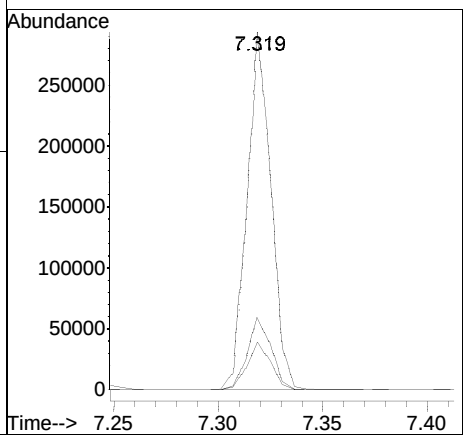


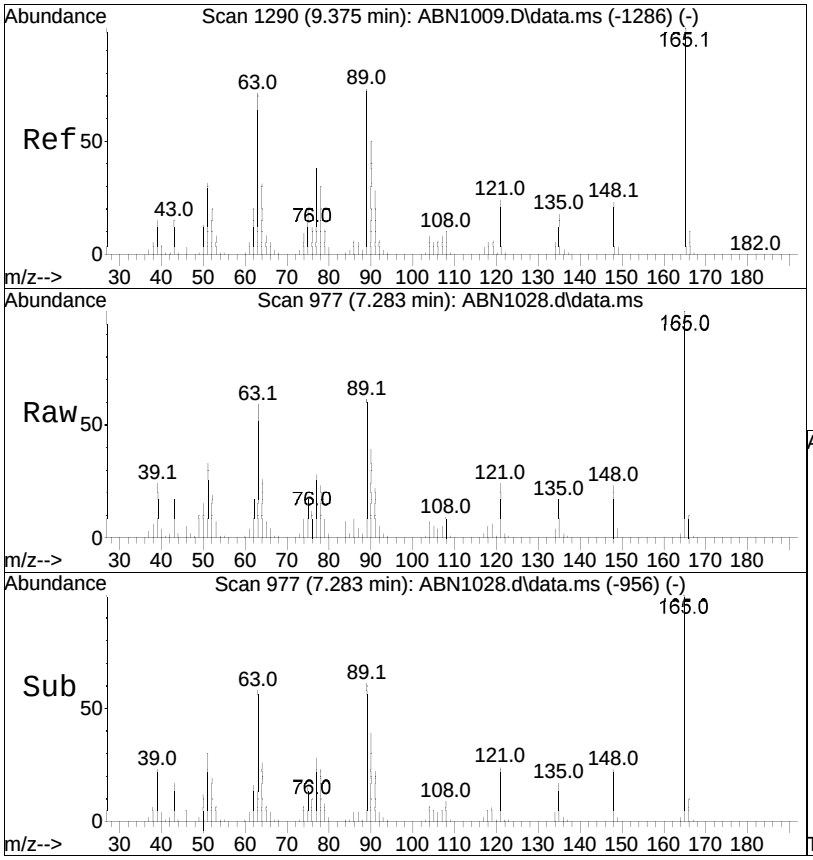


#51
Acenaphthylene
Concen: 5.09 ug/ml
RT: 7.319 min Scan# 983
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:152 Resp: 230762

Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.8	23.6
153	13.2	10.5	15.7

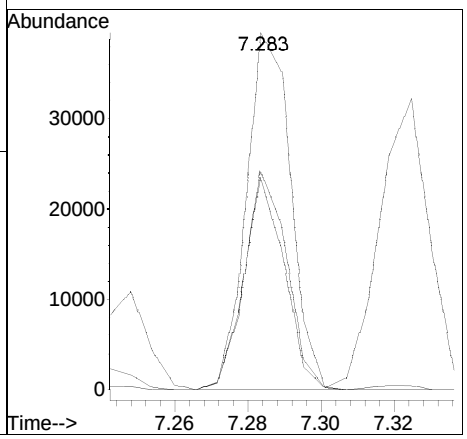


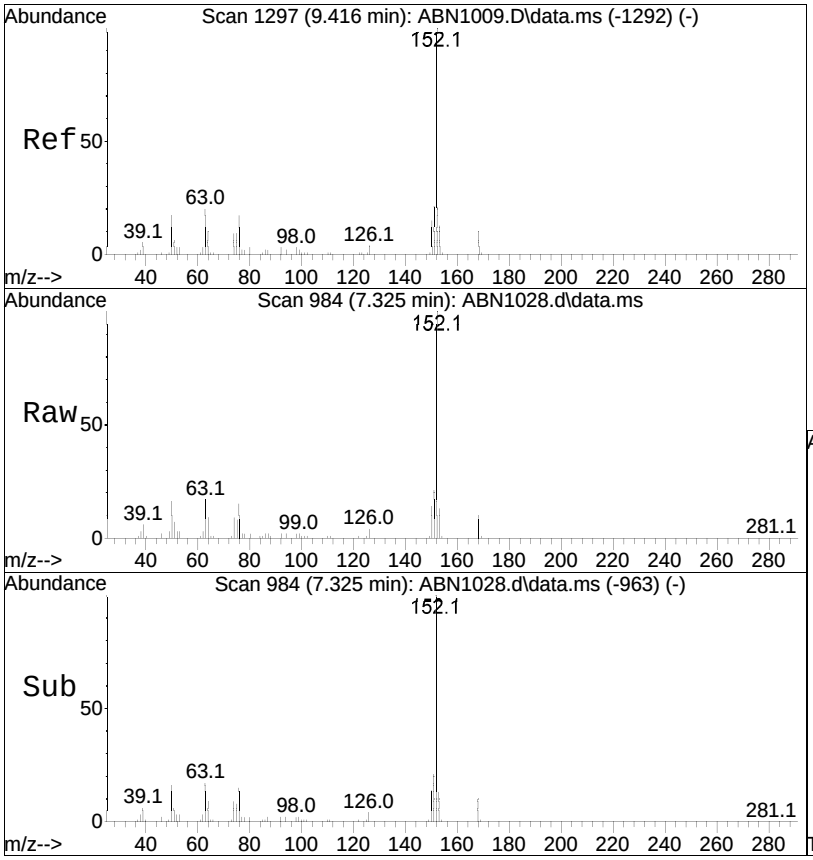


#52
2,6-Dinitrotoluene
Concen: 4.76 ug/ml
RT: 7.283 min Scan# 977
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:165 Resp: 33322

Ion	Ratio	Lower	Upper
165	100		
89	58.6	54.2	81.2
63	54.5	64.2	96.2#

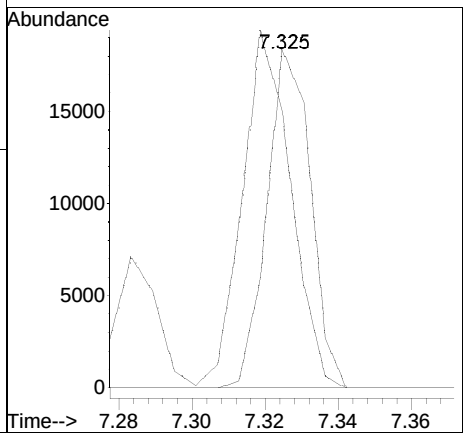


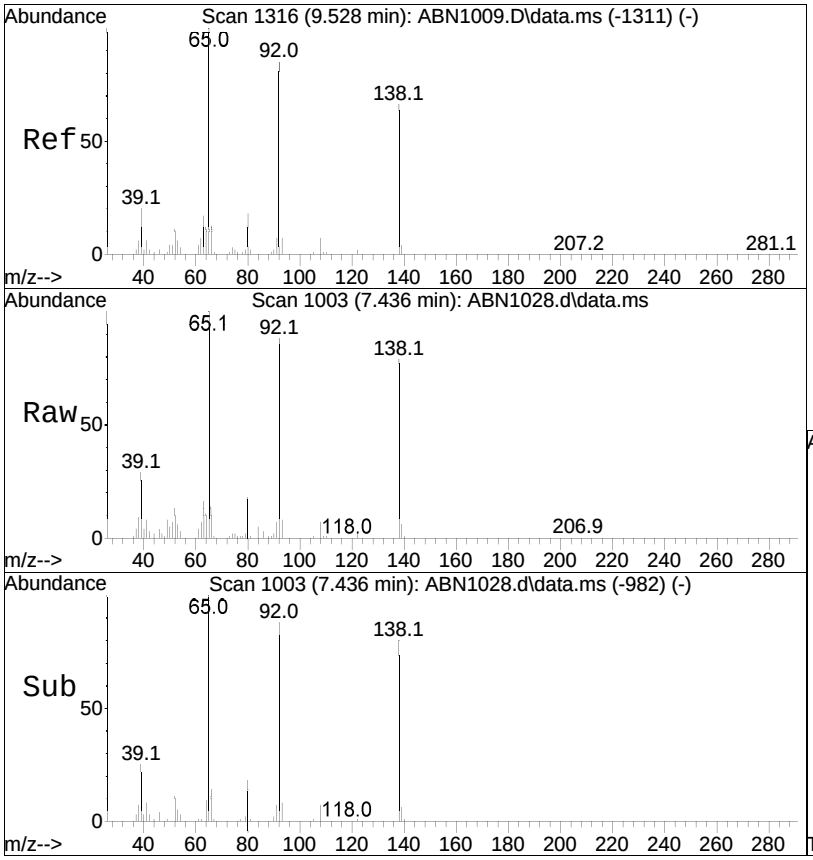


#53
1,2-Dinitrobenzene
Concen: 4.54 ug/ml
RT: 7.325 min Scan# 984
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:168 Resp: 15139

Ion	Ratio	Lower	Upper
168	100		
75	117.4	30.9	46.3#

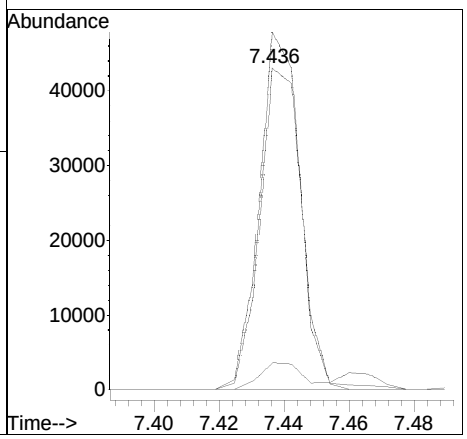


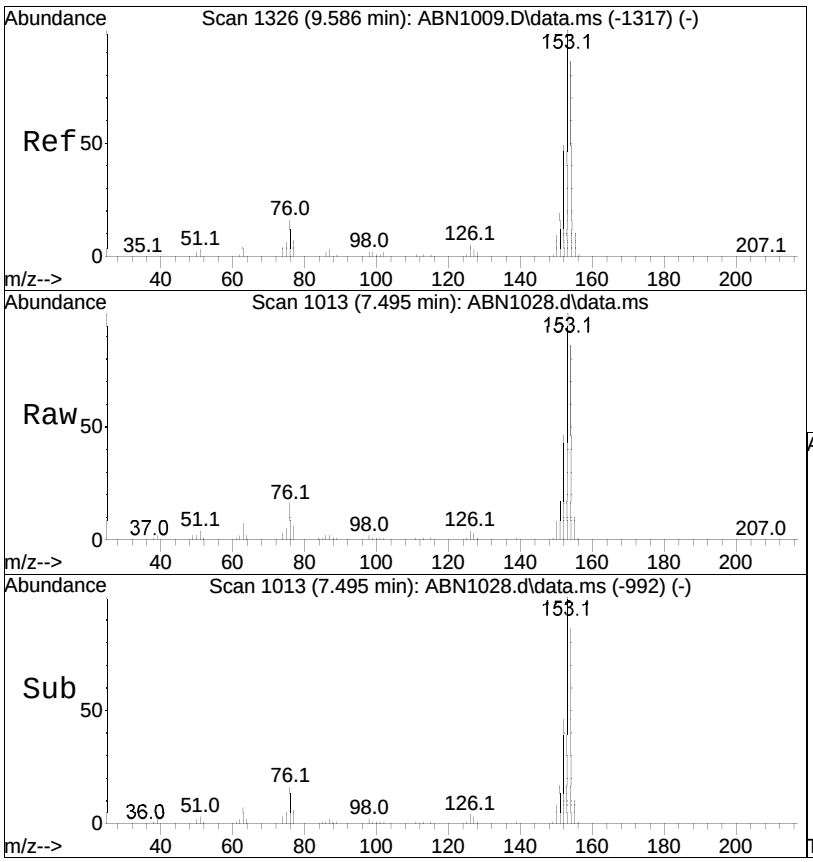


#63
3-Nitroaniline
Concen: 4.84 ug/ml
RT: 7.436 min Scan# 1003
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:138 Resp: 37863

Ion	Ratio	Lower	Upper
138	100		
92	109.1	93.4	140.2
108	9.1	9.5	14.3#

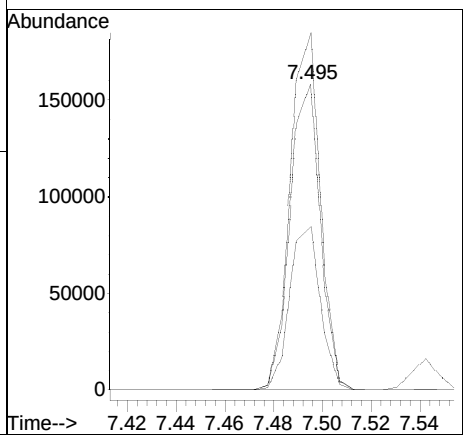


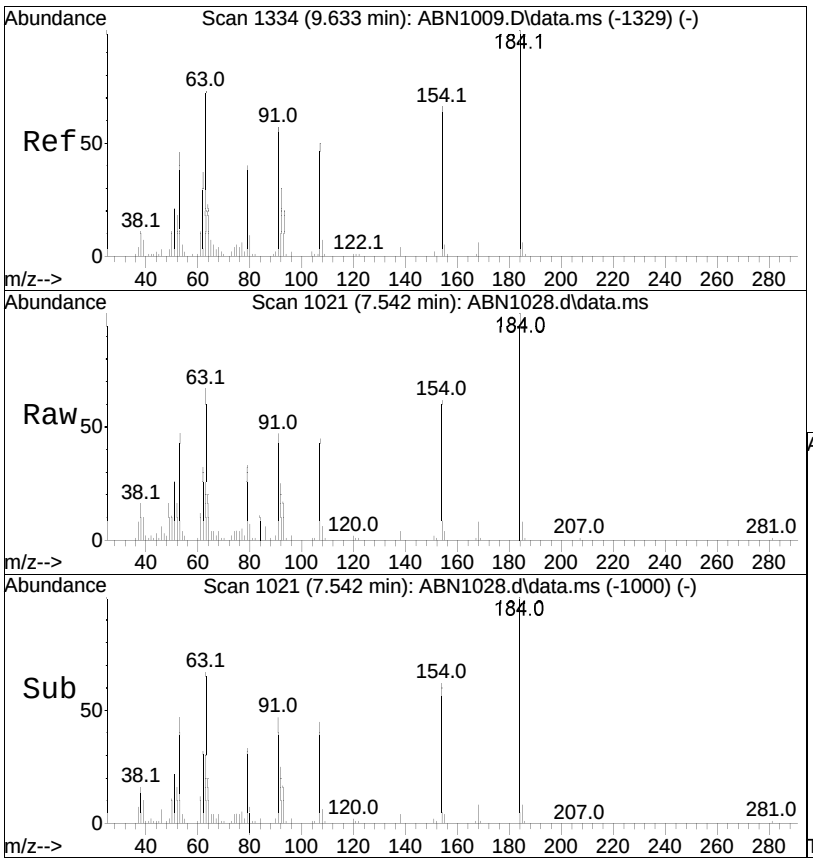


#64
Acenaphthene
Concen: 4.89 ug/ml
RT: 7.495 min Scan# 1013
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:154 Resp: 137151

Ion	Ratio	Lower	Upper
154	100		
153	116.3	85.3	127.9
152	54.5	41.4	62.0

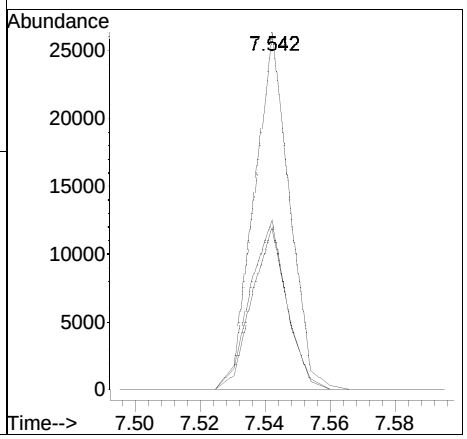


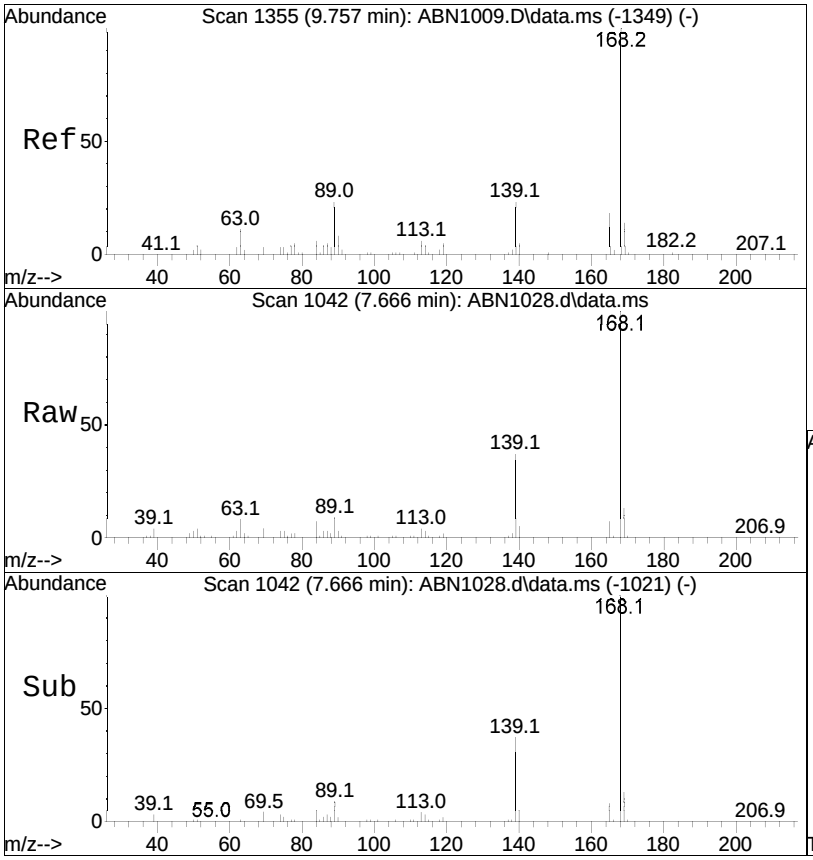


#65
2,4-Dinitrophenol
Concen: 5.05 ug/ml
RT: 7.542 min Scan# 1021
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:184 Resp: 19714

Ion	Ratio	Lower	Upper
184	100		
107	45.5	37.7	56.5
91	49.3	46.3	69.5

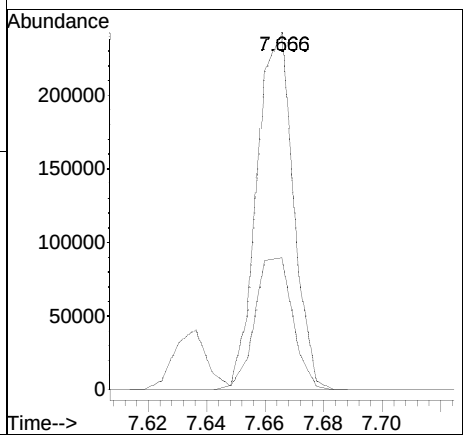


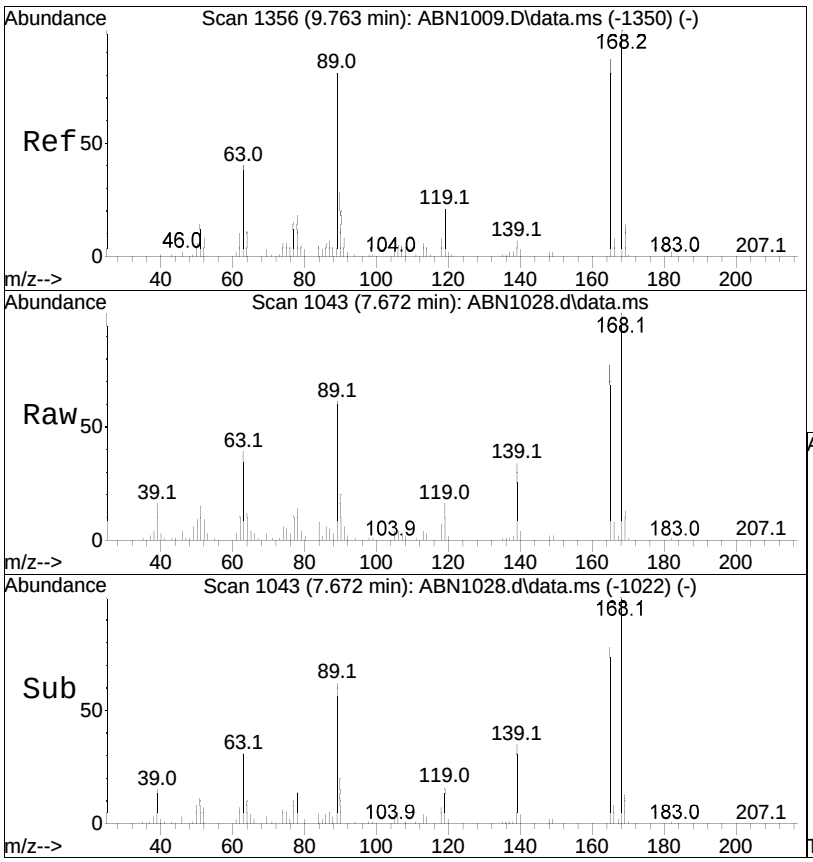


#66
Dibenzofuran
Concen: 4.85 ug/ml
RT: 7.666 min Scan# 1042
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:168 Resp: 208719

Ion	Ratio	Lower	Upper
168	100		
139	38.1	31.4	47.2

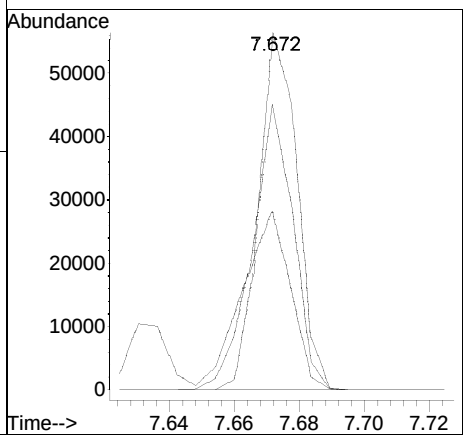


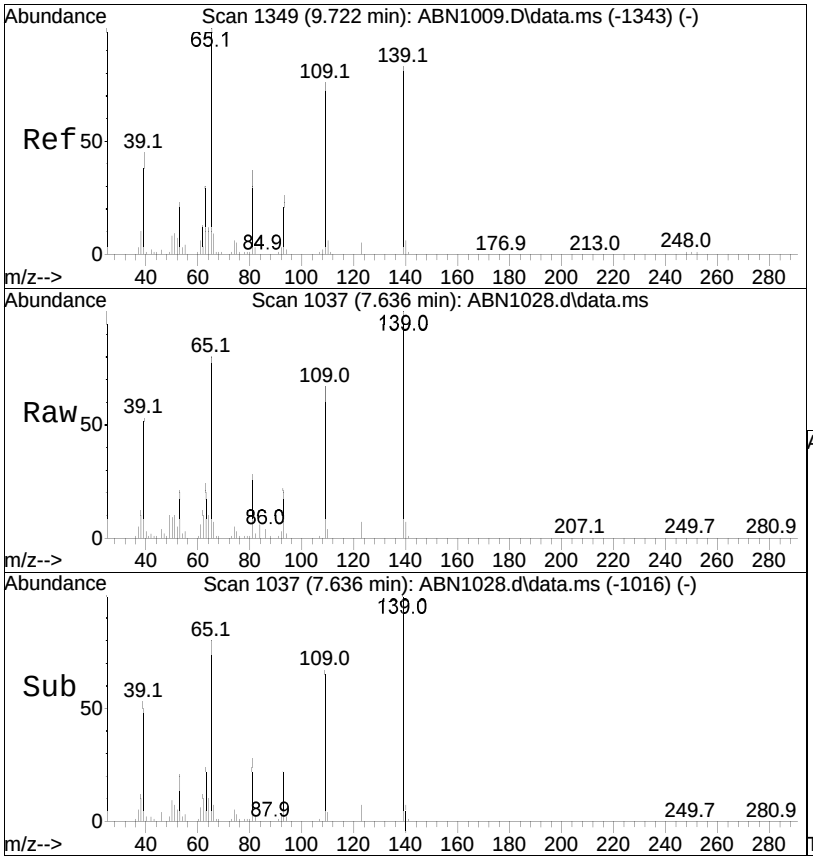


#67
2,4-Dinitrotoluene
Concen: 4.80 ug/ml
RT: 7.672 min Scan# 1043
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:165 Resp: 45870

Ion	Ratio	Lower	Upper
165	100		
89	85.6	72.0	108.0
63	63.1	52.7	79.1

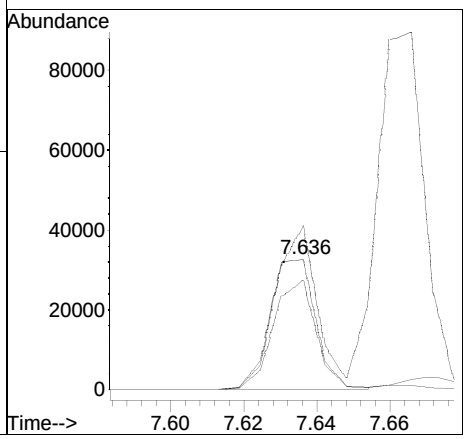


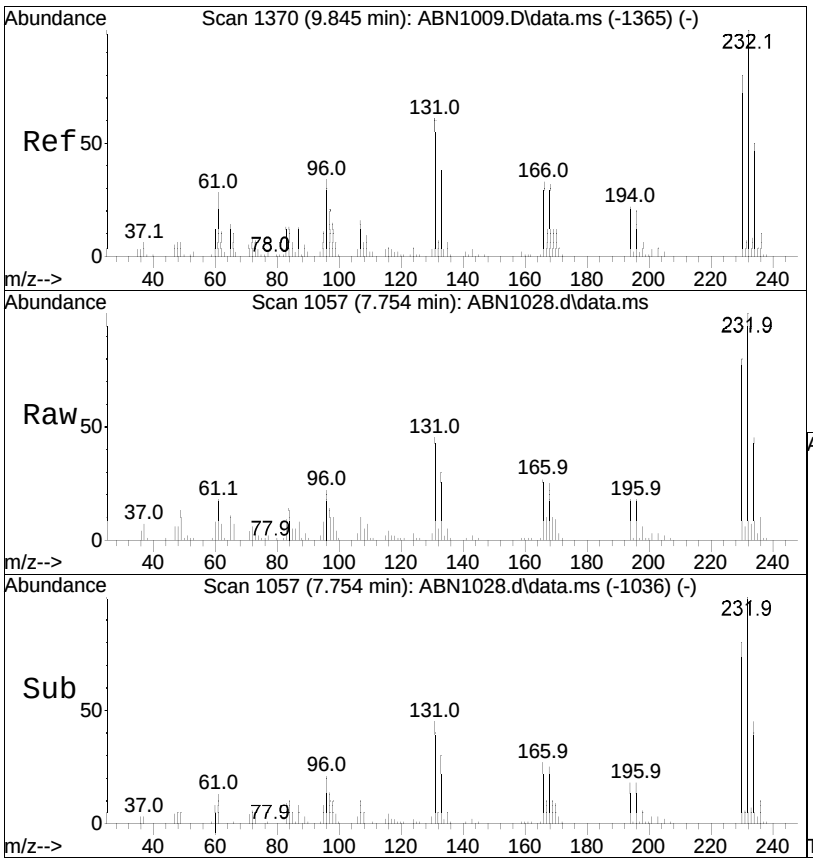


#68
4-Nitrophenol
Concen: 4.80 ug/ml
RT: 7.636 min Scan# 1037
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion: 65 Resp: 28614

Ion	Ratio	Lower	Upper
65	100		
109	78.2	47.4	71.2#
139	114.6	76.6	115.0

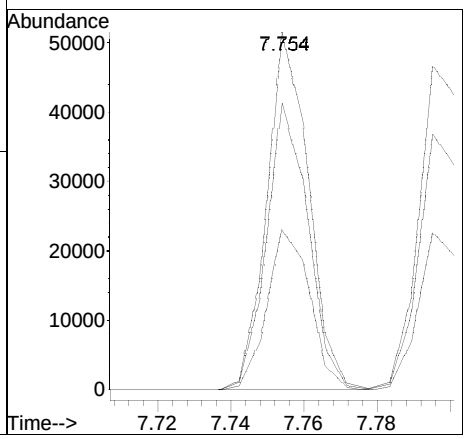


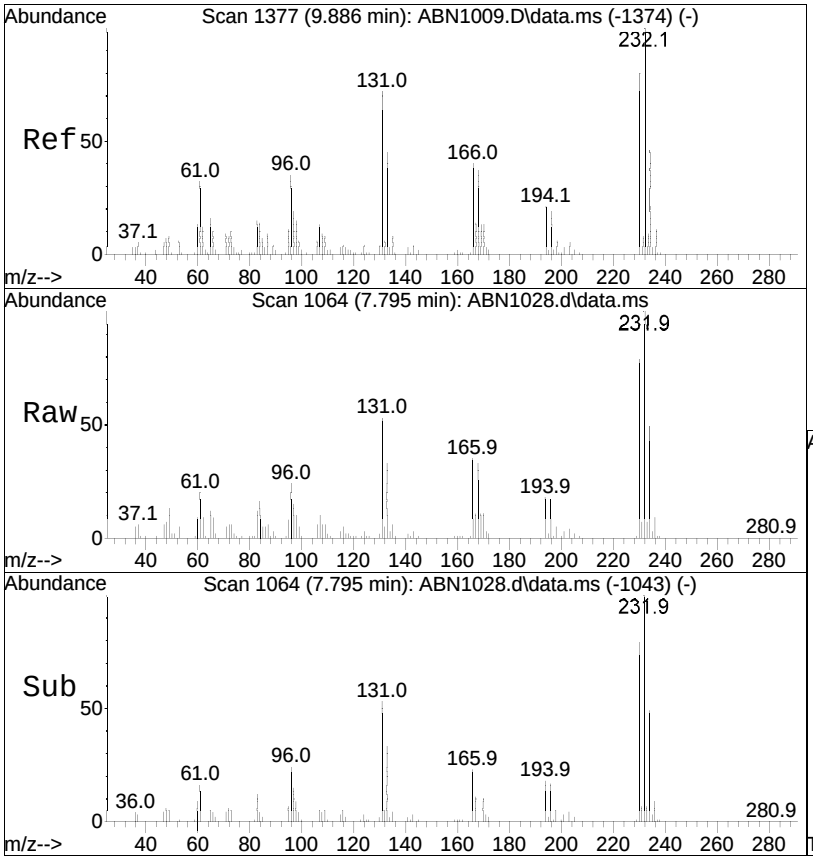


#69
2,3,5,6-Tetrachlorophenol
Concen: 4.72 ug/ml
RT: 7.754 min Scan# 1057
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:232 Resp: 40898

Ion	Ratio	Lower	Upper
232	100		
230	80.1	64.2	96.4
234	46.1	38.1	57.1

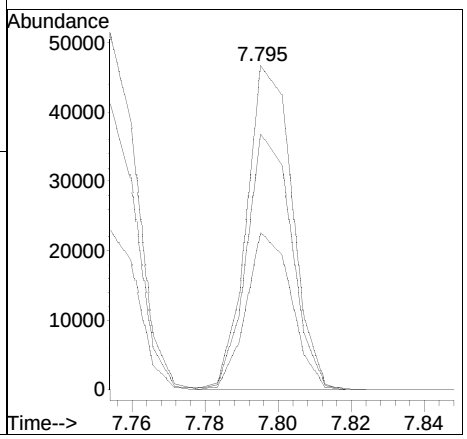


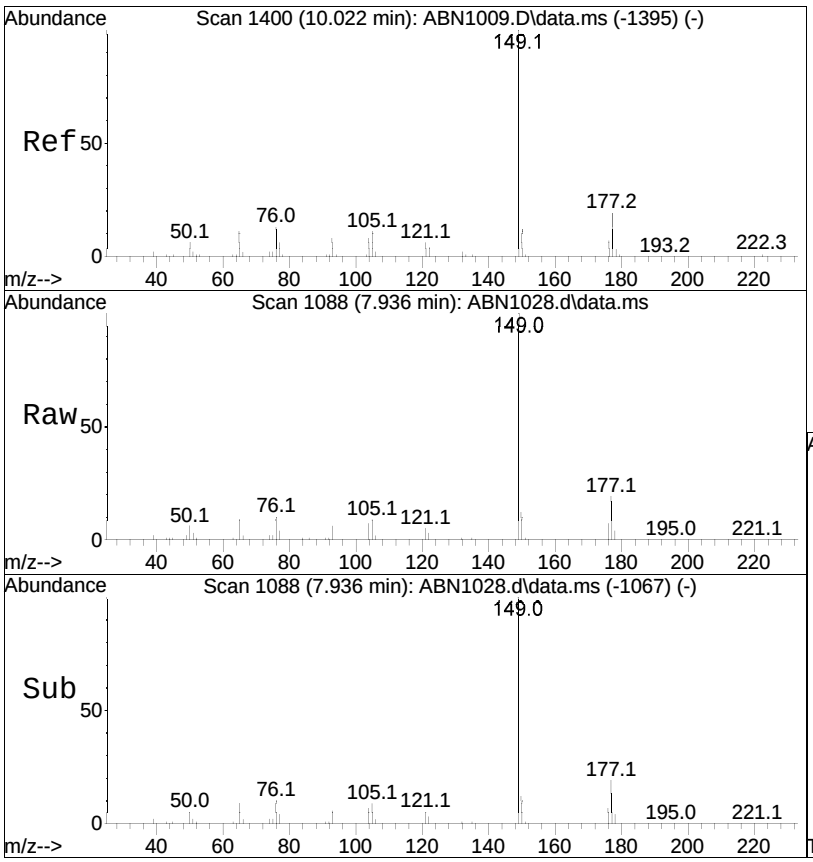


#70
2,3,4,6-Tetrachlorophenol
Concen: 4.87 ug/ml
RT: 7.795 min Scan# 1064
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:232 Resp: 40492

Ion	Ratio	Lower	Upper
232	100		
230	78.2	61.8	92.8
234	48.1	36.2	54.2

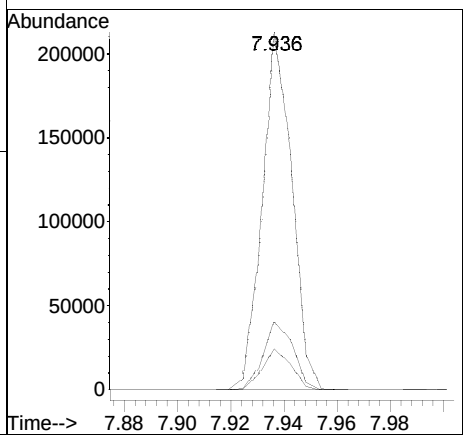


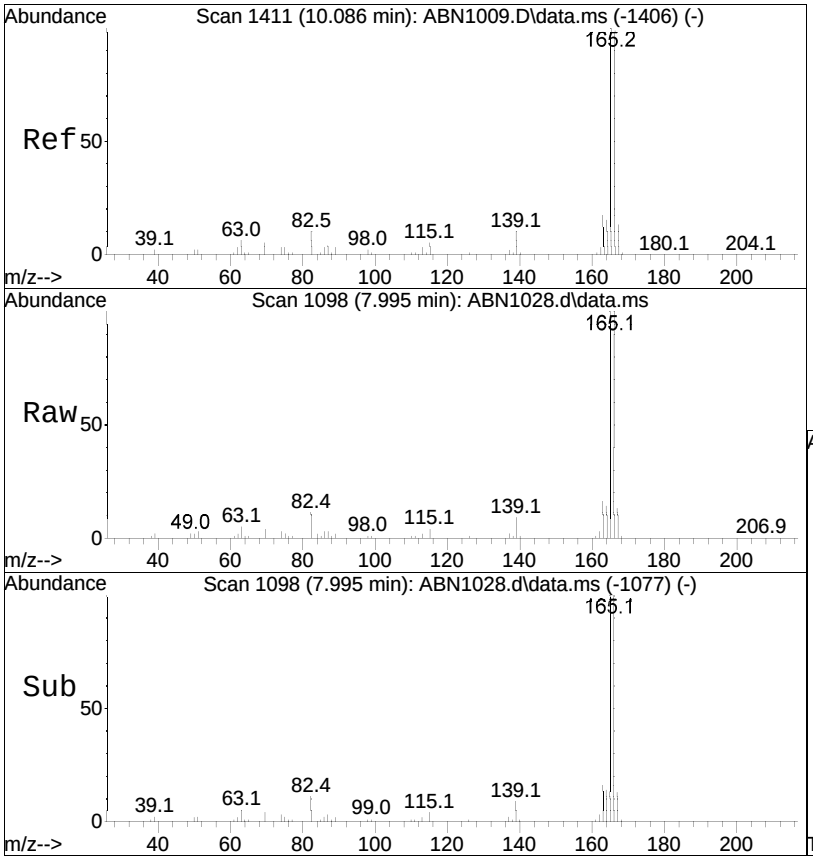


#71
Diethyl phthalate
Concen: 4.70 ug/ml
RT: 7.936 min Scan# 1088
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:149 Resp: 162165

Ion	Ratio	Lower	Upper
149	100		
177	19.5	16.1	24.1
150	11.5	9.4	14.2

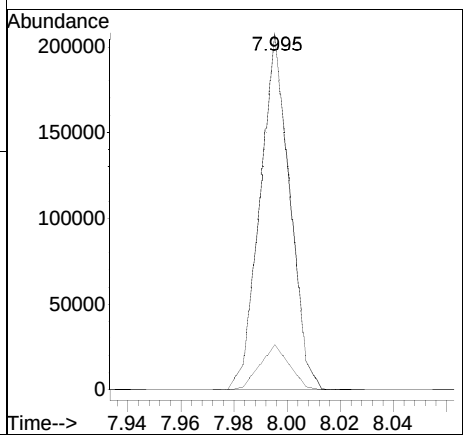


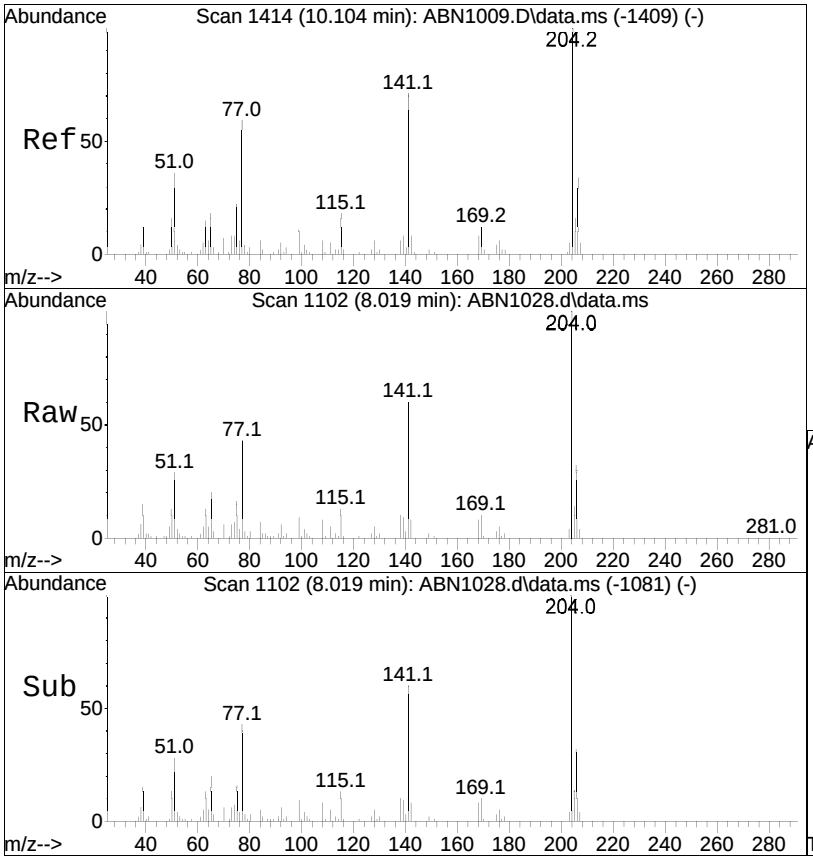


#72
Fluorene
Concen: 4.91 ug/ml
RT: 7.995 min Scan# 1098
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:166 Resp: 161089

Ion	Ratio	Lower	Upper
166	100		
165	100.1	76.2	114.2
167	13.1	10.6	15.8

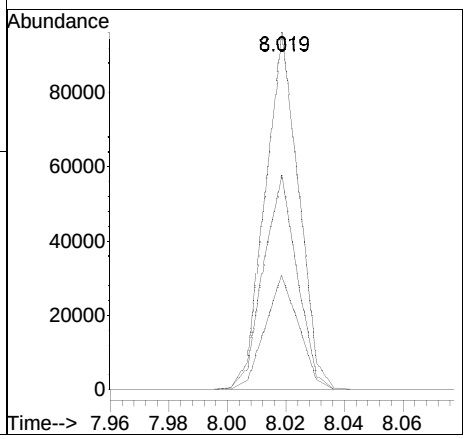


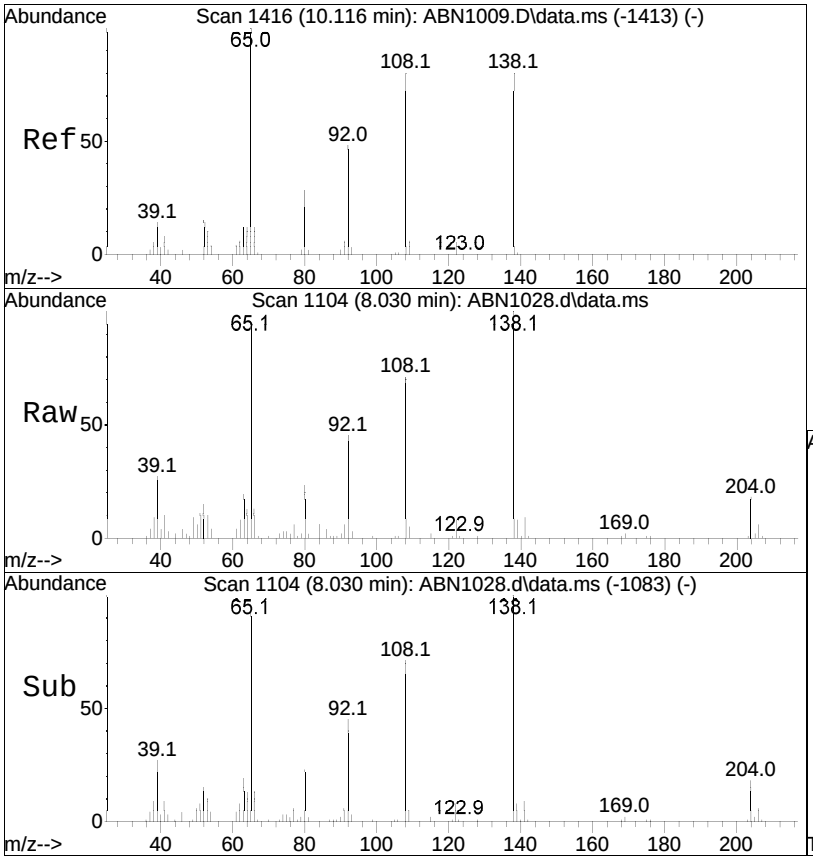


#73
4-Chlorophenyl phenyl ether
Concen: 4.69 ug/ml
RT: 8.019 min Scan# 1102
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:204 Resp: 75920

Ion	Ratio	Lower	Upper
204	100		
206	32.3	25.8	38.6
141	60.7	53.6	80.4

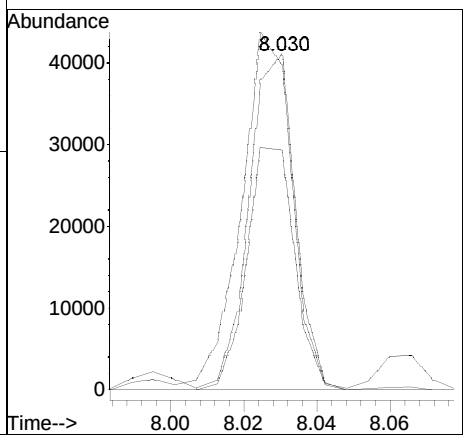


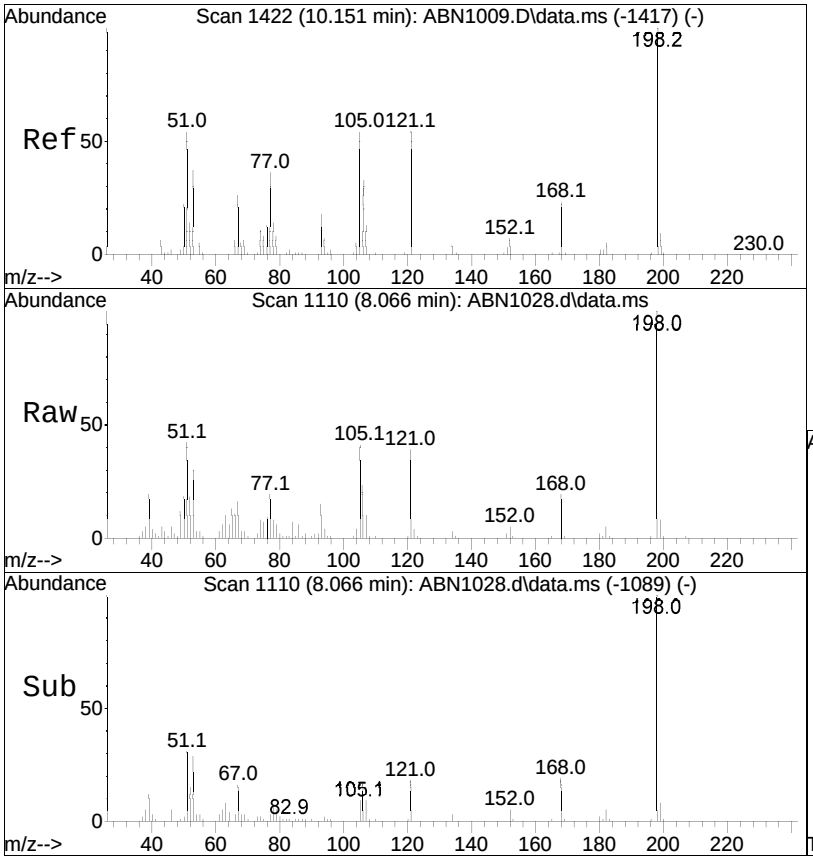


#74
4-Nitroaniline
Concen: 4.64 ug/ml
RT: 8.030 min Scan# 1104
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:138 Resp: 35903

Ion	Ratio	Lower	Upper
138	100		
108	74.8	52.1	78.1
65	119.8	115.0	172.6

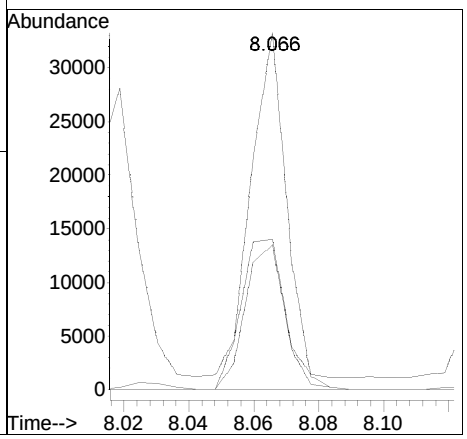


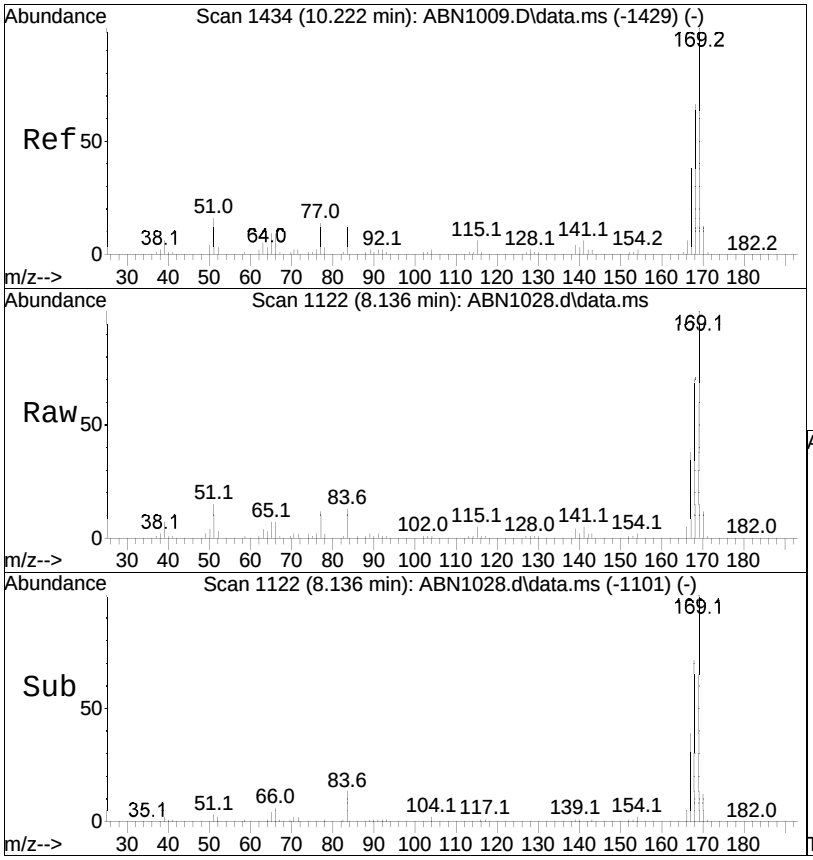


#75
4,6-Dinitro-o-cresol
Concen: 4.99 ug/ml
RT: 8.066 min Scan# 1110
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:198 Resp: 25819

Ion	Ratio	Lower	Upper
198	100		
51	44.8	76.0	114.0#
105	44.2	45.6	68.4#

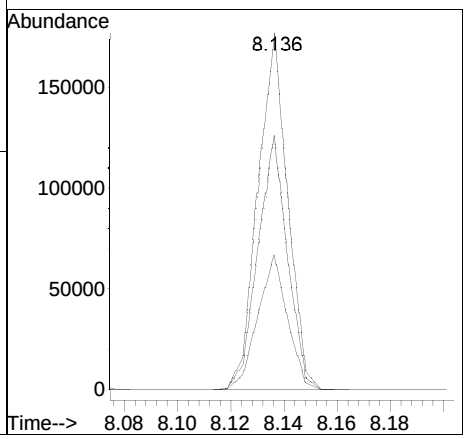


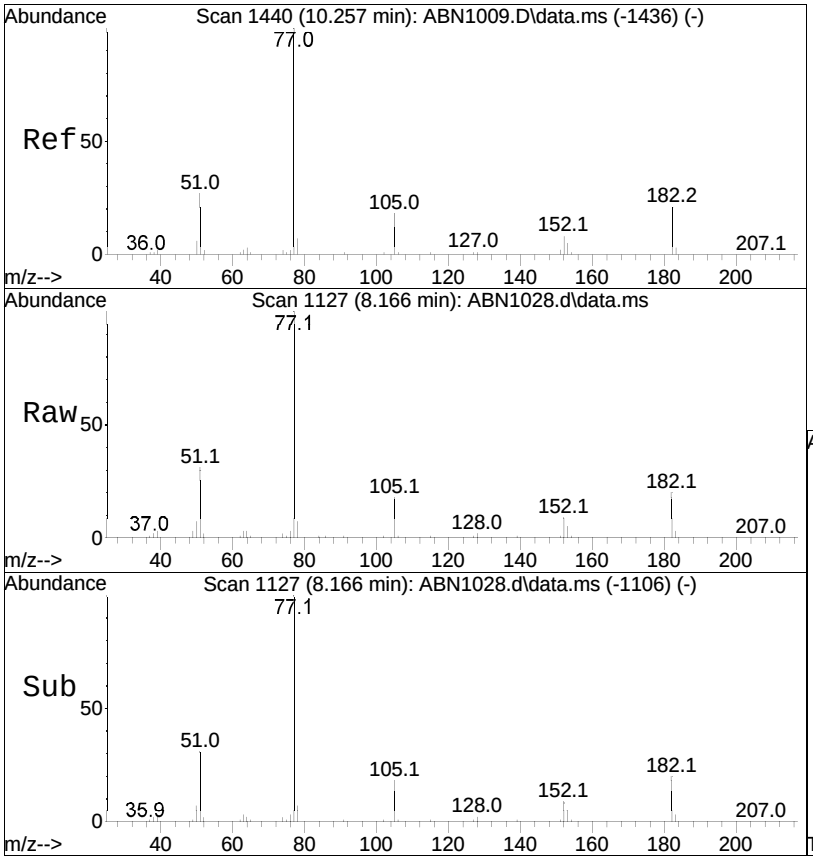


#76
NDPA/DPA
Concen: 4.98 ug/ml
RT: 8.136 min Scan# 1122
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:169 Resp: 136563

Ion	Ratio	Lower	Upper
169	100		
168	70.8	54.0	81.0
167	38.0	28.6	42.8

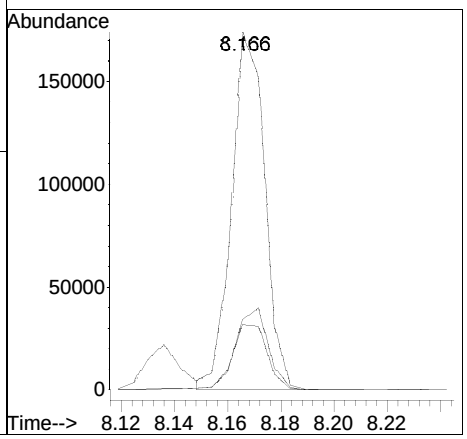


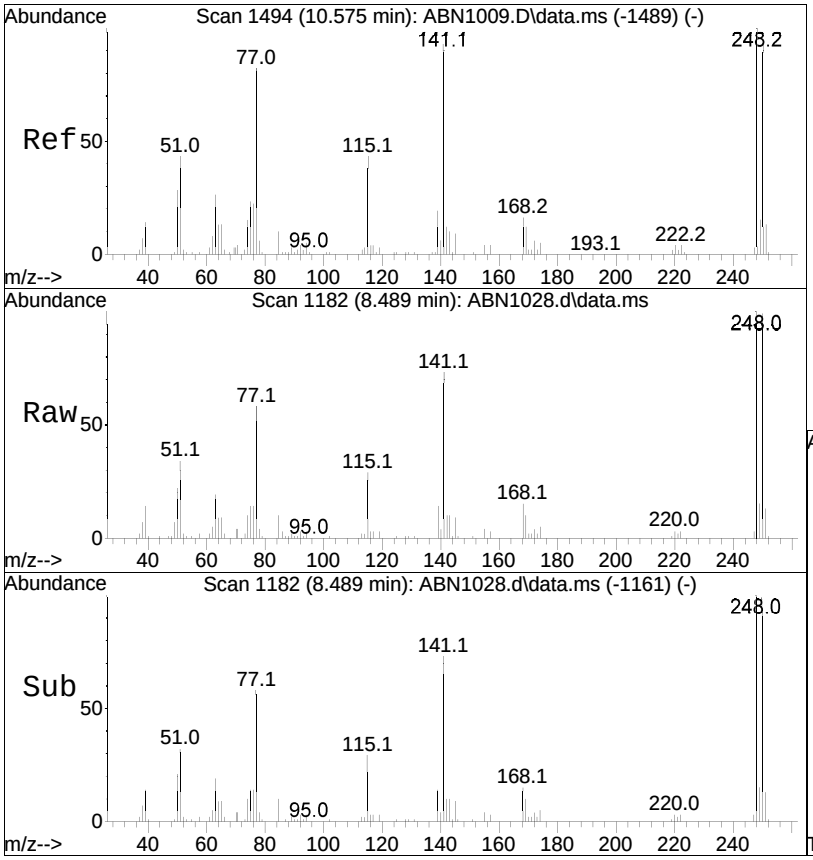


#77
Azobenzene
Concen: 4.64 ug/ml
RT: 8.166 min Scan# 1127
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion: 77 Resp: 149358

Ion	Ratio	Lower	Upper
77	100		
182	23.2	17.4	26.2
105	20.2	15.4	23.2

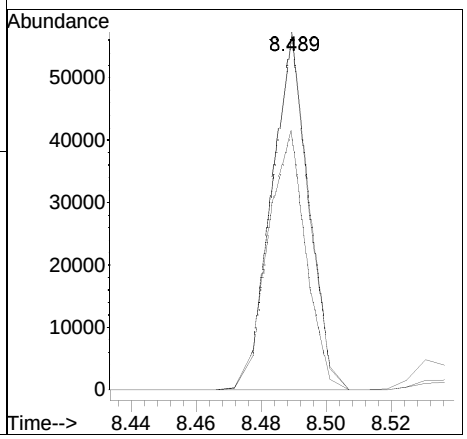


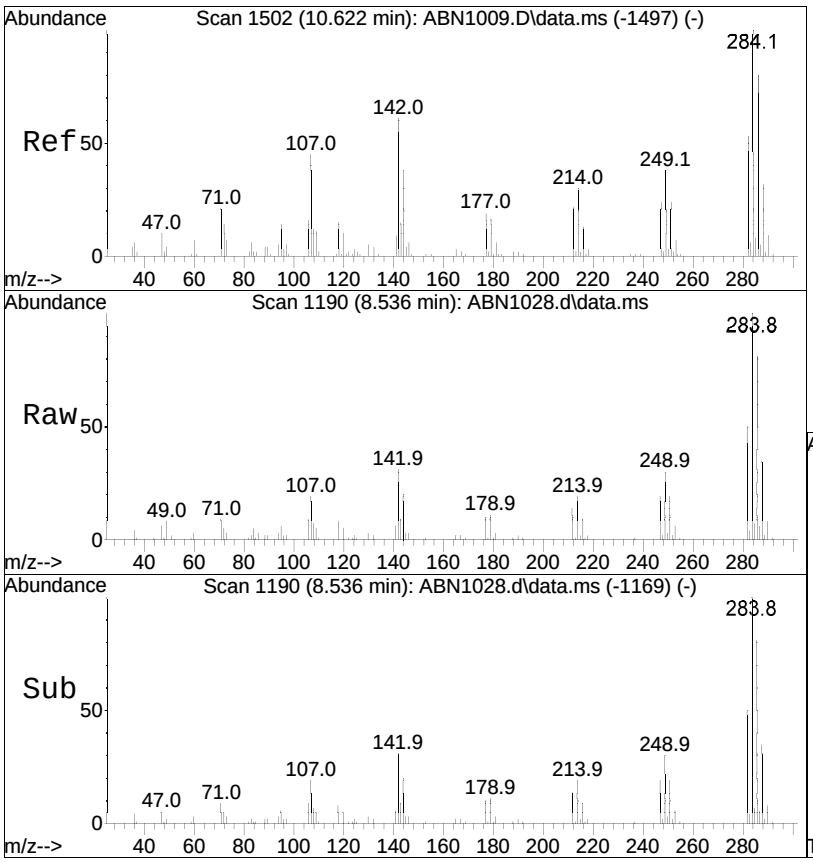


#79
4-Bromophenyl phenyl ether
Concen: 4.67 ug/ml
RT: 8.489 min Scan# 1182
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:248 Resp: 44974

Ion	Ratio	Lower	Upper
248	100		
141	74.6	76.6	114.8#
250	98.5	77.3	115.9

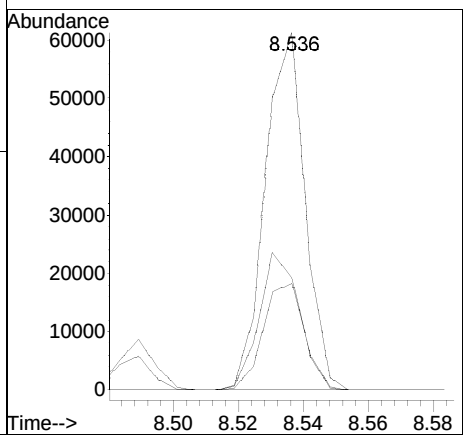


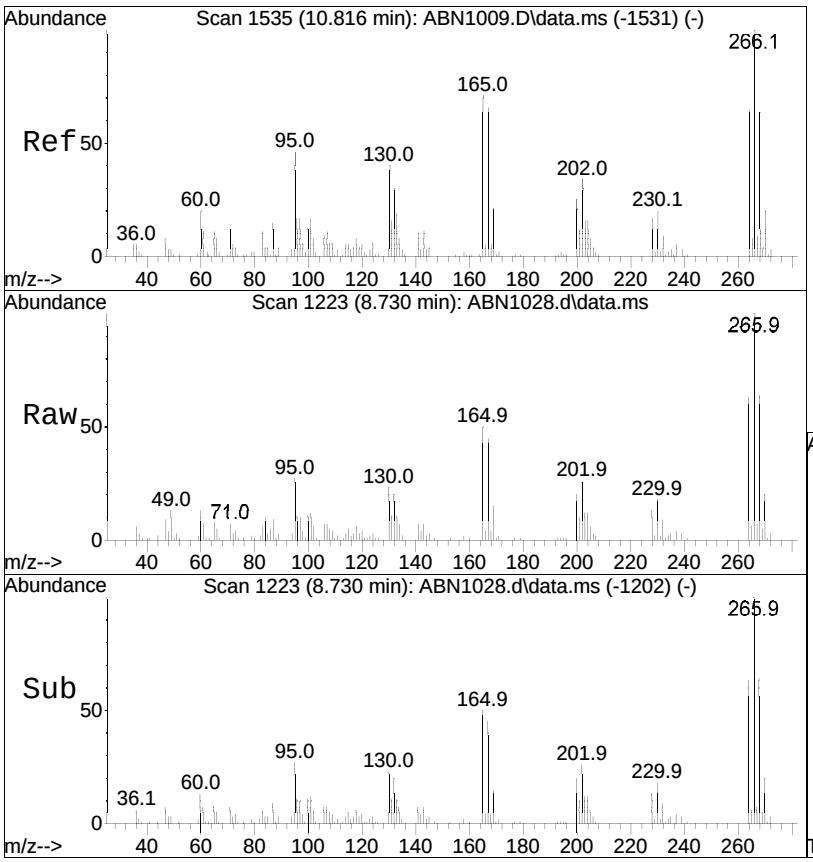


#80
Hexachlorobenzene
Concen: 4.65 ug/ml
RT: 8.536 min Scan# 1190
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:284 Resp: 52076

Ion	Ratio	Lower	Upper
284	100		
142	38.9	41.9	62.9#
249	31.1	24.1	36.1

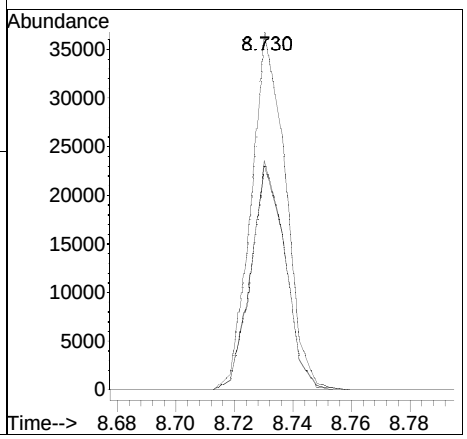


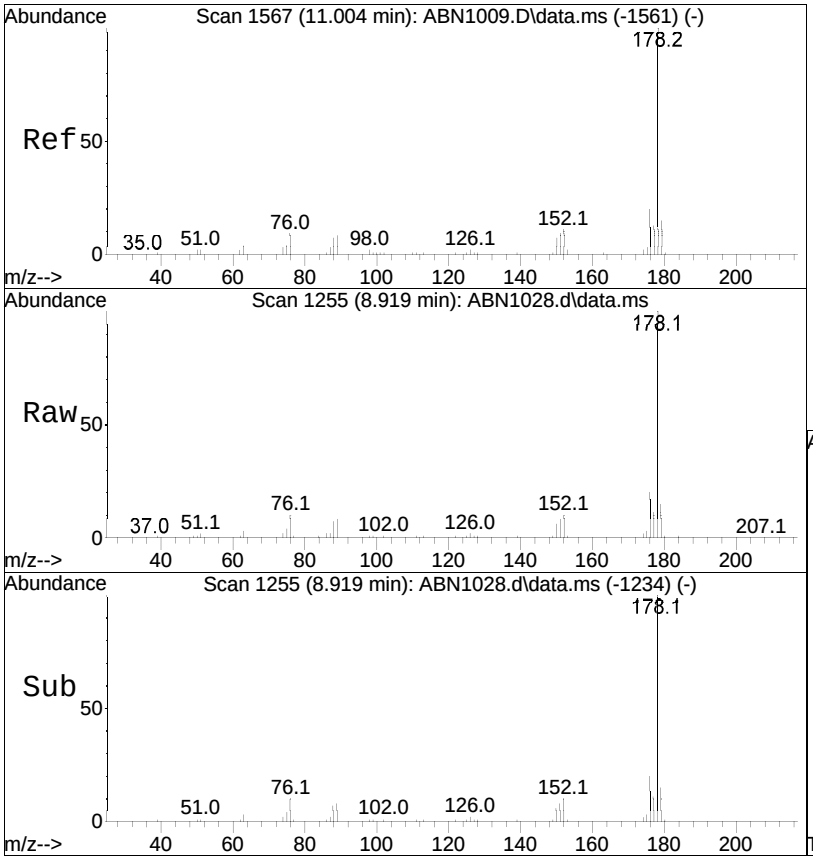


#81
Pentachlorophenol
Concen: 4.43 ug/ml
RT: 8.730 min Scan# 1223
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:266 Resp: 29827

Ion	Ratio	Lower	Upper
266	100		
264	63.2	49.7	74.5
268	63.1	50.5	75.7

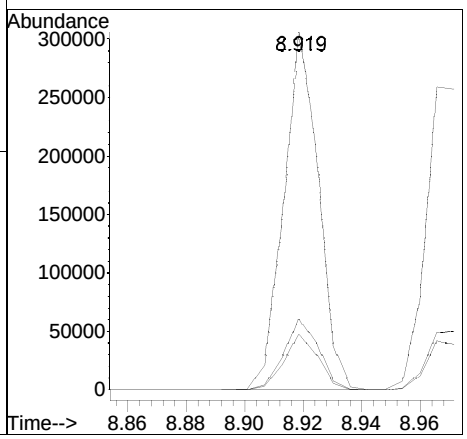


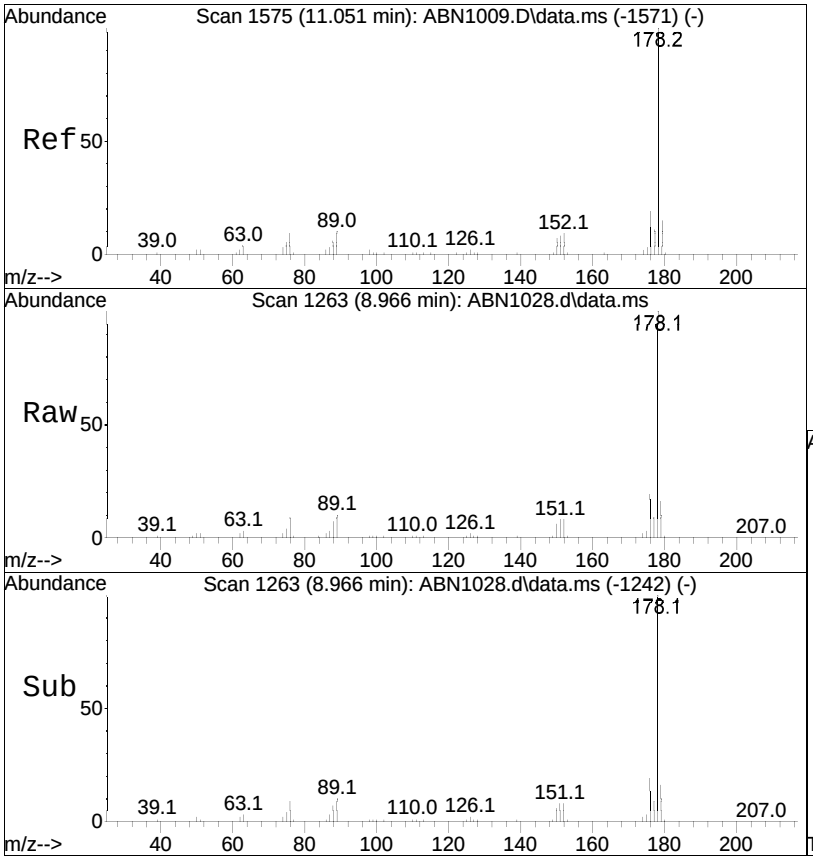


#88
Phenanthrene
Concen: 4.97 ug/ml
RT: 8.919 min Scan# 1255
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:178 Resp: 251638

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.2	18.2
176	19.8	15.4	23.2

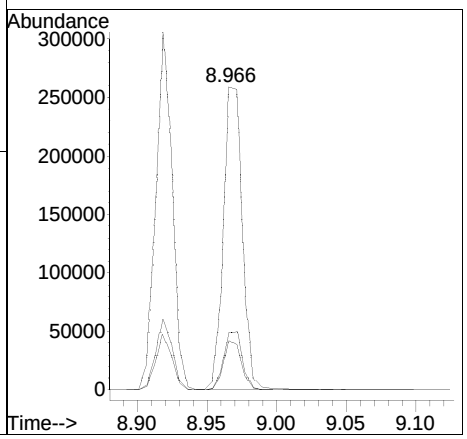


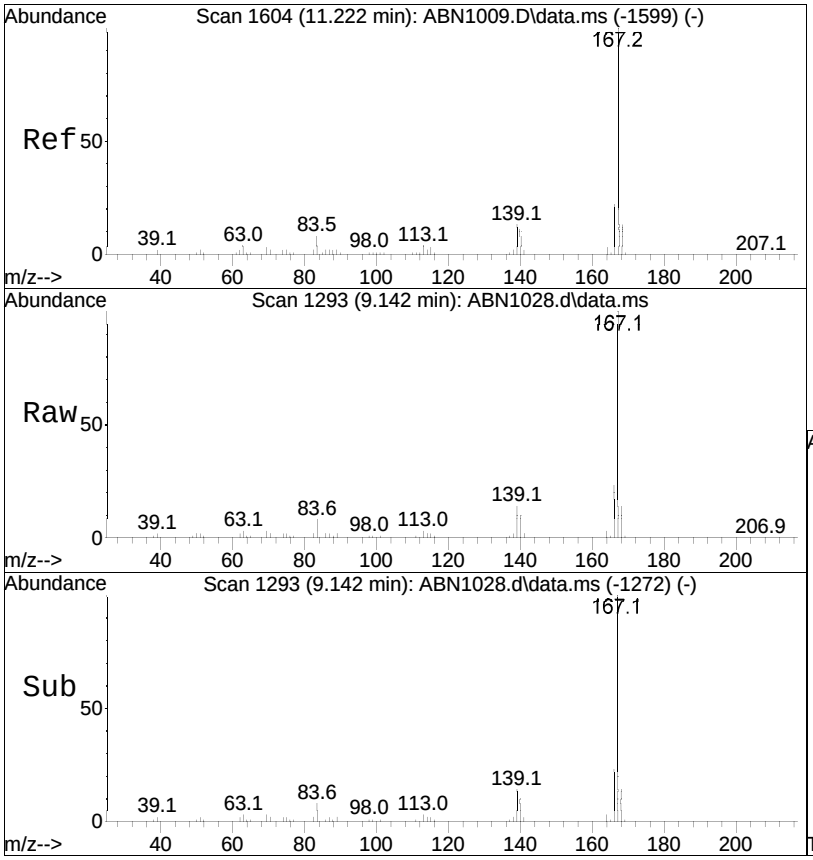


#89
Anthracene
Concen: 5.03 ug/ml
RT: 8.966 min Scan# 1263
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:178 Resp: 245133

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.0	18.0
176	19.1	14.6	22.0

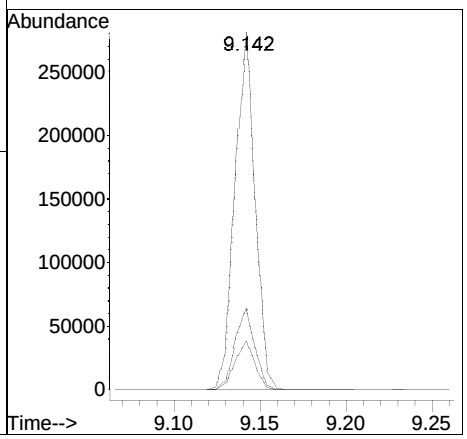


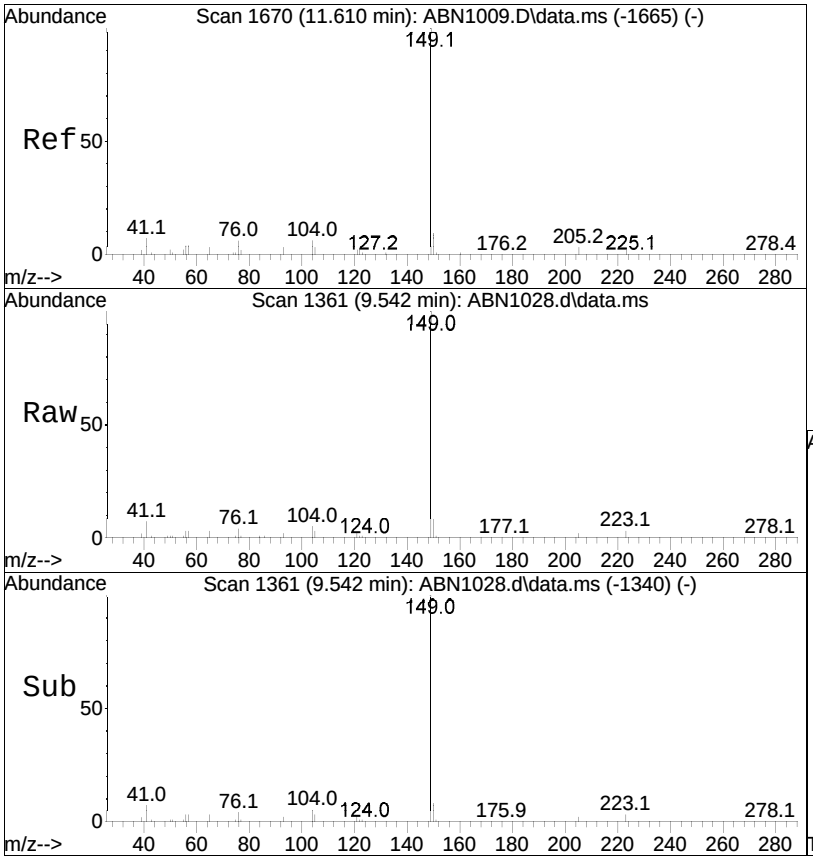


#90
Carbazole
Concen: 5.13 ug/ml
RT: 9.142 min Scan# 1293
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:167 Resp: 226354

Ion	Ratio	Lower	Upper
167	100		
168	13.7	10.6	15.8
166	22.6	17.4	26.0

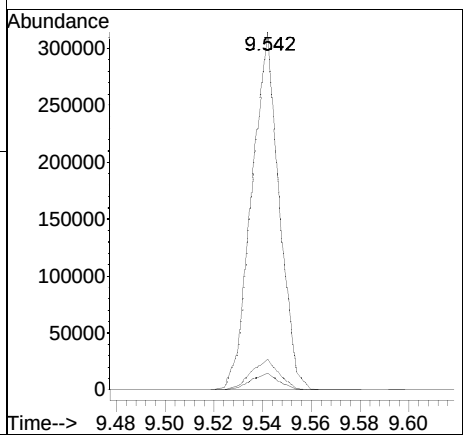


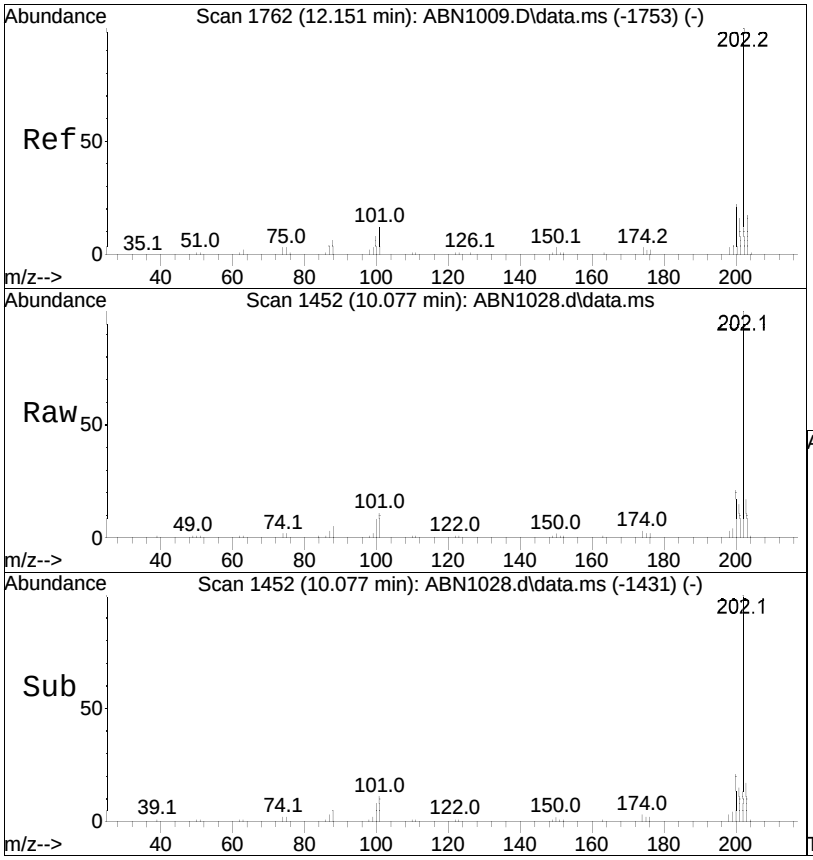


#91
Di-n-butylphthalate
Concen: 4.36 ug/ml
RT: 9.542 min Scan# 1361
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:149 Resp: 242352

Ion	Ratio	Lower	Upper
149	100		
150	8.8	7.0	10.6
104	4.8	4.5	6.7

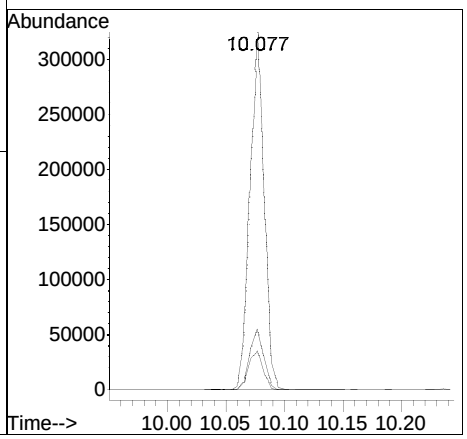


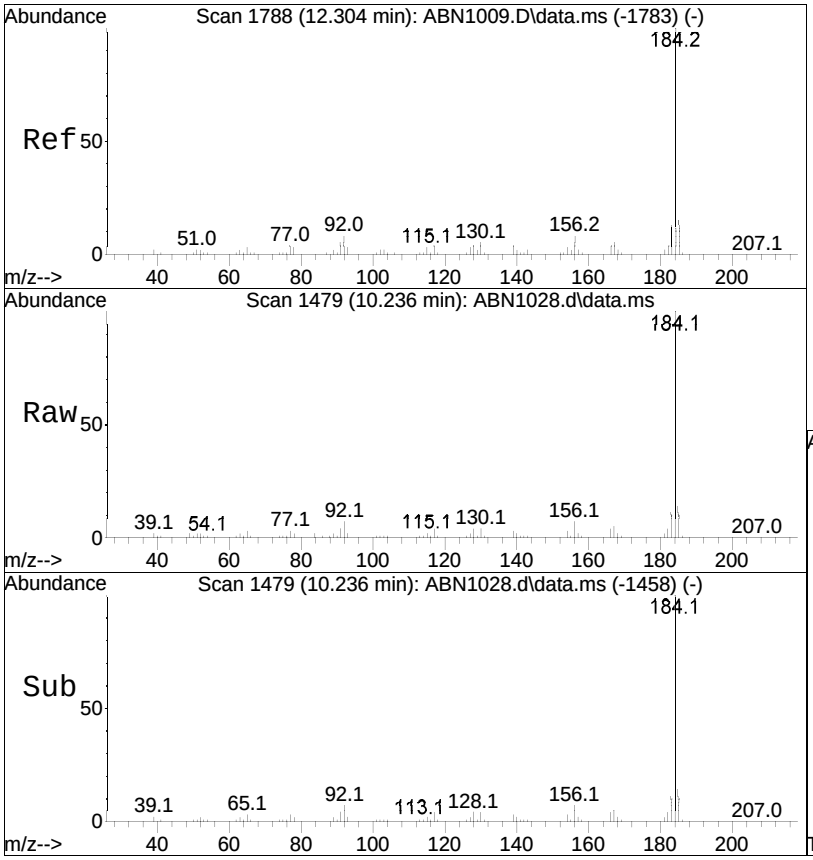


#92
Fluoranthene
Concen: 5.13 ug/ml
RT: 10.077 min Scan# 1452
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:202 Resp: 270159

Ion	Ratio	Lower	Upper
202	100		
101	11.4	13.5	20.3#
203	17.3	13.6	20.4

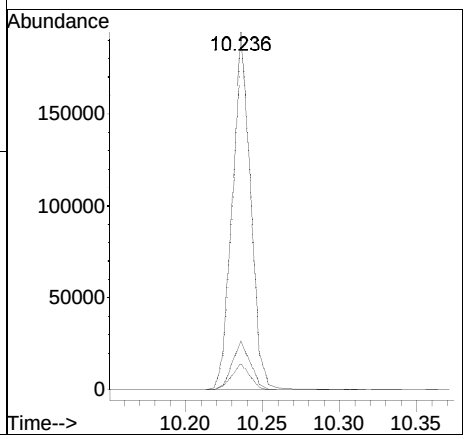


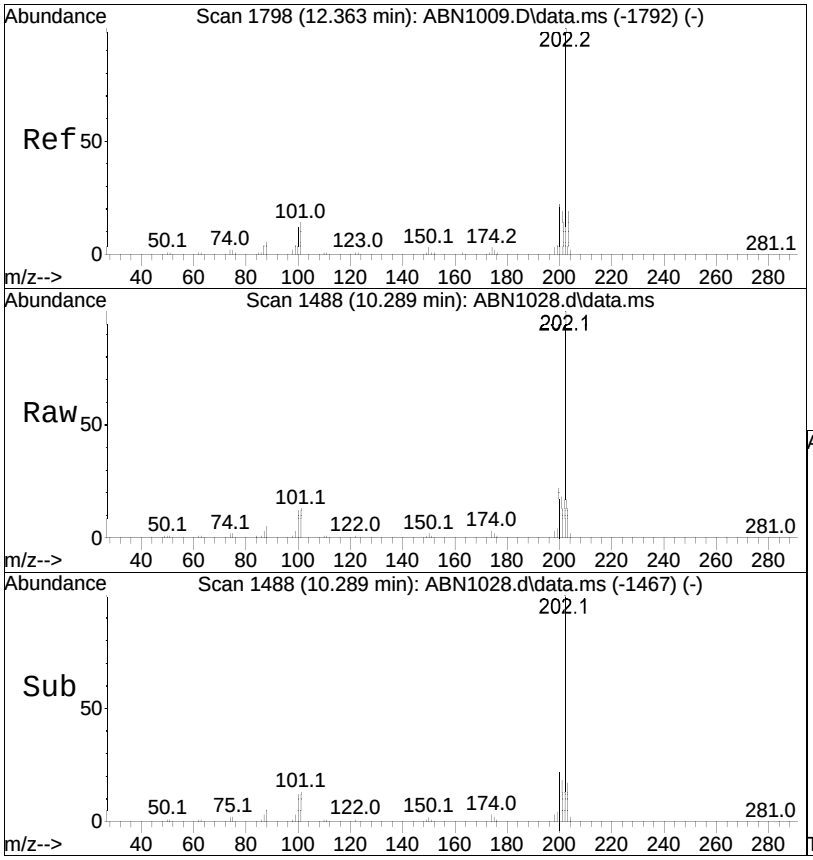


#93
Benzidine
Concen: 4.20 ug/ml
RT: 10.236 min Scan# 1479
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:184 Resp: 156688

Ion	Ratio	Lower	Upper
184	100		
92	7.4	9.1	13.7#
185	13.7	11.1	16.7

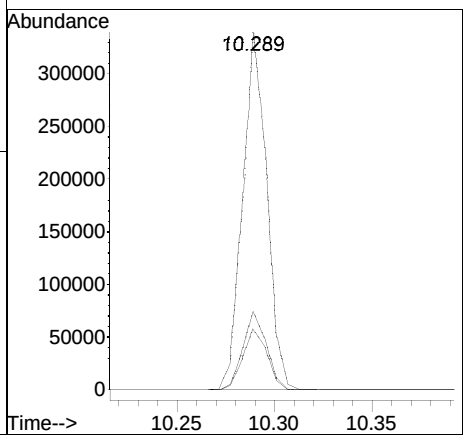


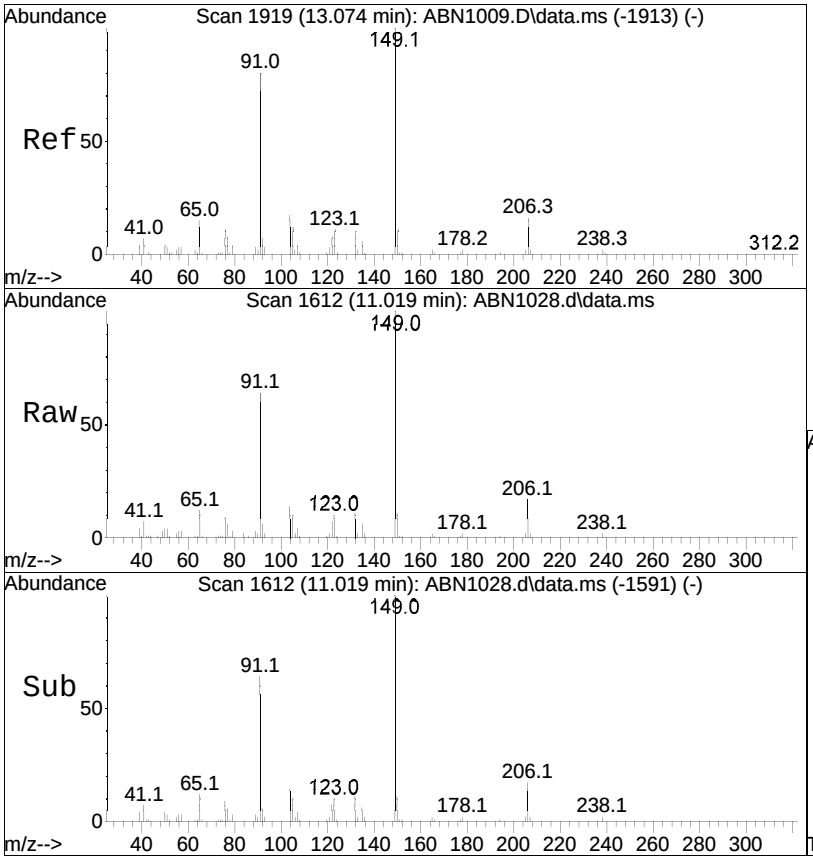


#94
Pyrene
Concen: 5.21 ug/ml
RT: 10.289 min Scan# 1488
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:202 Resp: 289278

Ion	Ratio	Lower	Upper
202	100		
200	21.6	16.7	25.1
203	17.3	14.2	21.4

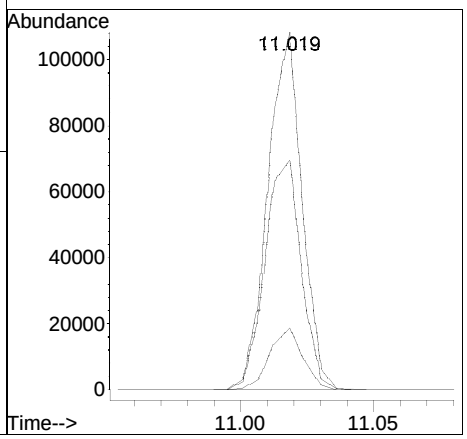


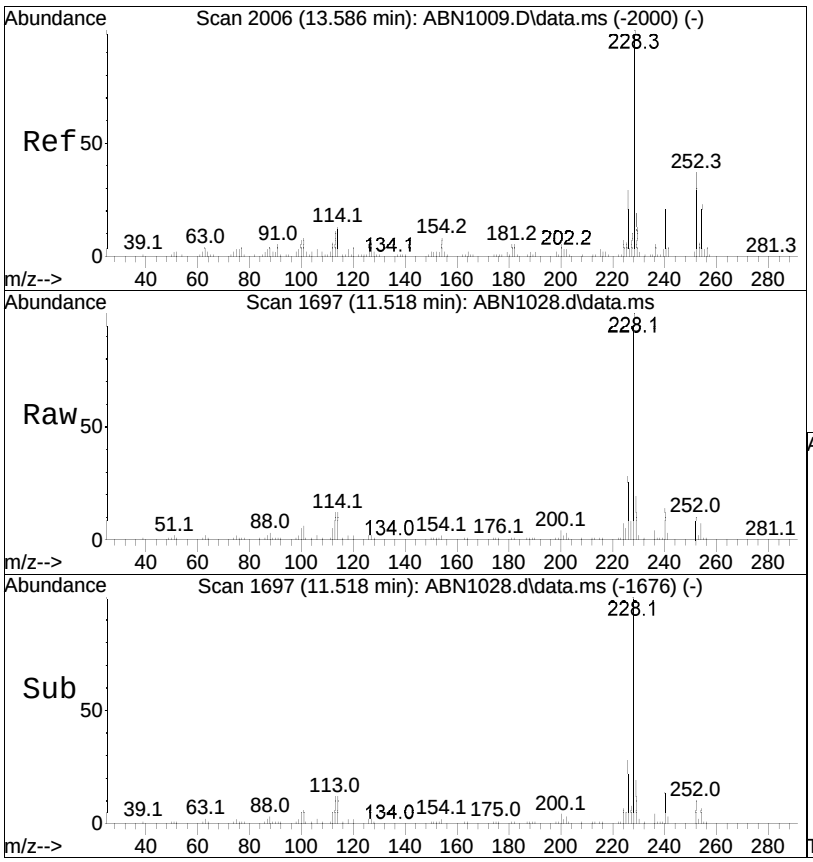


#96
Butyl benzyl phthalate
Concen: 4.54 ug/ml
RT: 11.019 min Scan# 1612
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:149 Resp: 95754

Ion	Ratio	Lower	Upper
149	100		
91	68.4	63.3	94.9
206	16.9	13.9	20.9

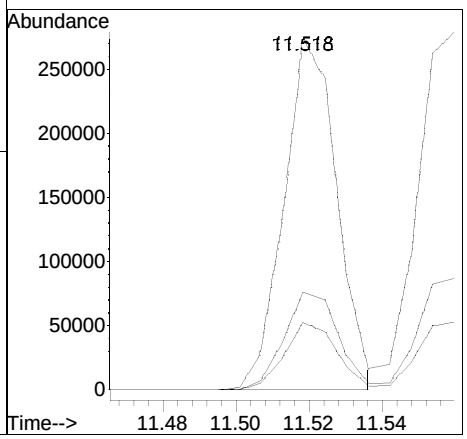


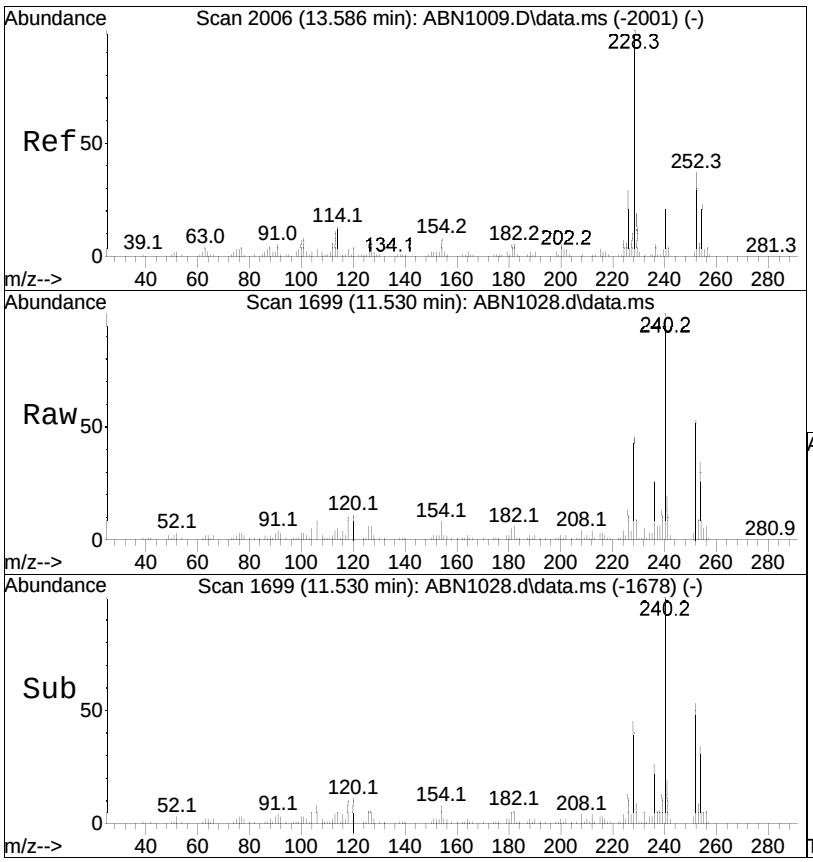


#104
Benzo(a)anthracene
Concen: 4.93 ug/ml
RT: 11.518 min Scan# 1697
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:228 Resp: 275632

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.2	33.4
229	19.2	15.6	23.4

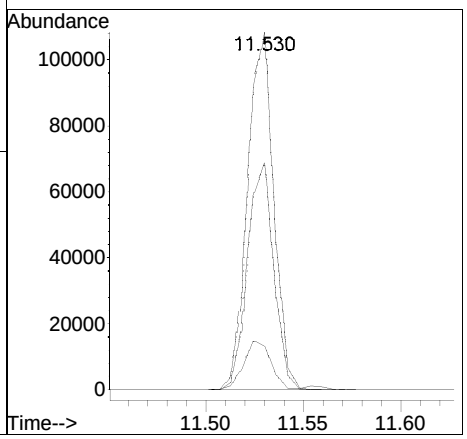


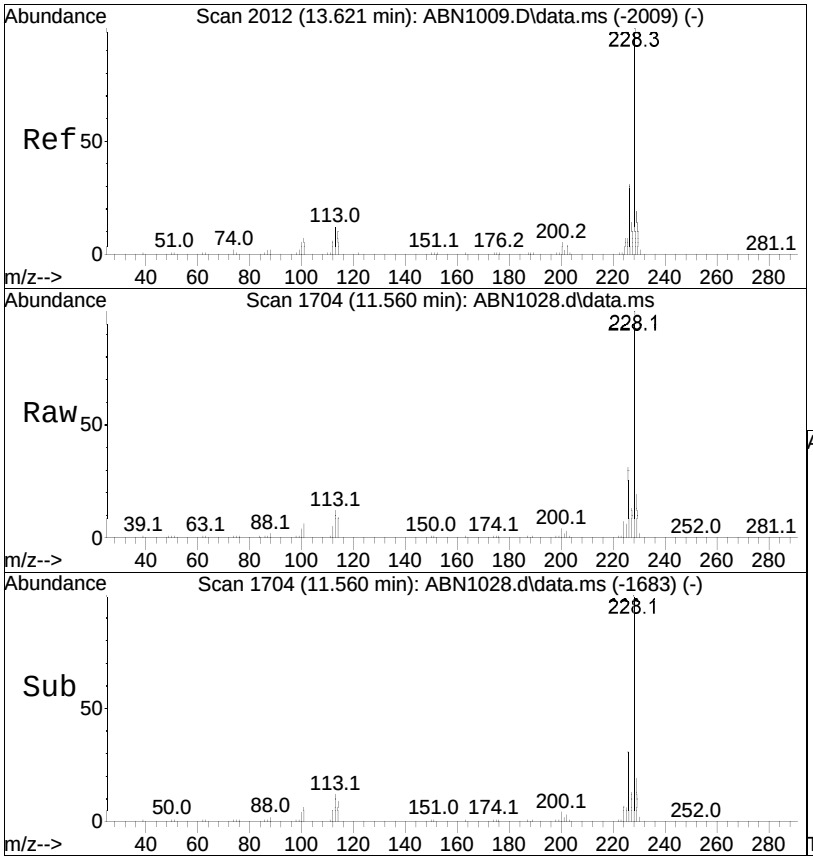


#105
3,3'-Dichlorobenzidine
Concen: 4.73 ug/ml
RT: 11.530 min Scan# 1699
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:252 Resp: 100255

Ion	Ratio	Lower	Upper
252	100		
126	14.6	14.5	21.7
254	63.6	51.2	76.8

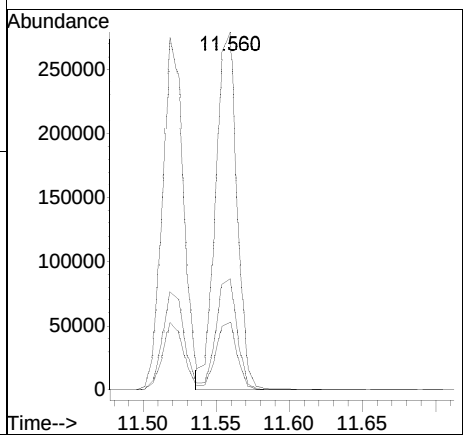


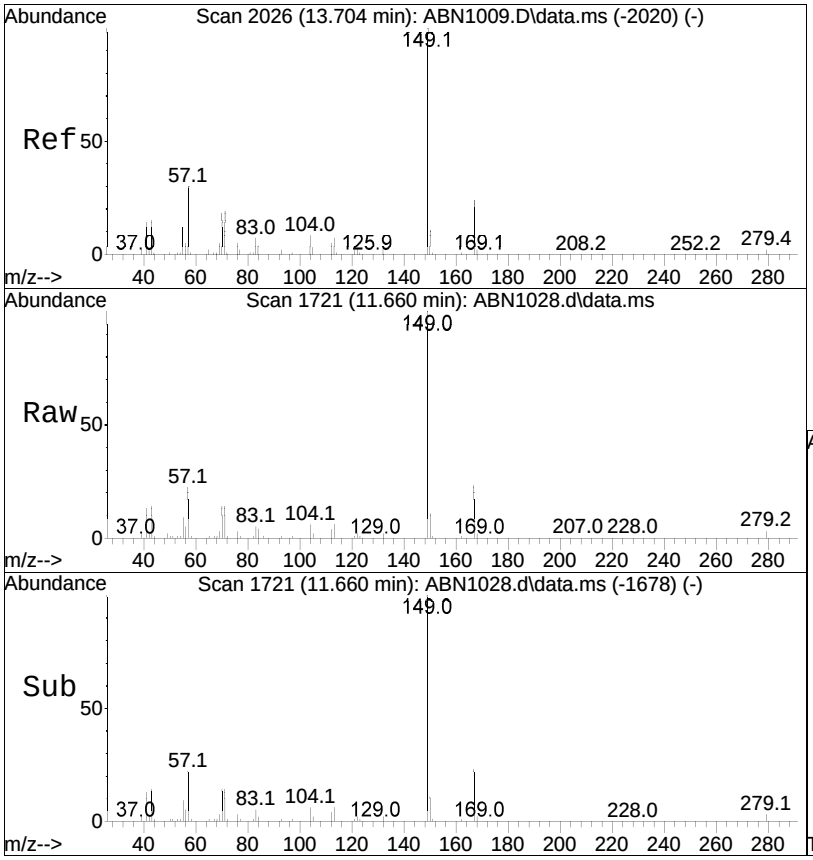


#106
Chrysene
Concen: 4.93 ug/ml
RT: 11.560 min Scan# 1704
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:228 Resp: 282463

Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.0	36.0
229	19.0	15.8	23.8

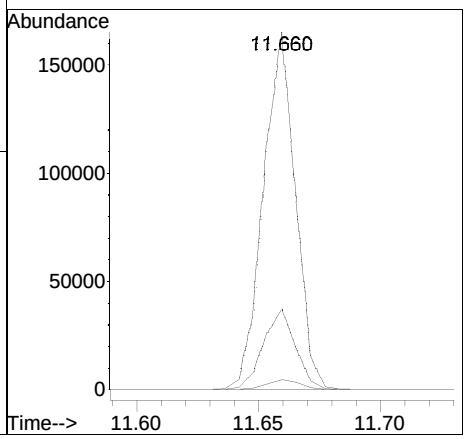


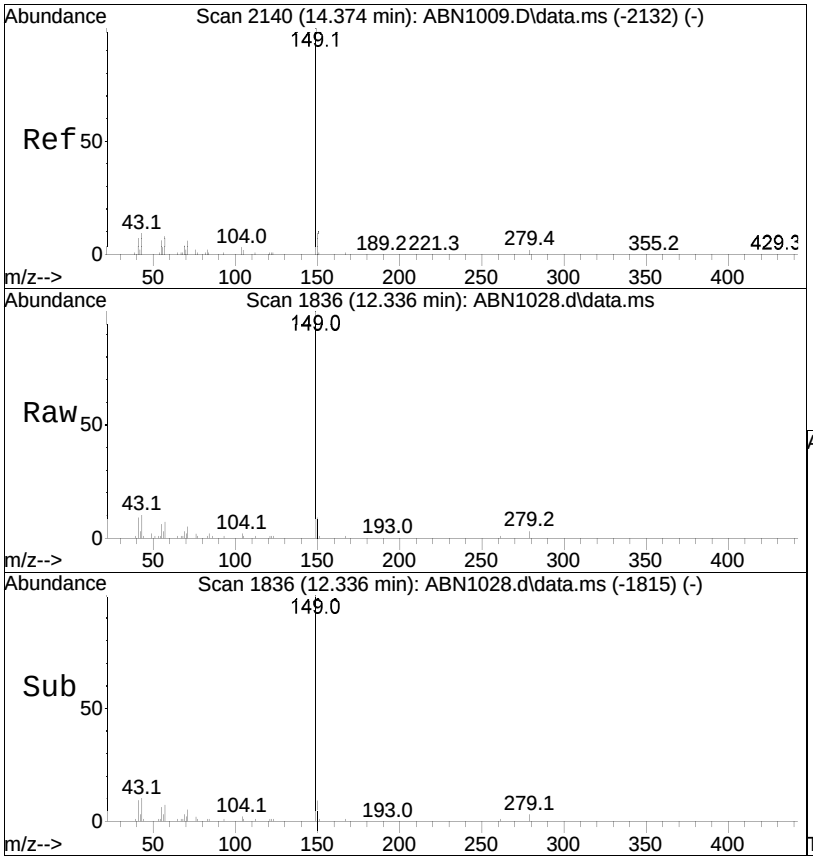


#107
Bis(2-ethylhexyl)phthalate
Concen: 4.04 ug/ml
RT: 11.660 min Scan# 1721
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:149 Resp: 149119

Ion	Ratio	Lower	Upper
149	100		
167	22.6	22.1	33.1
279	2.6	3.0	4.4#

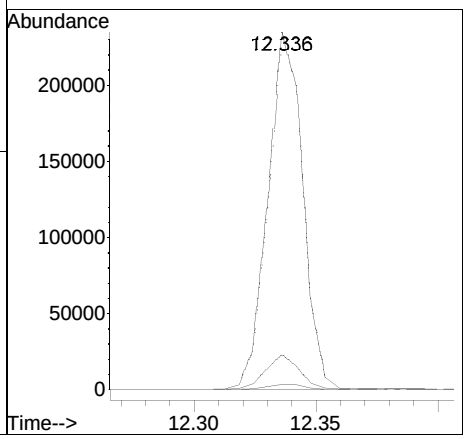


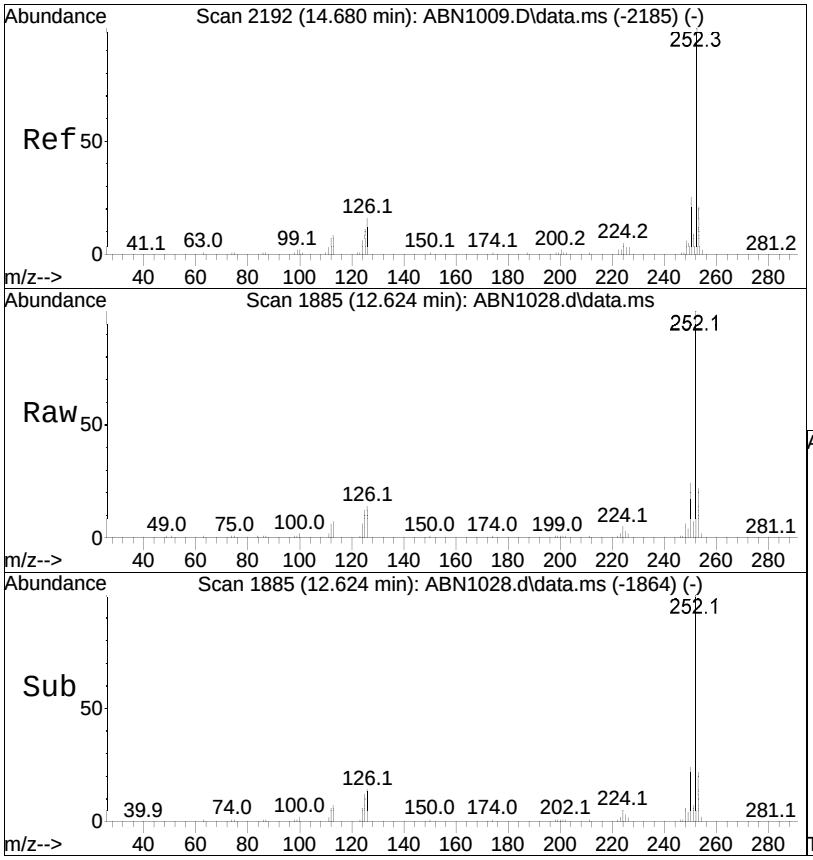


#108
Di-n-octylphthalate
Concen: 4.31 ug/ml
RT: 12.336 min Scan# 1836
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:149 Resp: 229461

Ion	Ratio	Lower	Upper
149	100		
43	9.5	18.8	28.2#
167	1.3	1.3	1.9

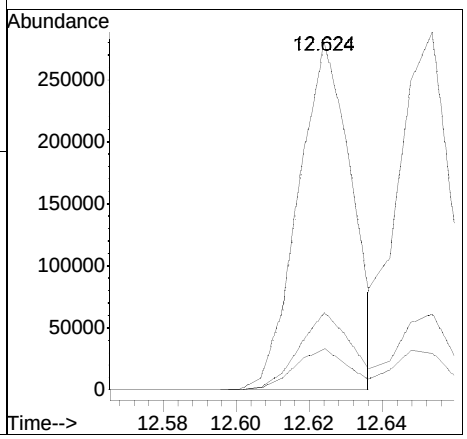


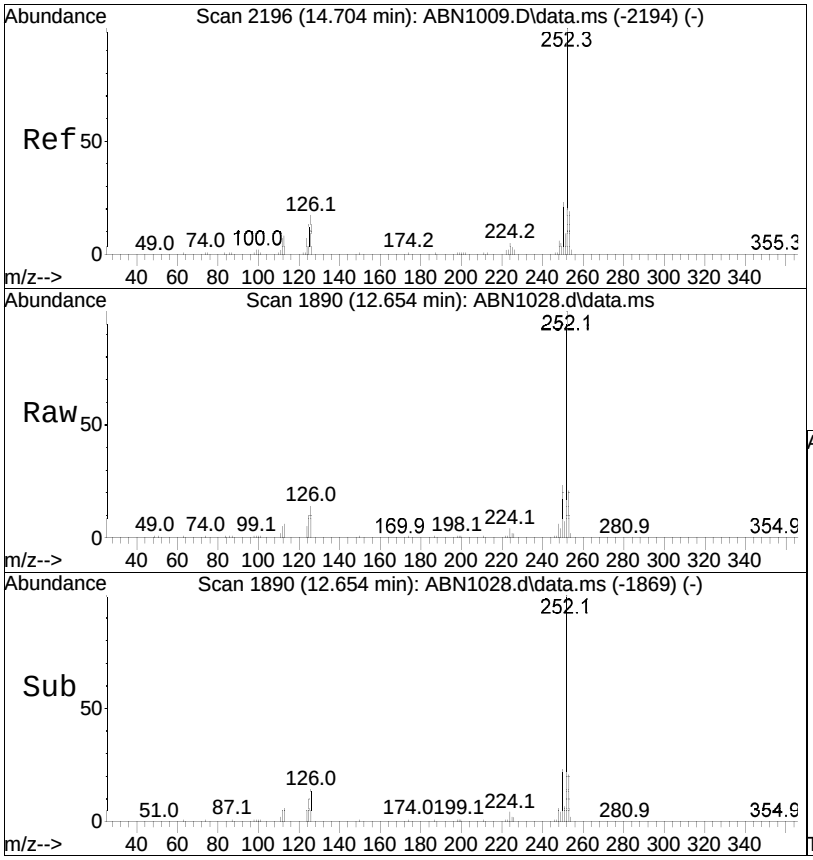


#109
Benzo(b)fluoranthene
Concen: 4.97 ug/ml
RT: 12.624 min Scan# 1885
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:252 Resp: 290494

Ion	Ratio	Lower	Upper
252	100		
125	12.0	13.3	19.9#
253	21.7	17.1	25.7

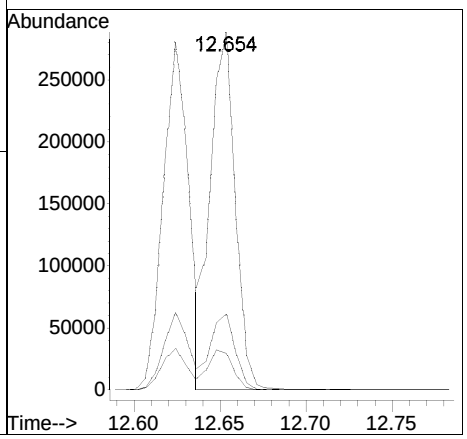


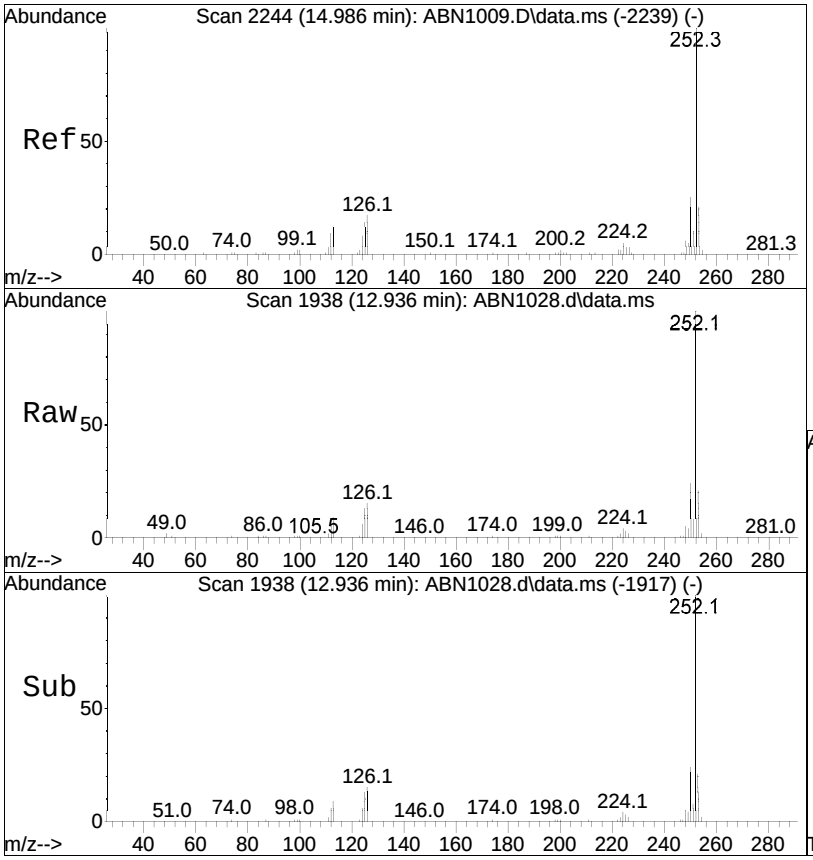


#110
Benzo(k)fluoranthene
Concen: 5.60 ug/ml
RT: 12.654 min Scan# 1890
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:252 Resp: 287556

Ion	Ratio	Lower	Upper
252	100		
125	11.3	13.0	19.6#
253	21.4	16.8	25.2

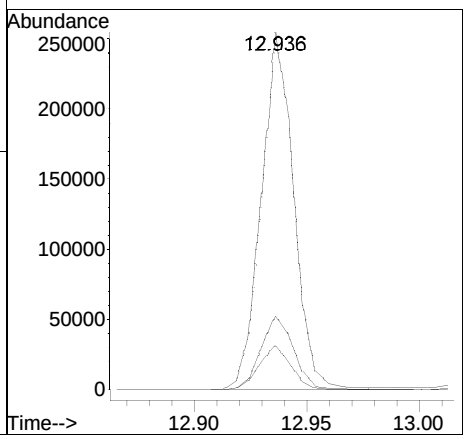


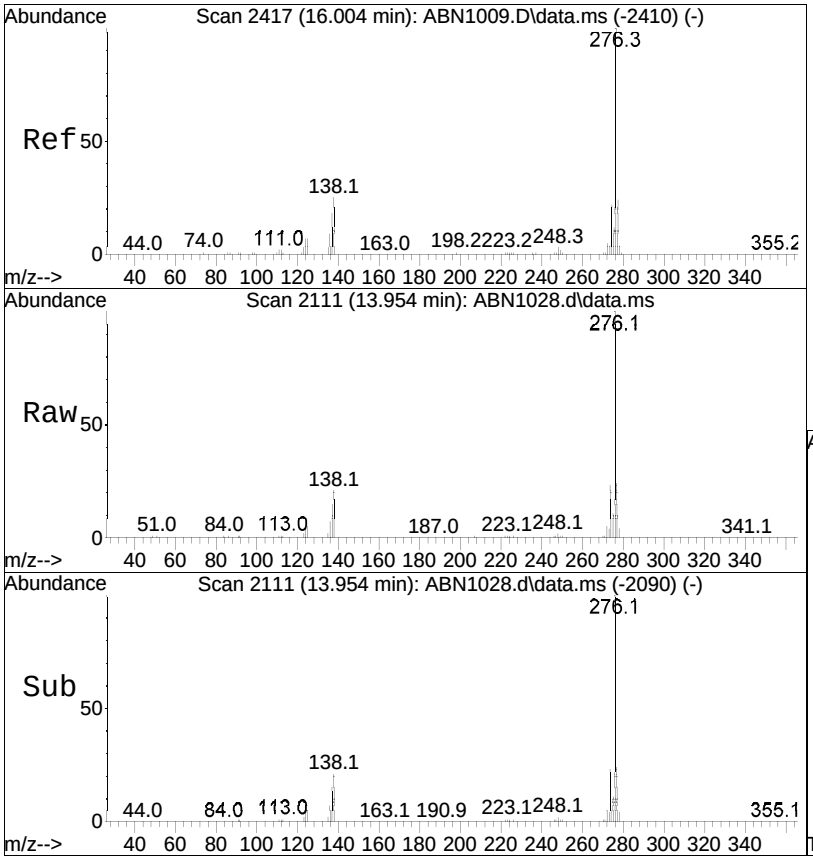


#111
Benzo(a)pyrene
Concen: 5.43 ug/ml
RT: 12.936 min Scan# 1938
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:252 Resp: 253121

Ion	Ratio	Lower	Upper
252	100		
125	12.6	14.2	21.2#
253	21.2	16.9	25.3

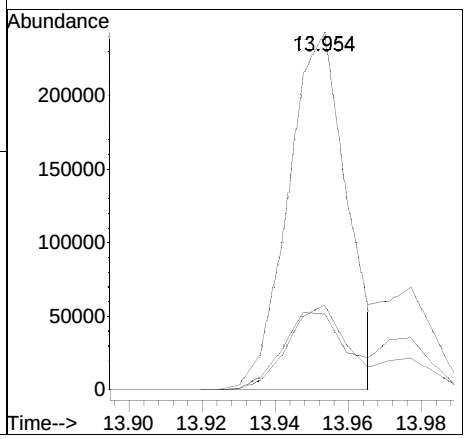


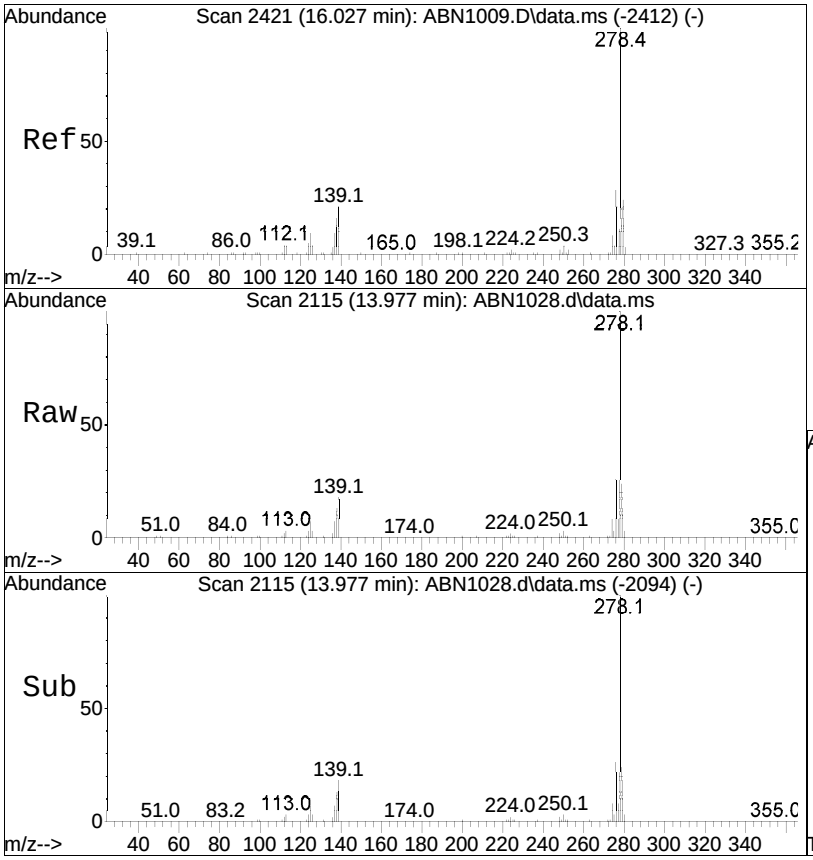


#113
Indeno(1,2,3-cd)pyrene
Concen: 5.04 ug/mL M6
RT: 13.954 min Scan# 2111
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:276 Resp: 271789

Ion	Ratio	Lower	Upper
276	100		
138	24.5	25.1	37.7#
277	31.7	18.6	28.0#

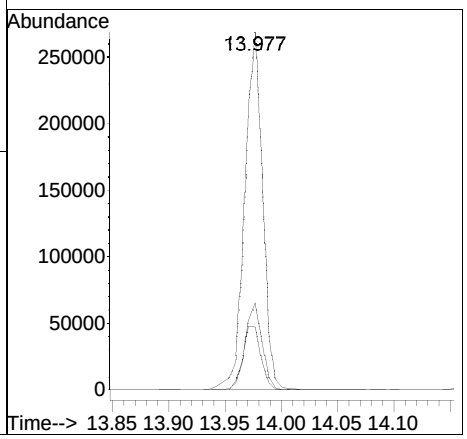


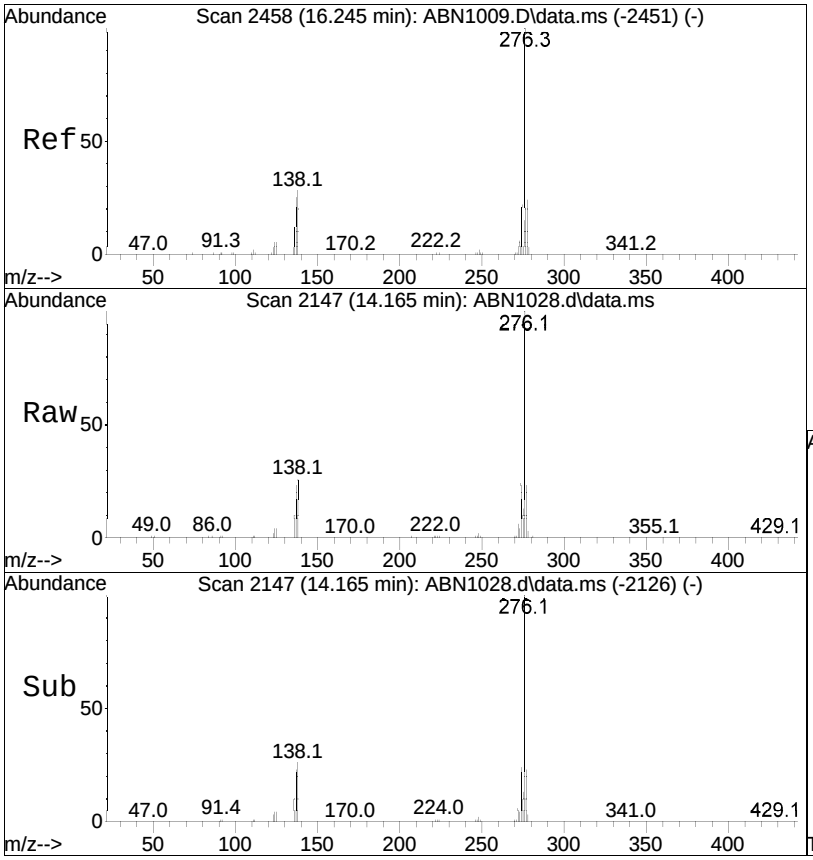


#114
Dibenzo(a,h)anthracene
Concen: 5.19 ug/ml
RT: 13.977 min Scan# 2115
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:278 Resp: 293201

Ion	Ratio	Lower	Upper
278	100		
139	18.2	20.8	31.2#
279	23.3	18.3	27.5

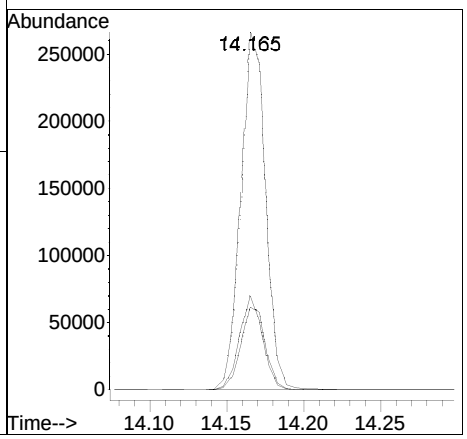




#115
Benzo(ghi)perylene
Concen: 5.26 ug/ml
RT: 14.165 min Scan# 2147
Delta R.T. 0.000 min
Lab File: ABN1028.d
Acq: 28 Oct 2020 10:14 pm

Tgt Ion:276 Resp: 293937

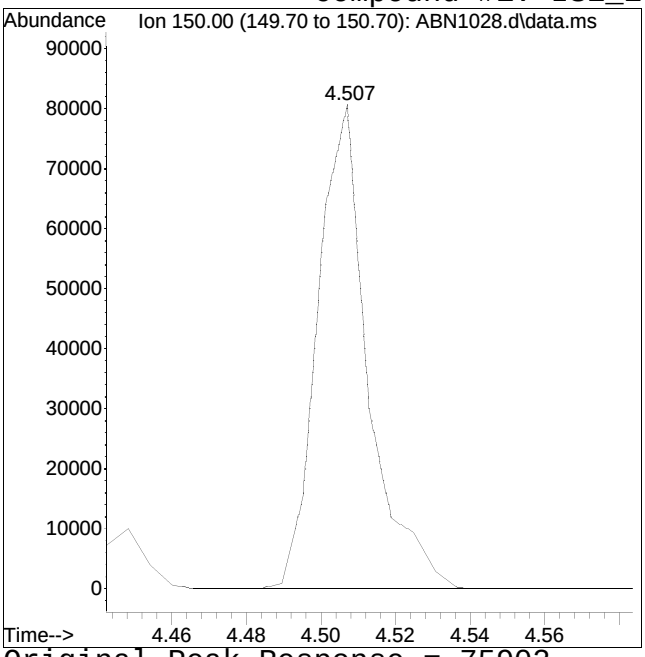
Ion	Ratio	Lower	Upper
276	100		
138	24.9	29.2	43.8#
277	23.5	18.8	28.2



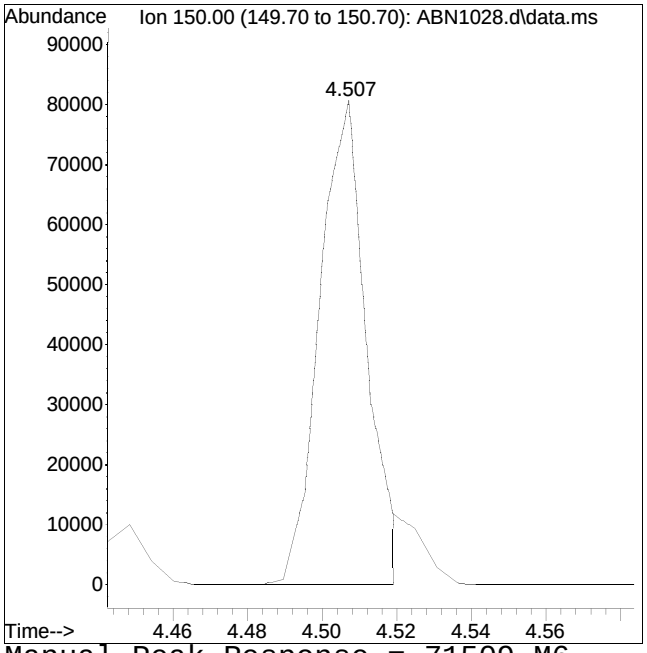
Manual Integration Report

Data Path : I:\8270\SV124\201028lvi\ QMethod : FS201012SV124.m
Data File : ABN1028.d Operator : SV124:jg
Date Inj'd : 10/28/2020 10:14 pm Instrument : SV 124
Sample : WG1426005-3,32,,ABN LVI LoQuant Date : 10/28/2020 10:51 pm

Compound #1: IS1_1,4-Dichlorobenzene-d4



Original Peak Response = 75902



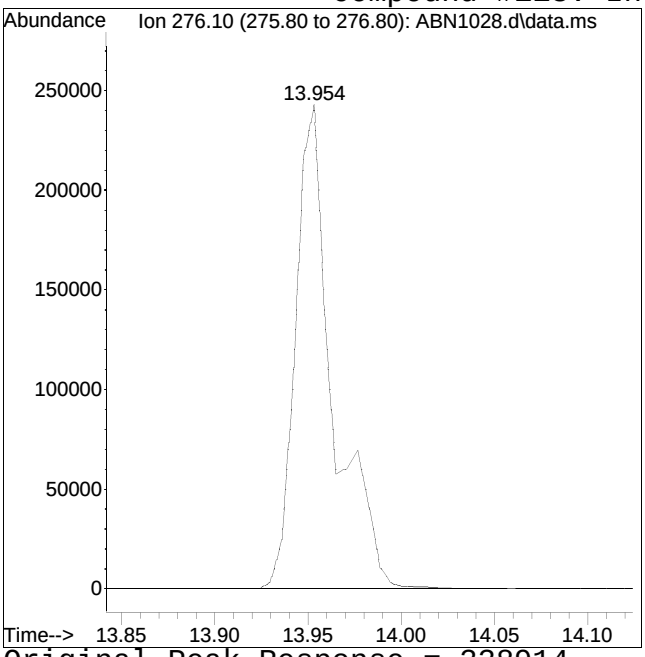
Manual Peak Response = 71509 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

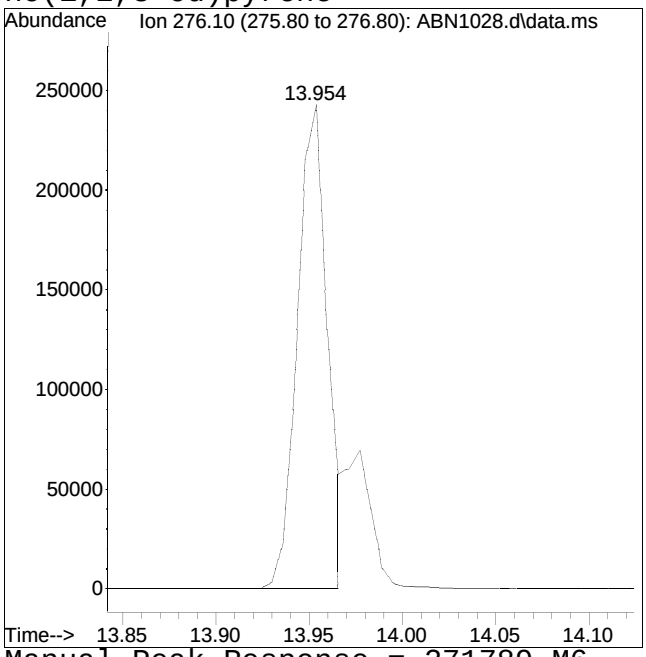
Manual Integration Report

Data Path : I:\8270\SV124\201028lvi\ QMethod : FS201012SV124.m
Data File : ABN1028.d Operator : SV124:jg
Date Inj'd : 10/28/2020 10:14 pm Instrument : SV 124
Sample : WG1426005-3,32,,ABN LVI LoQuant Date : 10/28/2020 10:51 pm

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 338914



Manual Peak Response = 271789 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV124\201028lvi\
Data File : AP91028.d
Acq On : 28 Oct 2020 10:37 pm
Operator : SV124:jg
Sample : WG1426005-4,32,,AP9 LVI Lot # 8837
Misc : WG1426005,,ical17255
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Oct 28 22:57:54 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 28 22:57:21 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	130	0.00
28	T	Benzaldehyde		0.616	0.622	-1.0	134	0.00
29	T	Acetophenone		1.062	1.048	1.3	134	0.00
30	T	m-Toluidine		1.121	1.116	0.4	132	0.00
31	T	2-Chloroaniline		1.027	1.056	-2.8	135	0.00
54	I	IS2_Naphthalene-d8		1.000	1.000	0.0	131	0.00
55	T	a-Terpineol		0.232	0.230	0.9	134	0.00
56	T	3-Chloroaniline		0.133	0.129	3.0	132	0.00
57	T	2,6-Dichlorophenol		0.264	0.276	-4.5	142	0.00
58	T	1-chloro-2-nitrobenzene		0.130	0.128	1.5	133	0.00
59	T	Caprolactam	*	5.000	5.303	-6.1	154	0.00
60	T	1,2,4,5-Tetrachlorobenzene		0.337	0.322	4.5	124	0.00
61	T	Biphenyl		0.865	0.849	1.8	128	0.00
82	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	129	0.00
83	T	Dichloran	*	5.000	4.879	2.4	140	0.00
84	T	Pentachloronitrobenzene	*	5.000	4.925	1.5	133	0.00
97	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	135	0.00
98	T	Diphenamid	*	5.000	4.883	2.3	140	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201028lvi\
Data File : AP91028.d
Acq On : 28 Oct 2020 10:37 pm
Operator : SV124:jg
Sample : WG1426005-4,32,,AP9 LVI Lot # 8837
Misc : WG1426005,,ical17255
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Oct 28 22:57:54 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 28 22:57:21 2020
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.507	150	63930	4.000	ug/ml	0.00
54) IS2_Naphthalene-d8	5.748	136	162378	4.000	ug/ml	0.00
82) IS2_Acenaphthene-d10	7.460	164	87701	4.000	ug/ml	0.00
97) IS2_Phenanthrene-d10	8.895	188	188497	4.000	ug/ml	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.066	105	49710	5.049	ug/ml	96
29) Acetophenone	4.913	105	83718	4.934	ug/ml#	81
30) m-Toluidine	4.995	106	89184	4.979	ug/ml	93
31) 2-Chloroaniline	5.360	127	84382	5.140	ug/ml#	90
55) a-Terpineol	5.813	59	46773	4.976	ug/ml#	73
56) 3-Chloroaniline	5.825	65	26123	4.832	ug/ml	90
57) 2,6-Dichlorophenol	5.854	162	55950	5.222	ug/ml#	86
58) 1-chloro-2-nitrobenzene	6.107	111	26023	4.949	ug/ml#	1
59) Caprolactam	6.148	55	23590	5.303	ug/ml#	59
60) 1,2,4,5-Tetrachloroben...	6.625	216	65436	4.787	ug/ml	97
61) Biphenyl	6.919	154	172254	4.907	ug/ml	100
83) Dichloran	8.601	206	14833	4.879	ug/ml#	76
84) Pentachloronitrobenzene	8.748	237	18510	4.925	ug/ml#	88
98) Diphenamid	9.819	167	96911	4.883	ug/ml	82

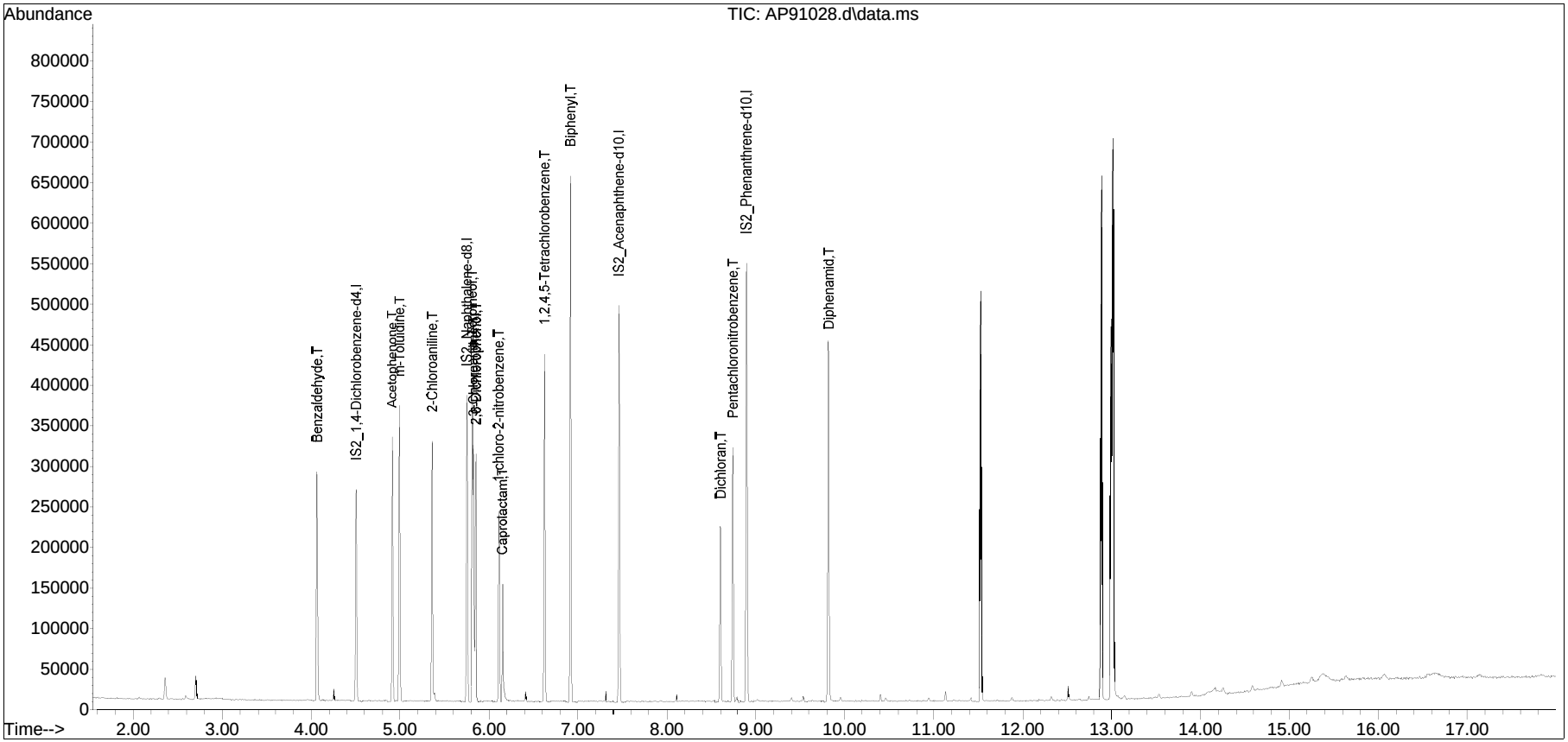
(#) = qualifier out of range (m) = manual integration (+) = signals summed

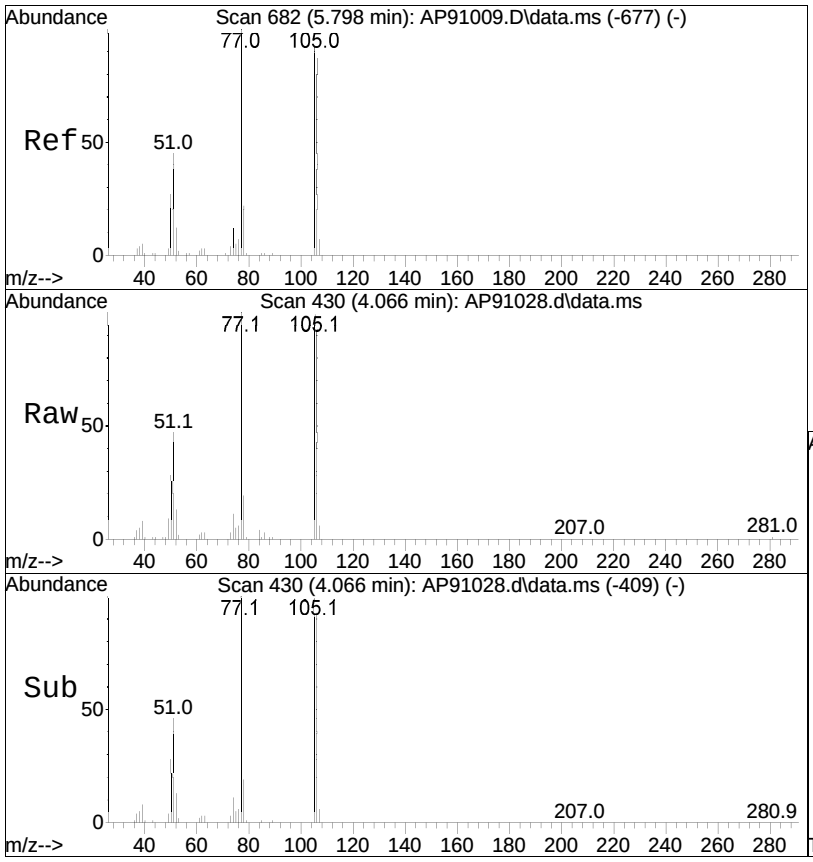
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201028lvi\
Data File : AP91028.d
Acq On : 28 Oct 2020 10:37 pm
Operator : SV124:jg
Sample : WG1426005-4,32,,AP9 LVI Lot # 8837
Misc : WG1426005,,ical17255
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Oct 28 22:57:54 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 28 22:57:21 2020
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

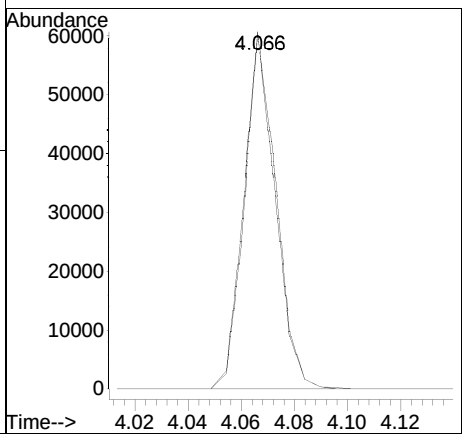


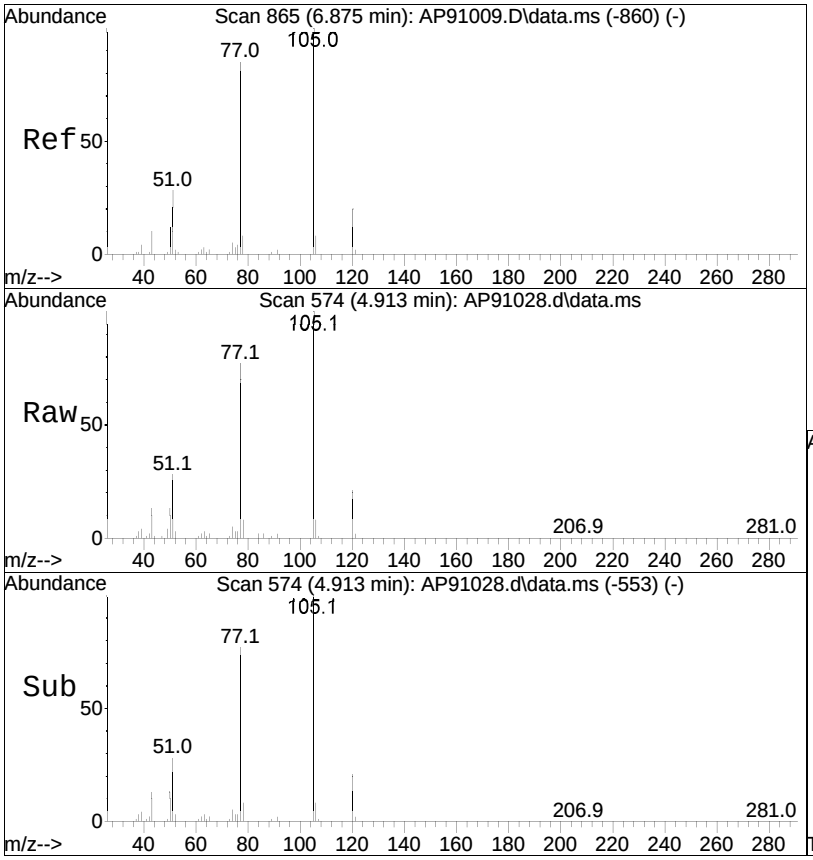


#28
Benzaldehyde
Concen: 5.05 ug/ml
RT: 4.066 min Scan# 430
Delta R.T. 0.000 min
Lab File: AP91028.d
Acq: 28 Oct 2020 10:37 pm

Tgt Ion:105 Resp: 49710

Ion	Ratio	Lower	Upper
105	100		
77	99.2	82.2	123.4

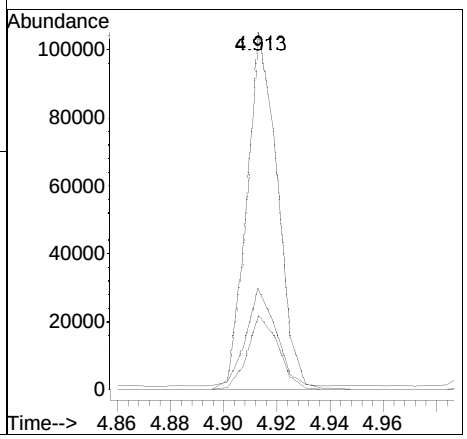


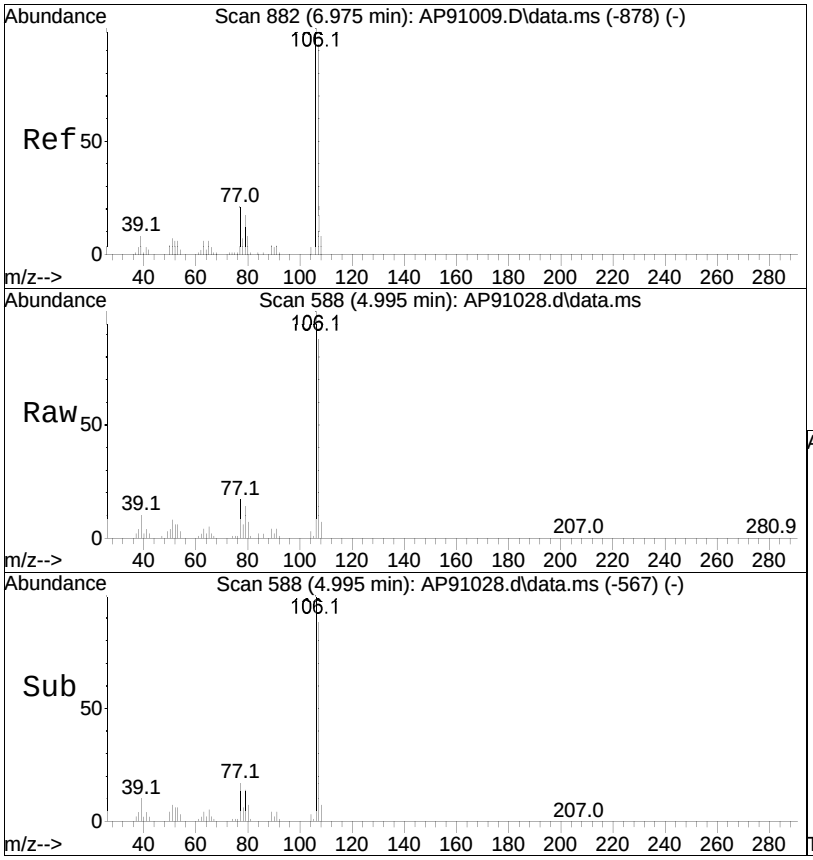


#29
Acetophenone
Concen: 4.93 ug/ml
RT: 4.913 min Scan# 574
Delta R.T. 0.000 min
Lab File: AP91028.d
Acq: 28 Oct 2020 10:37 pm

Tgt Ion:105 Resp: 83718

Ion	Ratio	Lower	Upper
105	100		
120	20.9	20.5	30.7
51	27.2	34.9	52.3#

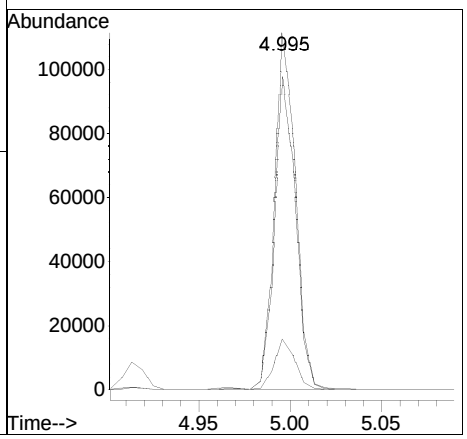


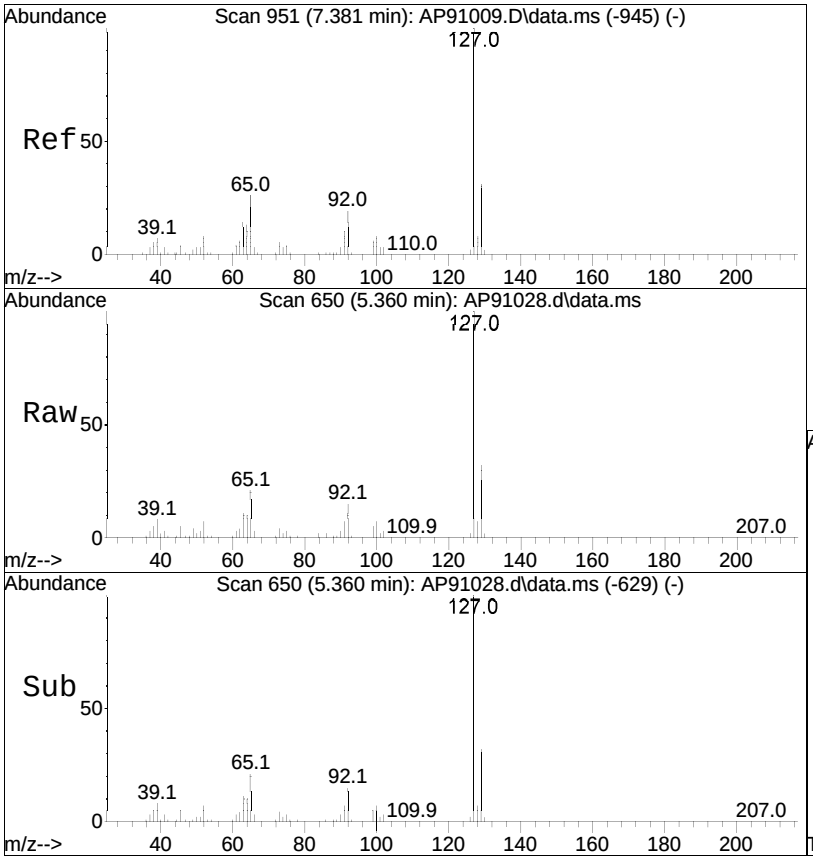


#30
m-Toluidine
Concen: 4.98 ug/ml
RT: 4.995 min Scan# 588
Delta R.T. 0.000 min
Lab File: AP91028.d
Acq: 28 Oct 2020 10:37 pm

Tgt Ion:106 Resp: 89184

Ion	Ratio	Lower	Upper
106	100		
107	87.1	75.7	113.5
79	13.9	11.8	17.8

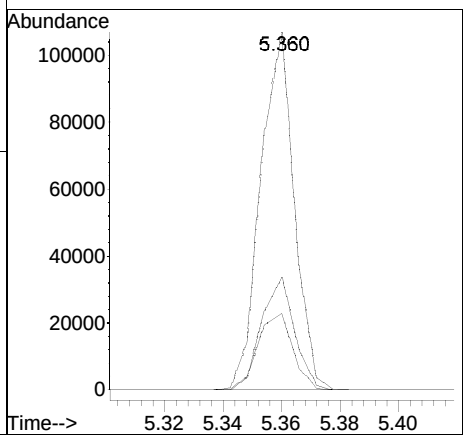


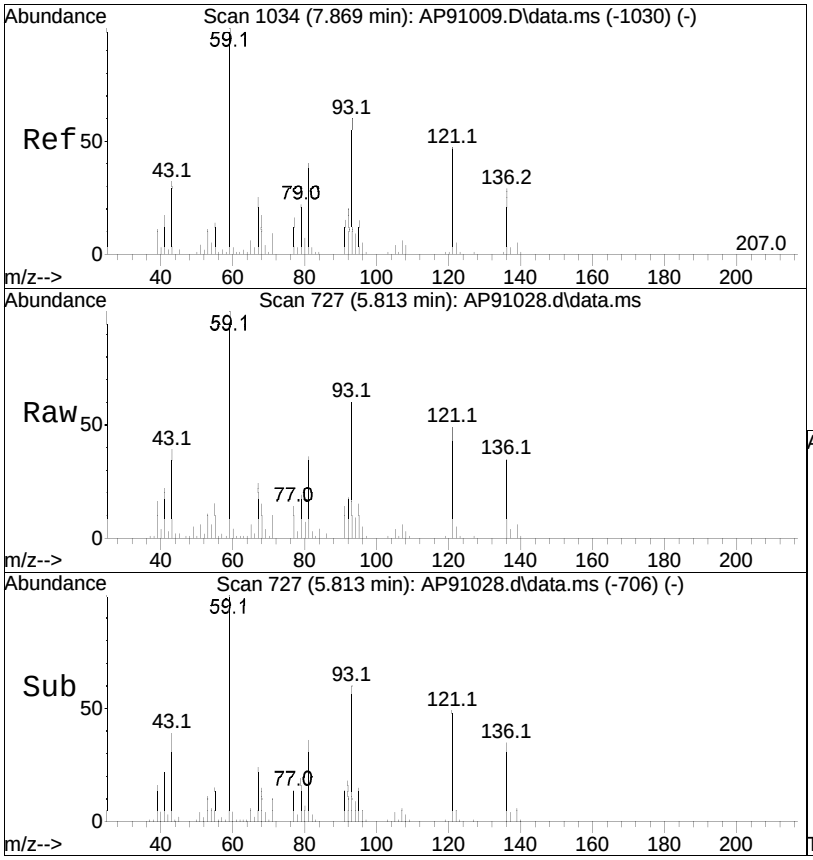


#31
2-Chloroaniline
Concen: 5.14 ug/ml
RT: 5.360 min Scan# 650
Delta R.T. 0.000 min
Lab File: AP91028.d
Acq: 28 Oct 2020 10:37 pm

Tgt Ion:127 Resp: 84382

Ion	Ratio	Lower	Upper
127	100		
129	31.2	25.9	38.9
65	22.5	26.3	39.5#

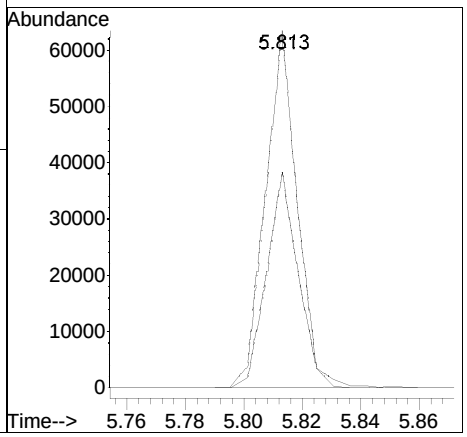


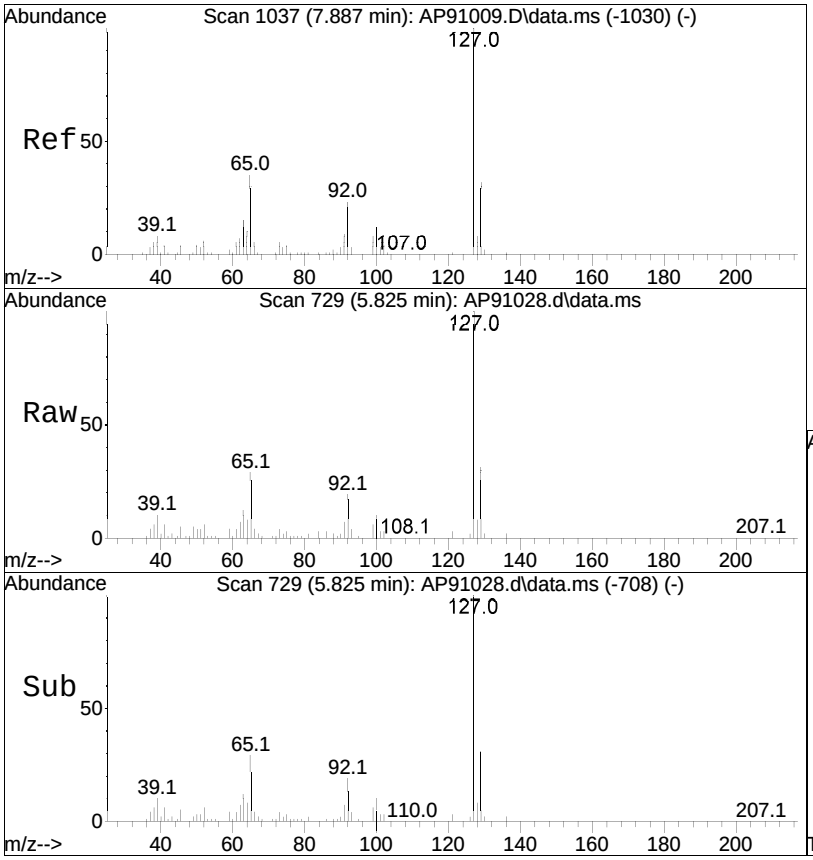


#55
a-Terpineol
Concen: 4.98 ug/ml
RT: 5.813 min Scan# 727
Delta R.T. 0.000 min
Lab File: AP91028.d
Acq: 28 Oct 2020 10:37 pm

Tgt Ion: 59 Resp: 46773

Ion	Ratio	Lower	Upper
59	100		
93	62.2	35.6	53.4#

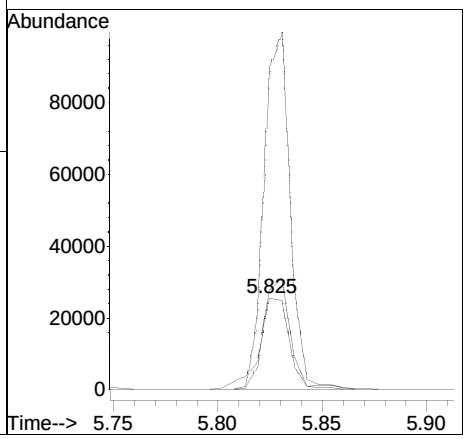


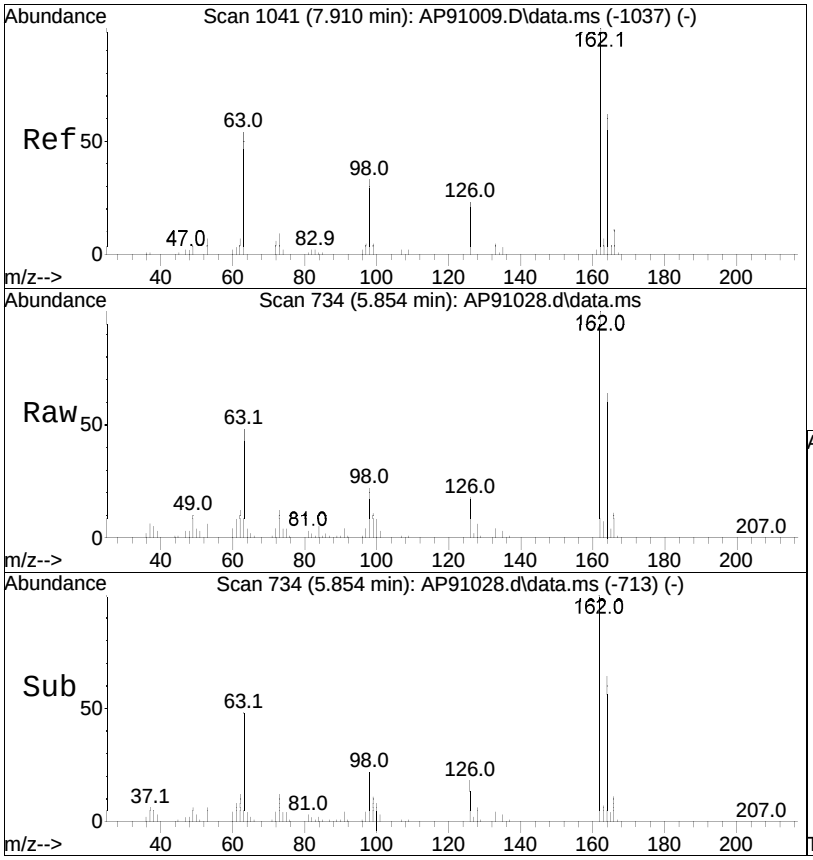


#56
3-Chloroaniline
Concen: 4.83 ug/ml
RT: 5.825 min Scan# 729
Delta R.T. 0.000 min
Lab File: AP91028.d
Acq: 28 Oct 2020 10:37 pm

Tgt Ion: 65 Resp: 26123

Ion	Ratio	Lower	Upper
65	100		
127	327.6	243.2	364.8
129	103.1	78.8	118.2

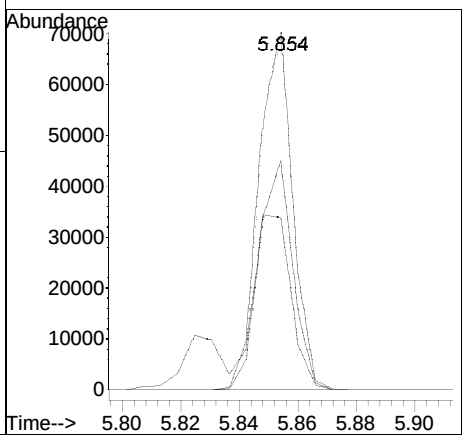


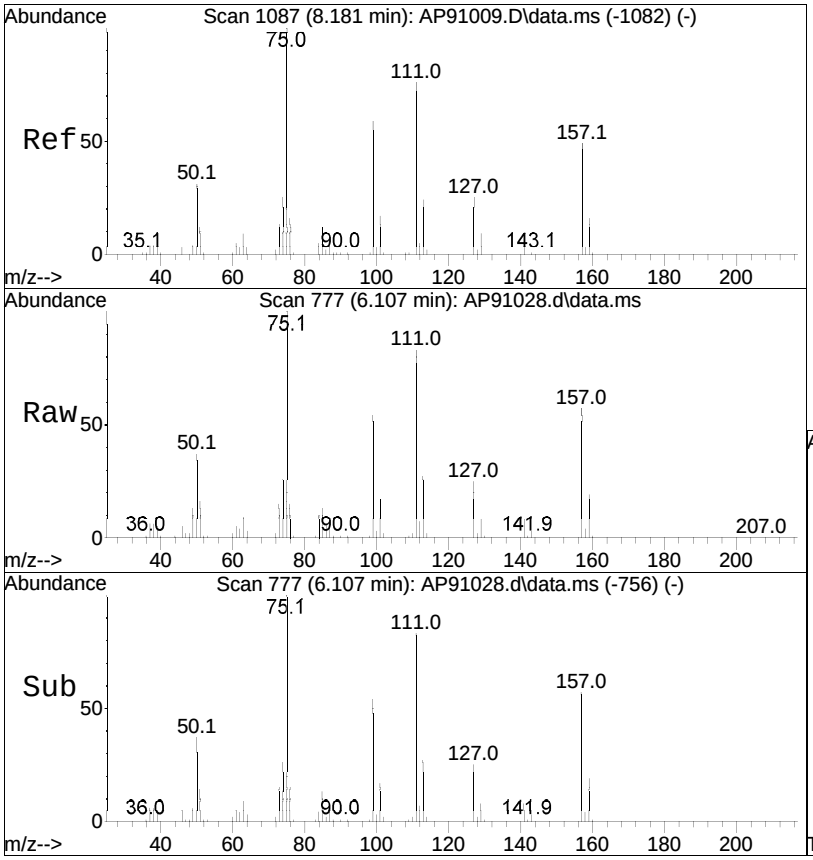


#57
2,6-Dichlorophenol
Concen: 5.22 ug/ml
RT: 5.854 min Scan# 734
Delta R.T. 0.000 min
Lab File: AP91028.d
Acq: 28 Oct 2020 10:37 pm

Tgt Ion:162 Resp: 55950

Ion	Ratio	Lower	Upper
162	100		
164	64.0	51.1	76.7
63	54.3	60.8	91.2#

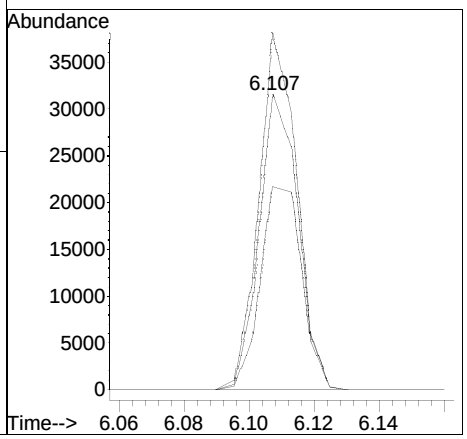


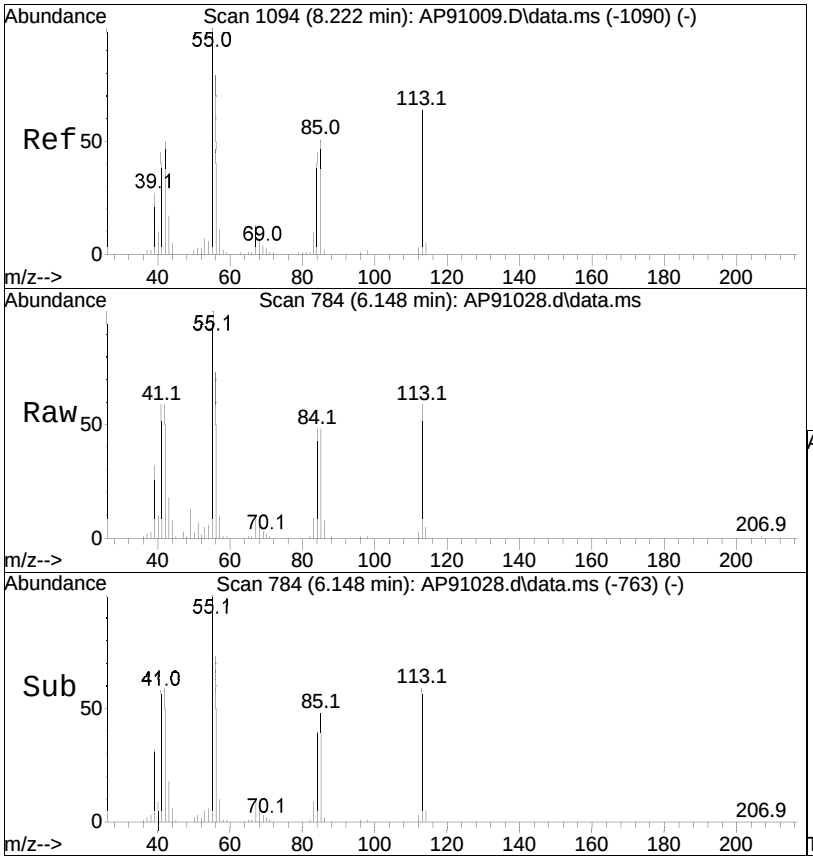


#58
1-chloro-2-nitrobenzene
Concen: 4.95 ug/ml
RT: 6.107 min Scan# 777
Delta R.T. 0.000 min
Lab File: AP91028.d
Acq: 28 Oct 2020 10:37 pm

Tgt Ion:111 Resp: 26023

Ion	Ratio	Lower	Upper
111	100		
157	73.8	0.0	0.0#
75	117.7	28.2	42.2#

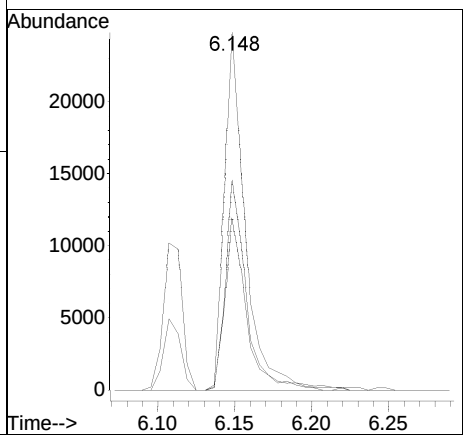


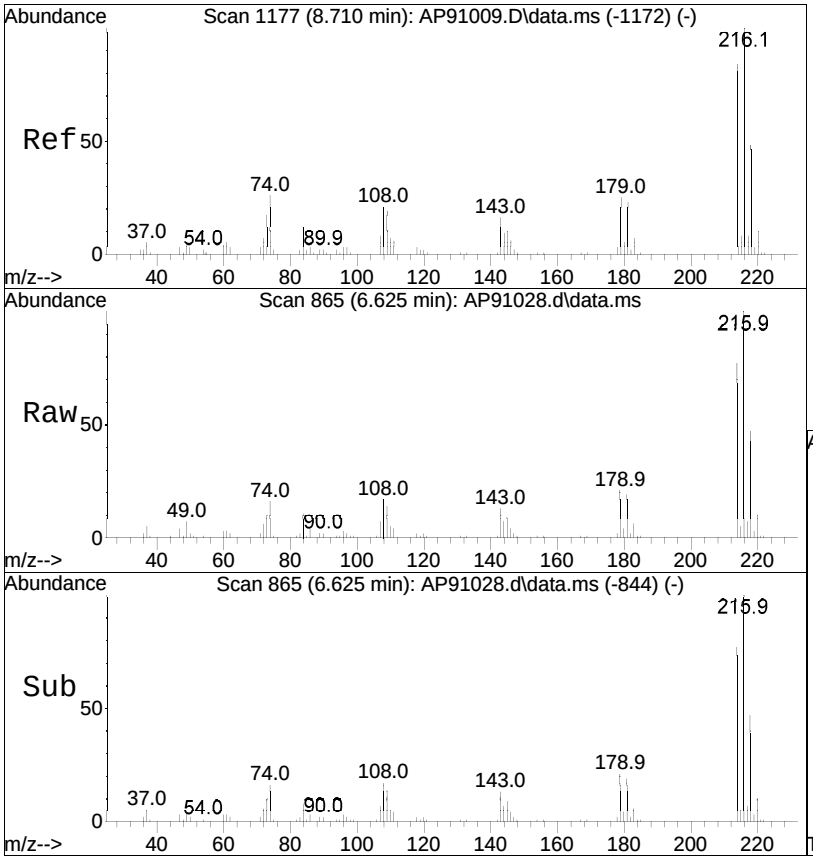


#59
Caprolactam
Concen: 5.30 ug/ml
RT: 6.148 min Scan# 784
Delta R.T. 0.000 min
Lab File: AP91028.d
Acq: 28 Oct 2020 10:37 pm

Tgt Ion: 55 Resp: 23590

Ion	Ratio	Lower	Upper
55	100		
85	50.1	19.8	29.6#
113	57.2	29.6	44.4#

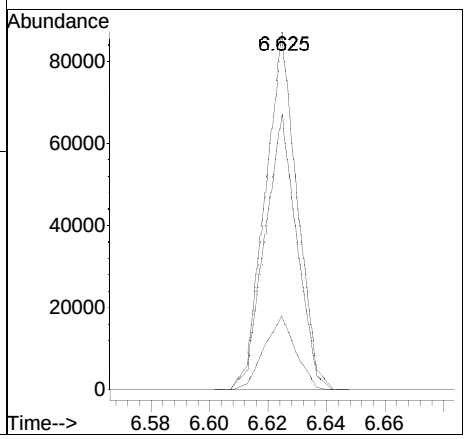


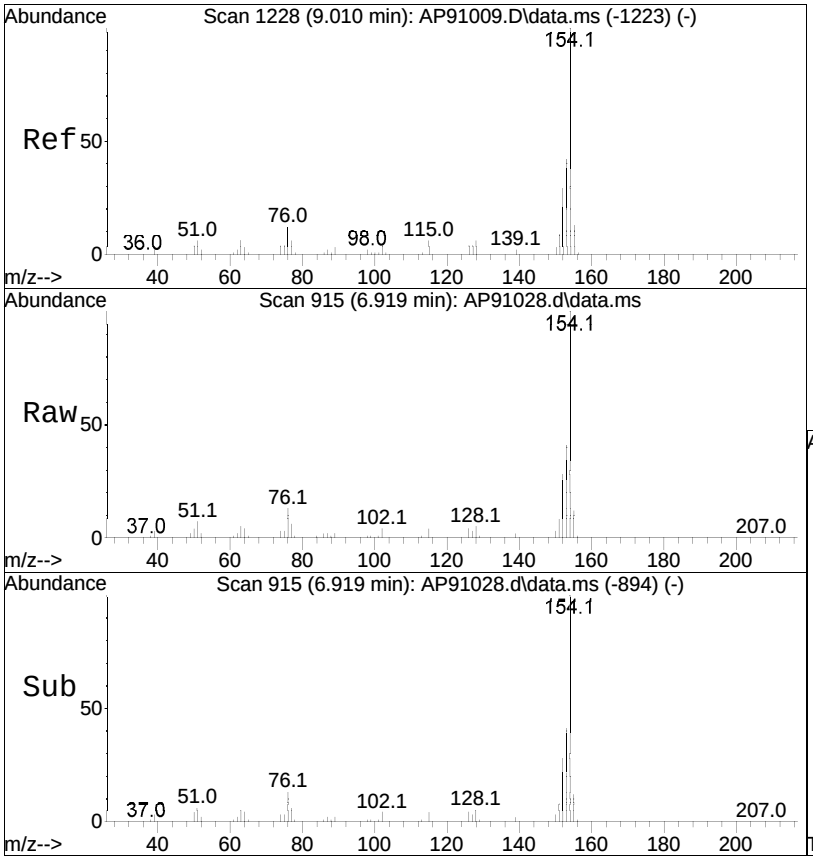


#60
1,2,4,5-Tetrachlorobenzene
Concen: 4.79 ug/ml
RT: 6.625 min Scan# 865
Delta R.T. 0.000 min
Lab File: AP91028.d
Acq: 28 Oct 2020 10:37 pm

Tgt Ion:216 Resp: 65436

Ion	Ratio	Lower	Upper
216	100		
214	77.5	63.7	95.5
179	20.6	19.0	28.6

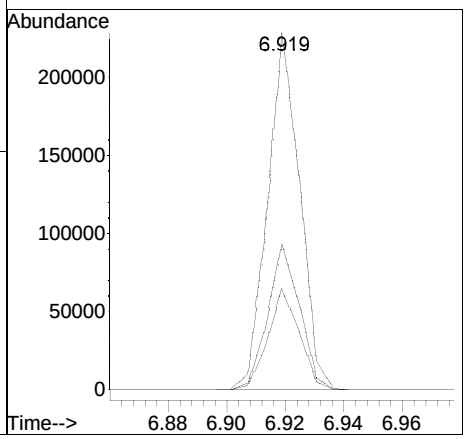


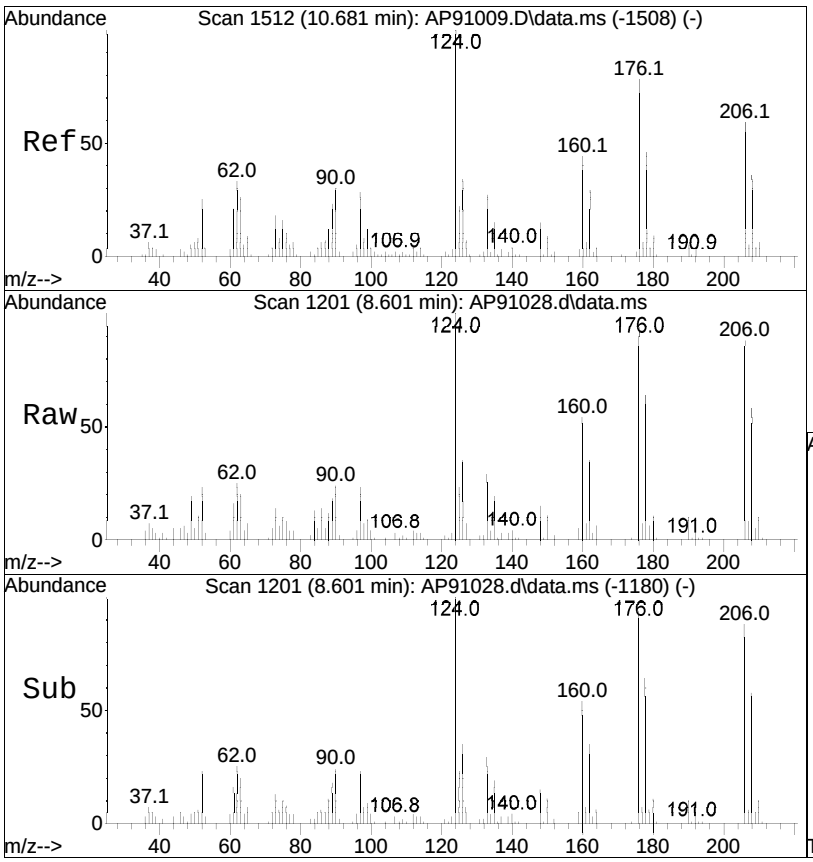


#61
Biphenyl
Concen: 4.91 ug/ml
RT: 6.919 min Scan# 915
Delta R.T. 0.000 min
Lab File: AP91028.d
Acq: 28 Oct 2020 10:37 pm

Tgt Ion:154 Resp: 172254

Ion	Ratio	Lower	Upper
154	100		
153	40.8	32.3	48.5
152	28.1	22.5	33.7

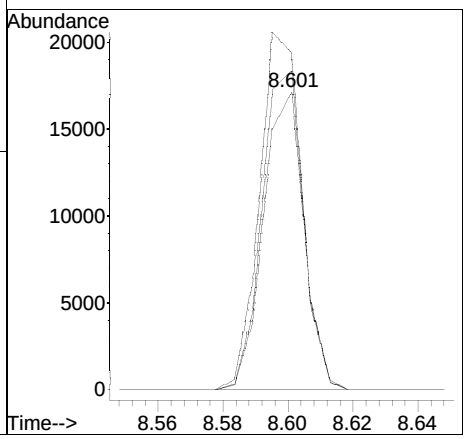


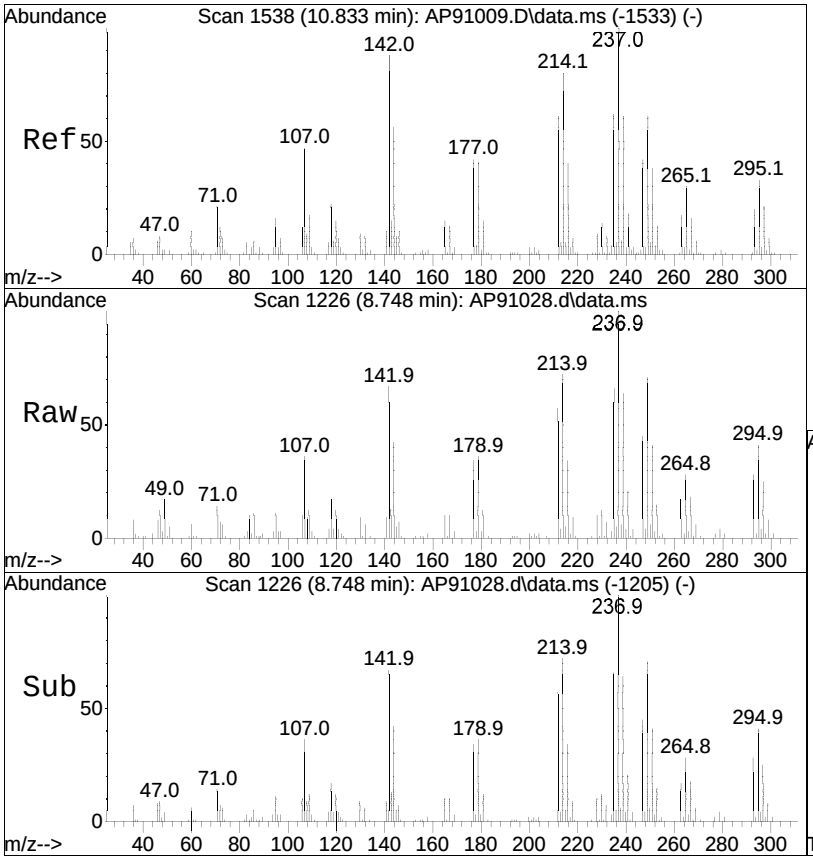


#83
Dichloran
Concen: 4.88 ug/ml
RT: 8.601 min Scan# 1201
Delta R.T. 0.000 min
Lab File: AP91028.d
Acq: 28 Oct 2020 10:37 pm

Tgt Ion:206 Resp: 14833

Ion	Ratio	Lower	Upper
206	100		
176	109.5	104.6	157.0
124	123.9	130.5	195.7#

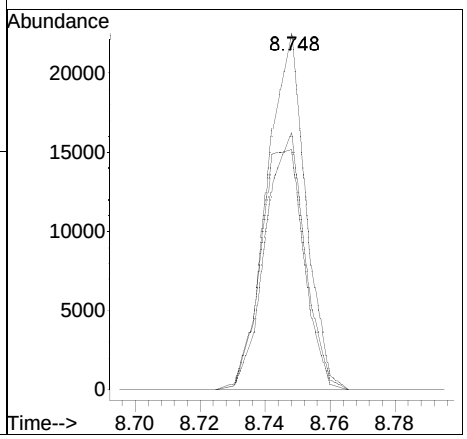


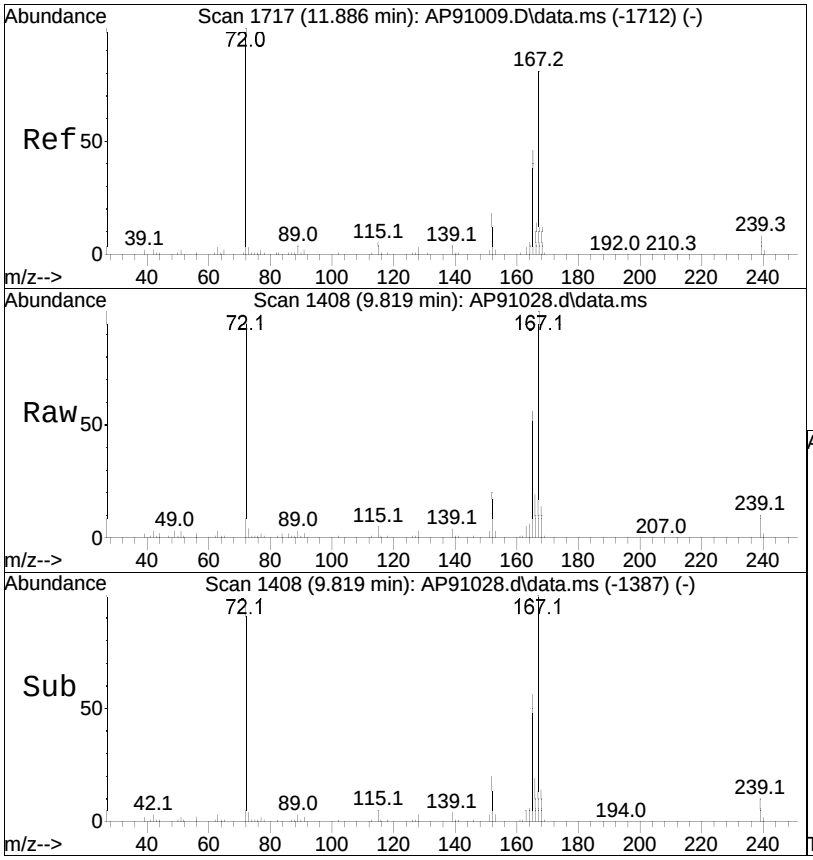


#84
Pentachloronitrobenzene
Concen: 4.93 ug/ml
RT: 8.748 min Scan# 1226
Delta R.T. 0.000 min
Lab File: AP91028.d
Acq: 28 Oct 2020 10:37 pm

Tgt Ion:237 Resp: 18510

Ion	Ratio	Lower	Upper
237	100		
142	76.2	77.0	115.4#
214	74.4	58.2	87.4

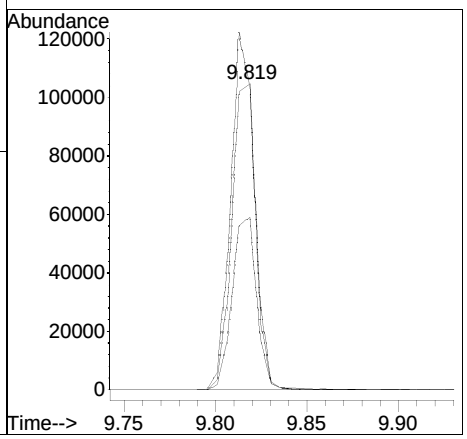




#98
Diphenamid
Concen: 4.88 ug/ml
RT: 9.819 min Scan# 1408
Delta R.T. 0.000 min
Lab File: AP91028.d
Acq: 28 Oct 2020 10:37 pm

Tgt Ion:167 Resp: 96911

Ion	Ratio	Lower	Upper
167	100		
72	110.7	109.7	164.5
165	57.2	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\SV124\201028lvi\	QMethod	: FS201012SV124.m
Data File	: AP91028.d	Operator	: SV124:jg
Date Inj'd	: 10/28/2020 10:37 pm	Instrument	: SV 124
Sample	: WG1426005-4,32,,AP9 LVI Lo	Quant Date	: 10/28/2020 10:57 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV124\201028lvi\
Data File : ADP1028.d
Acq On : 28 Oct 2020 11:01 pm
Operator : SV124:jg
Sample : WG1426005-5,32,,ADP LVI Lot # 8938
Misc : WG1426005,,ical17255
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Oct 28 23:30:59 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 28 23:30:27 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	118	0.00
33	T	n-Decane		0.769	0.762	0.9	119	0.00
85	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	109	0.00
86	T	Atrazine	*	5.000	4.648	7.0	103	0.00
99	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	101	0.00
100	T	n-Octadecane		0.376	0.350	6.9	97	0.00
101	T	Parathion	*	5.000	4.378	12.4	98	0.00
102	T	3,3'-Dimethylbenzidine	*	5.000	4.430	11.4	100	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201028lvi\
Data File : ADP1028.d
Acq On : 28 Oct 2020 11:01 pm
Operator : SV124:jg
Sample : WG1426005-5,32,,ADP LVI Lot # 8938
Misc : WG1426005,,ical17255
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Oct 28 23:30:59 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 28 23:30:27 2020
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.507	150	59319	4.000	ug/ml	0.00
85) IS3_Acenaphthene-d10	7.460	164	75844	4.000	ug/ml	0.00
99) IS3_Phenanthrene-d10	8.895	188	154615	4.000	ug/ml	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.396	57	56476	4.955	ug/ml#	37
86) Atrazine	8.683	200	25615	4.648	ug/ml	97
100) n-Octadecane	8.889	57	67580	4.647	ug/ml#	1
101) Parathion	9.695	109	11125	4.378	ug/ml	96
102) 3,3'-Dimethylbenzidine	10.972	212	84735	4.430	ug/ml	98

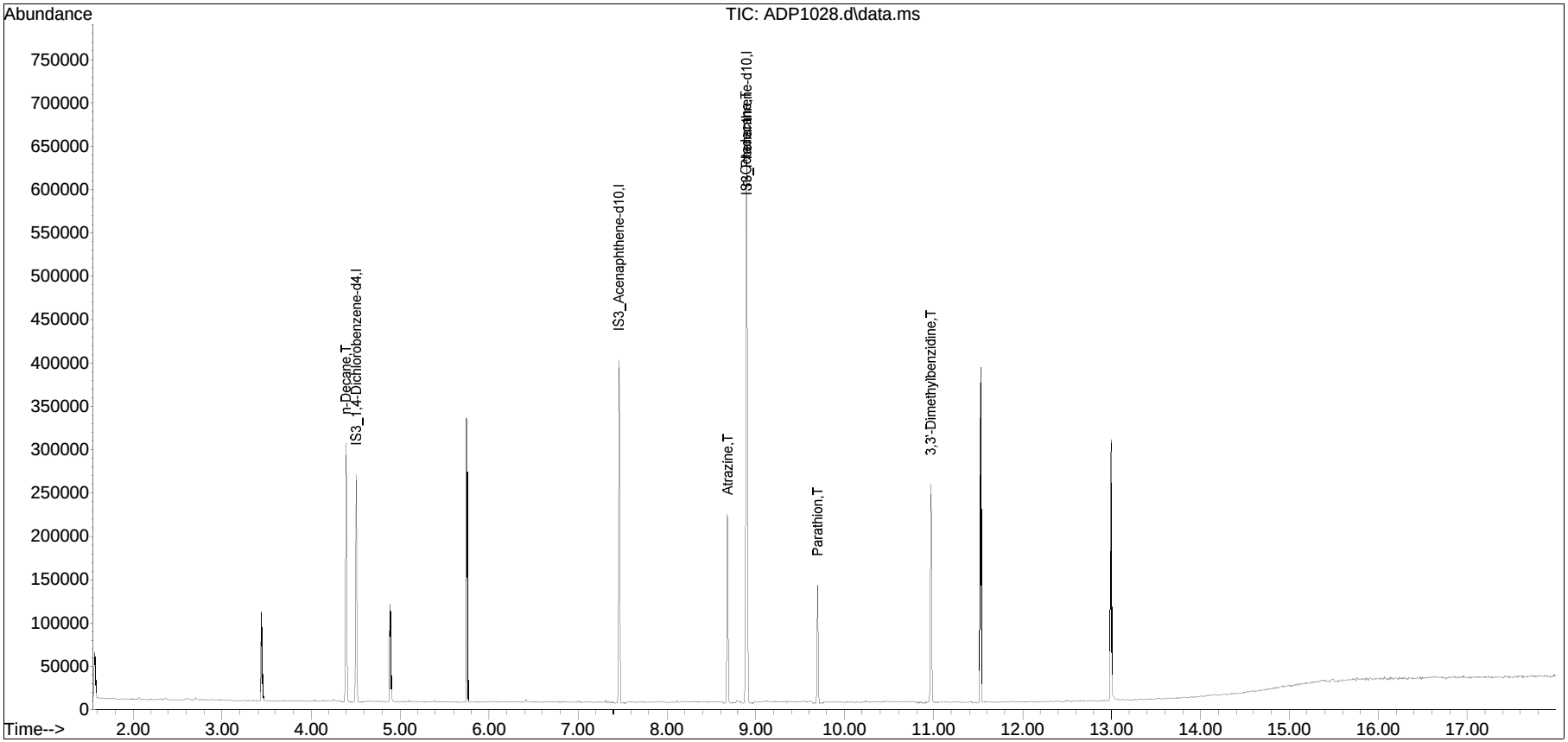
(#) = qualifier out of range (m) = manual integration (+) = signals summed

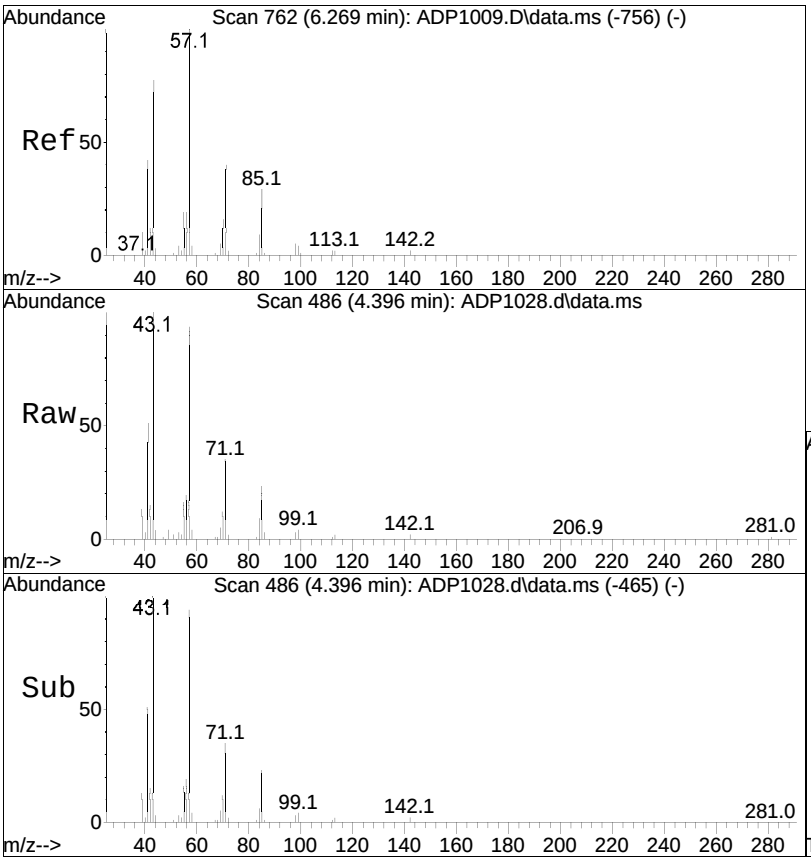
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201028lvi\
Data File : ADP1028.d
Acq On : 28 Oct 2020 11:01 pm
Operator : SV124:jg
Sample : WG1426005-5,32,,ADP LVI Lot # 8938
Misc : WG1426005,,ical17255
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Oct 28 23:30:59 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 28 23:30:27 2020
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

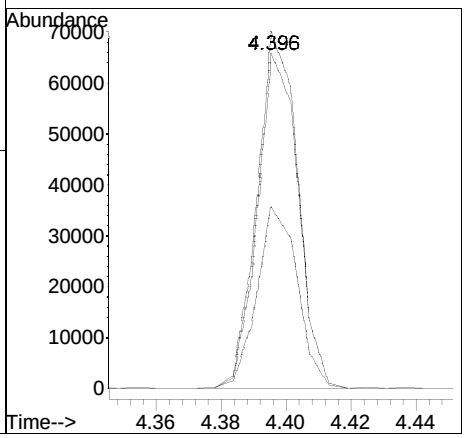


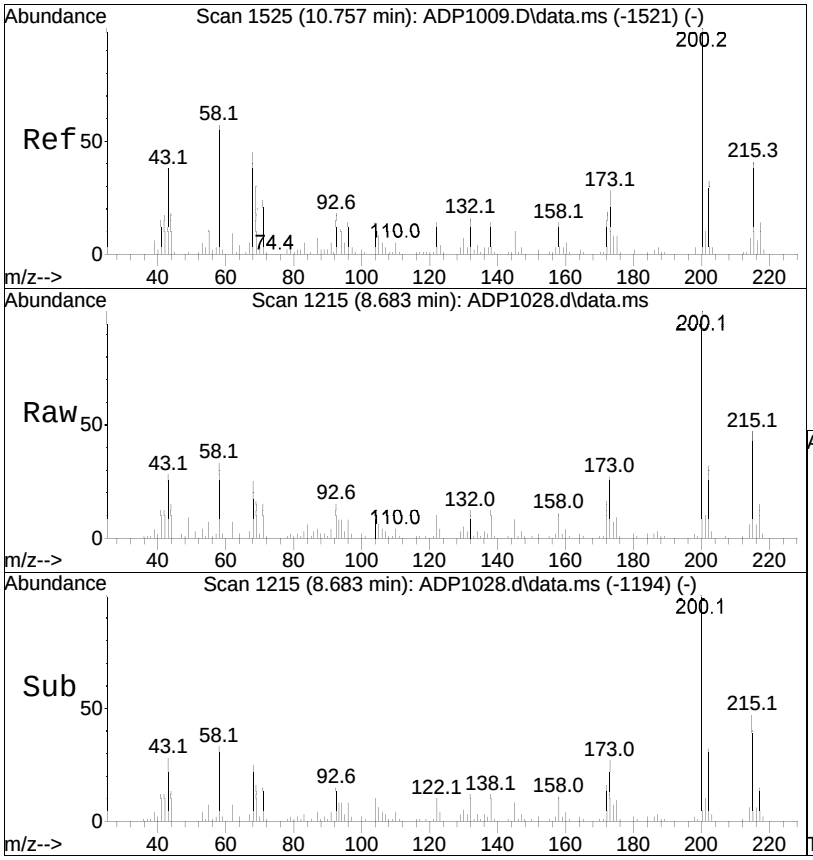


#33
n-Decane
Concen: 4.95 ug/ml
RT: 4.396 min Scan# 486
Delta R.T. 0.000 min
Lab File: ADP1028.d
Acq: 28 Oct 2020 11:01 pm

Tgt Ion: 57 Resp: 56476

Ion	Ratio	Lower	Upper
57	100		
43	106.9	0.2	0.2#
41	54.8	0.2	0.2#

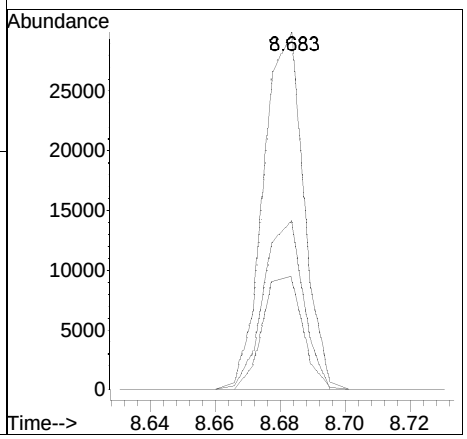


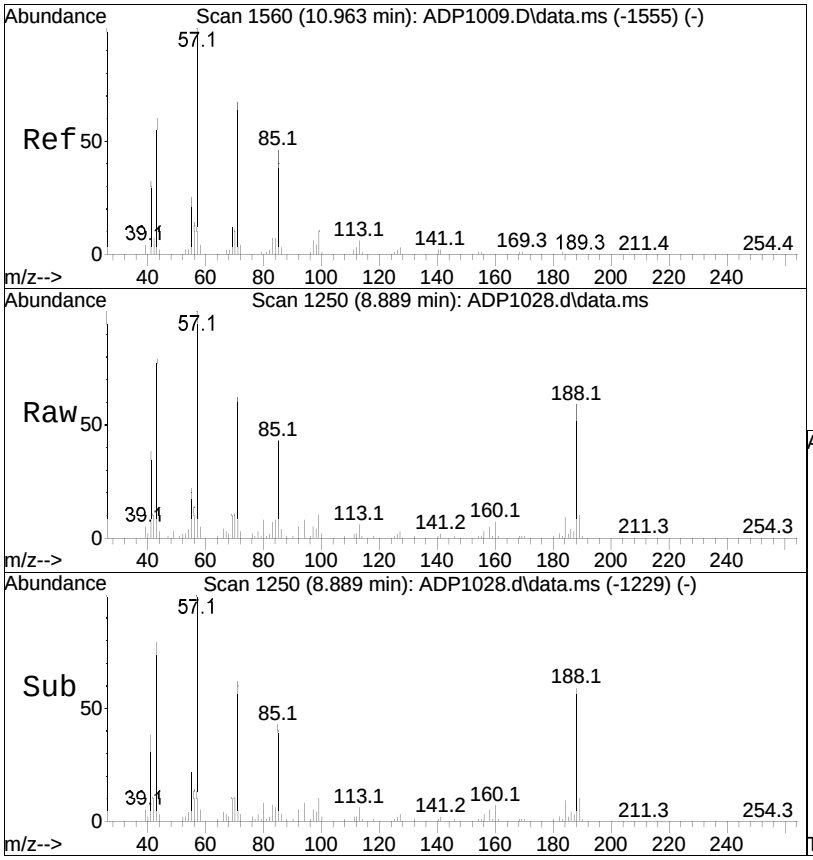


#86
Atrazine
Concen: 4.65 ug/ml
RT: 8.683 min Scan# 1215
Delta R.T. 0.000 min
Lab File: ADP1028.d
Acq: 28 Oct 2020 11:01 pm

Tgt Ion:200 Resp: 25615

Ion	Ratio	Lower	Upper
200	100		
202	31.8	25.8	38.6
215	46.7	40.2	60.4

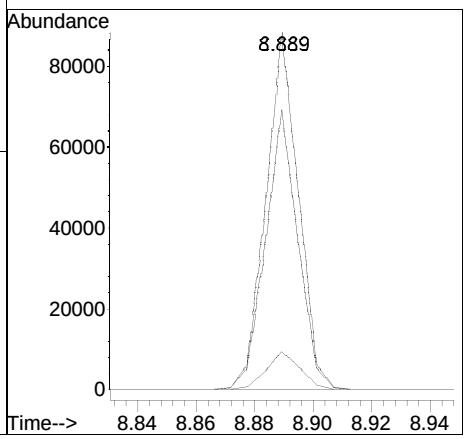


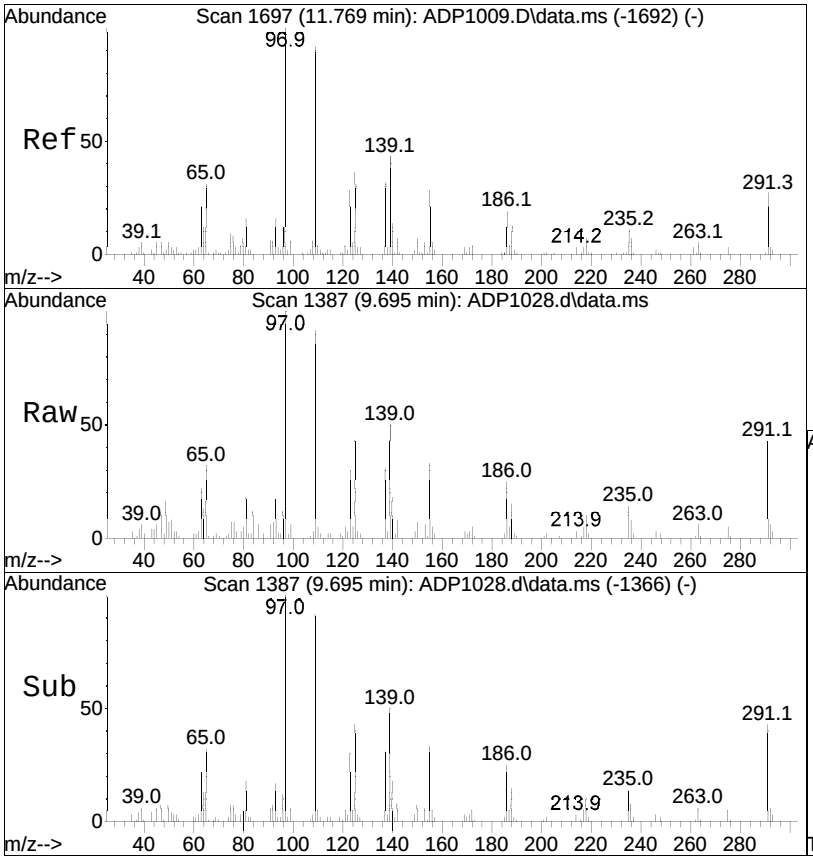


#100
n-Octadecane
Concen: 4.65 ug/ml
RT: 8.889 min Scan# 1250
Delta R.T. 0.000 min
Lab File: ADP1028.d
Acq: 28 Oct 2020 11:01 pm

Tgt Ion: 57 Resp: 67580

Ion	Ratio	Lower	Upper
57	100		
43	78.0	9.0	13.6#
70	11.1	0.2	0.2#

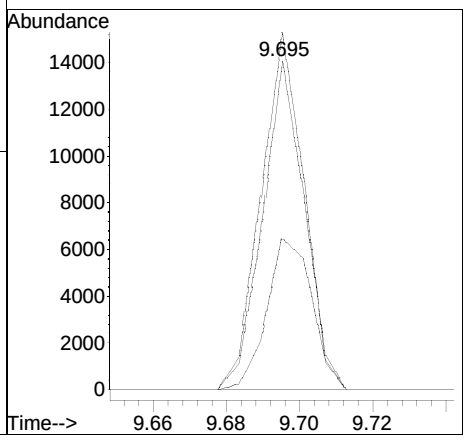


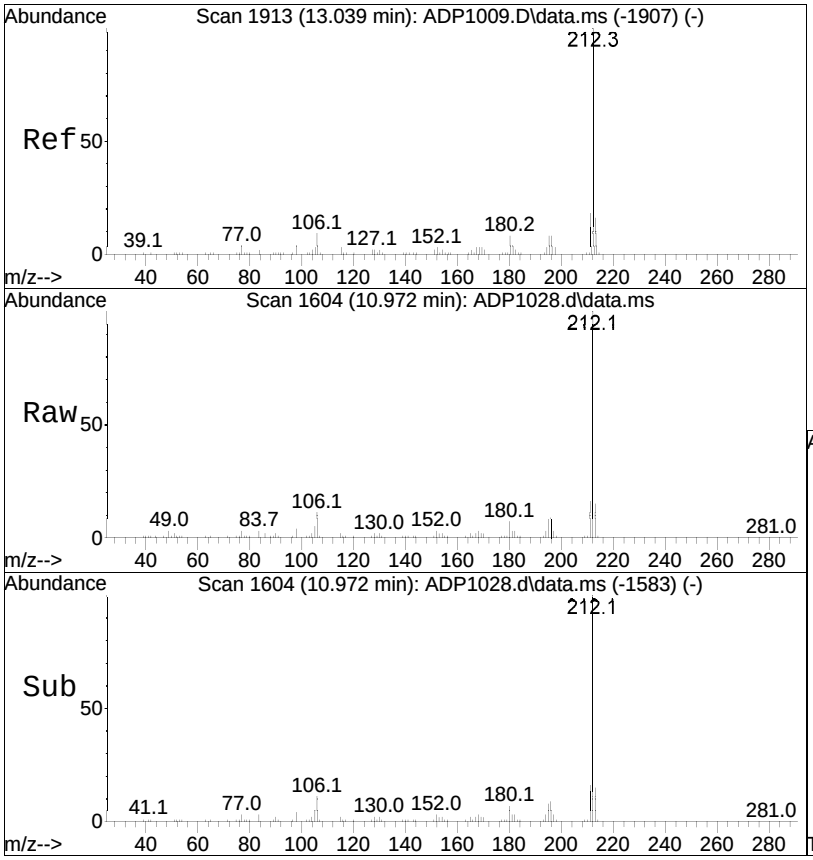


#101
Parathion
Concen: 4.38 ug/ml
RT: 9.695 min Scan# 1387
Delta R.T. 0.000 min
Lab File: ADP1028.d
Acq: 28 Oct 2020 11:01 pm

Tgt Ion:109 Resp: 11125

Ion	Ratio	Lower	Upper
109	100		
97	111.2	87.4	131.2
291	49.9	34.2	51.2

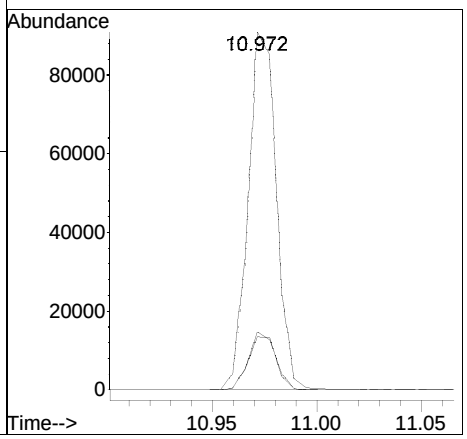




#102
3,3'-Dimethylbenzidine
Concen: 4.43 ug/ml
RT: 10.972 min Scan# 1604
Delta R.T. 0.000 min
Lab File: ADP1028.d
Acq: 28 Oct 2020 11:01 pm

Tgt Ion:212 Resp: 84735

Ion	Ratio	Lower	Upper
212	100		
211	15.8	12.9	19.3
213	15.1	13.2	19.8



Manual Integration Report

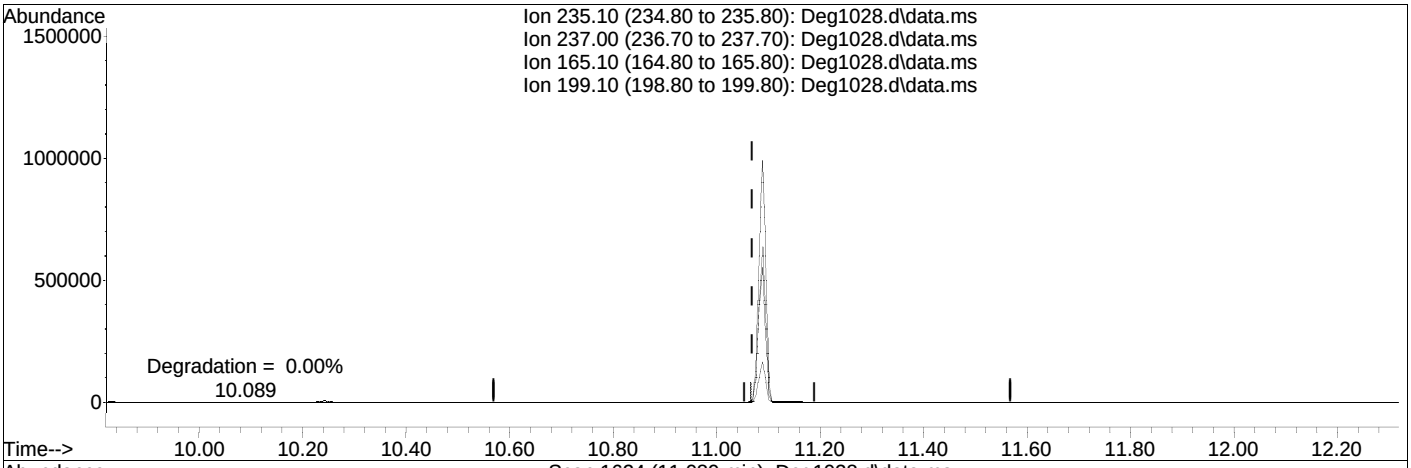
Data Path	: I:\8270\SV124\201028lvi\	QMethod	: FS201012SV124.m
Data File	: ADP1028.d	Operator	: SV124:jg
Date Inj'd	: 10/28/2020 11:01 pm	Instrument	: SV 124
Sample	: WG1426005-5,32,,ADP LVI Lo	Quant Date	: 10/28/2020 11:30 pm

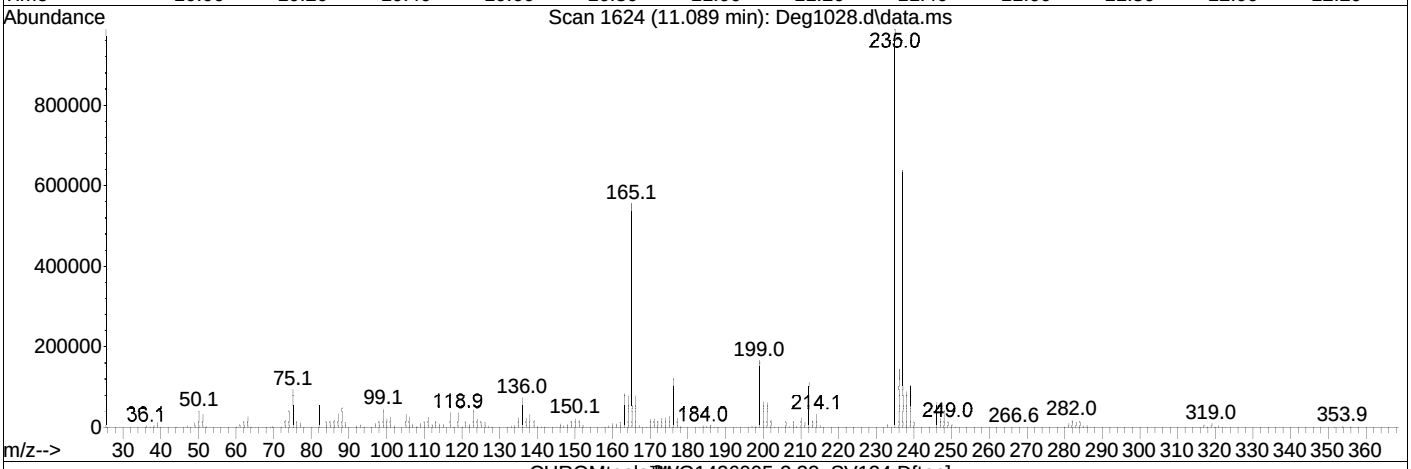
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV124\201028lvi\
Data File : Deg1028.d
Acq On : 28 Oct 2020 9:51 pm
Operator : SV124:jg
Sample : WG1426005-2,32,,SV124 Dftpp
Misc : WG1426005,wg,ical17255
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 28 22:10:03 2020
Quant Method : I:\8270\SV124\201028lvi\dftppSV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 28 09:04:22 2020
Response via : Initial Calibration





CHROMtools [WG1426005-2,32,,SV124 Dftpp]

(6) DDT (T)

11.089min (+ 0.021) 143.47 Lin

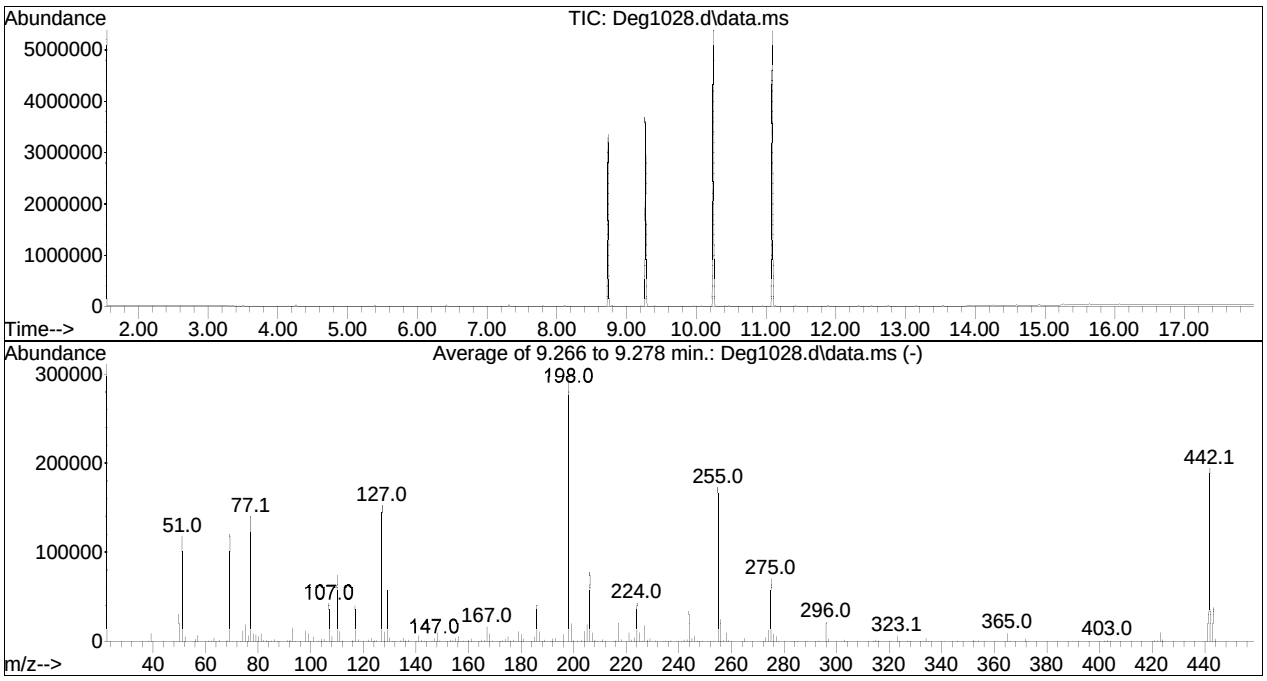
response 874552

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.80	64.13
165.10	55.30	55.08
199.10	16.60	16.23

Data Path : I:\8270\SV124\201028lvi\
Data File : Deg1028.d
Acq On : 28 Oct 2020 9:51 pm
Operator : SV124:jg
Sample : WG1426005-1,32,,SV124 Dftpp
Misc : WG1426005,wg,ical17255
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Oct 29 06:42:42 2020



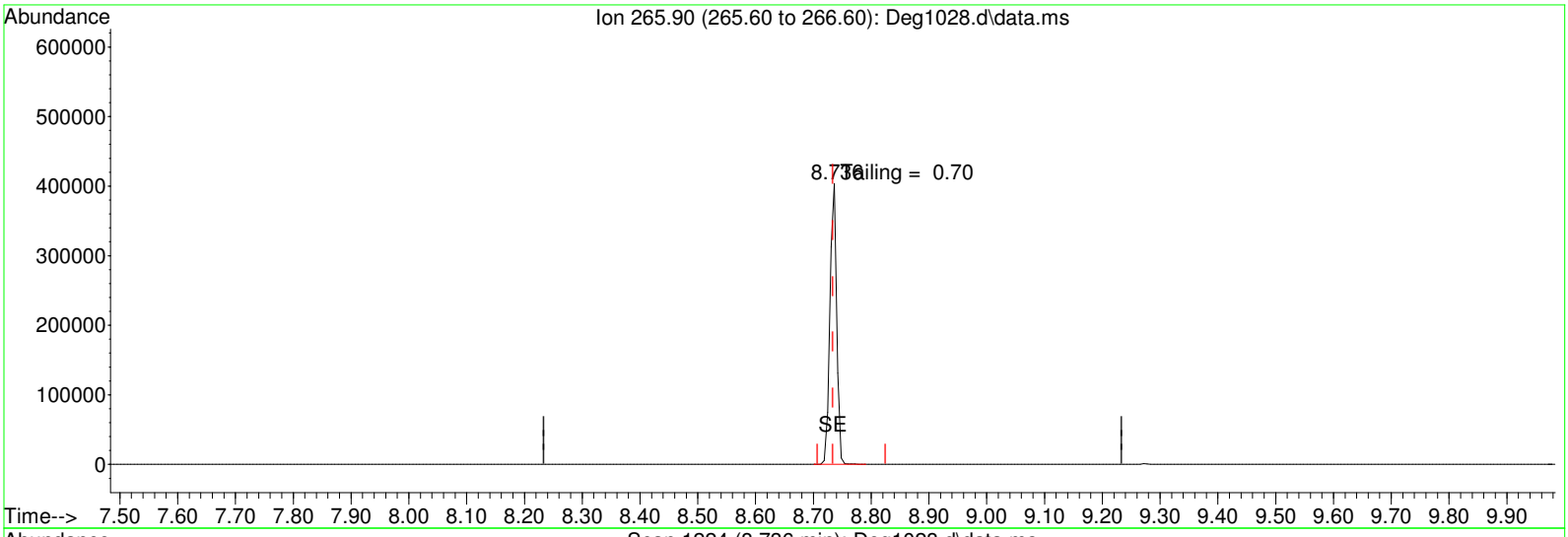
Spectrum Information: Average of 9.266 to 9.278 min.

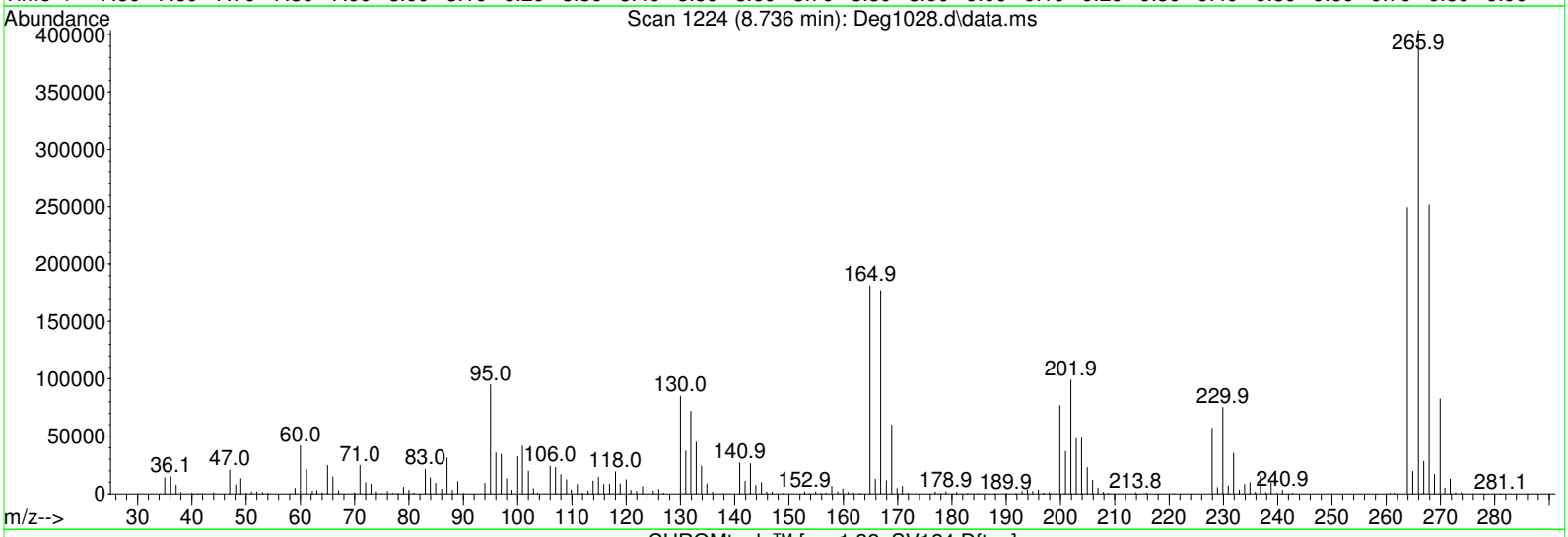
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	39.5	117019	PASS
68	69	0.00	2	1.5	1811	PASS
69	69	100	100	100.0	119171	PASS
70	69	0.00	2	0.5	593	PASS
127	198	10	80	51.4	152141	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	295915	PASS
199	198	5	9	6.7	19775	PASS
275	198	10	60	23.5	69661	PASS
365	198	1	100	3.2	9501	PASS
441	442	0.01	24	16.9	32770	PASS
442	198	50	100	65.5	193917	PASS
443	442	15	24	19.4	37624	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV124\201028lvi\
Data File : Deg1028.d
Acq On : 28 Oct 2020 9:51 pm
Operator : SV124:
Sample : wg-1,32,,SV124 Dftpp
Misc : wg,wg,ical17255
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 28 22:10:03 2020
Quant Method : I:\8270\SV124\201028lvi\dftppSV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 28 09:04:22 2020
Response via : Initial Calibration





CHROMtools™ [wg-1,32,,SV124 Dftpp]

(1) Pentachlorophenol (T)

8.736min (+ 0.003) 158.33 Lin

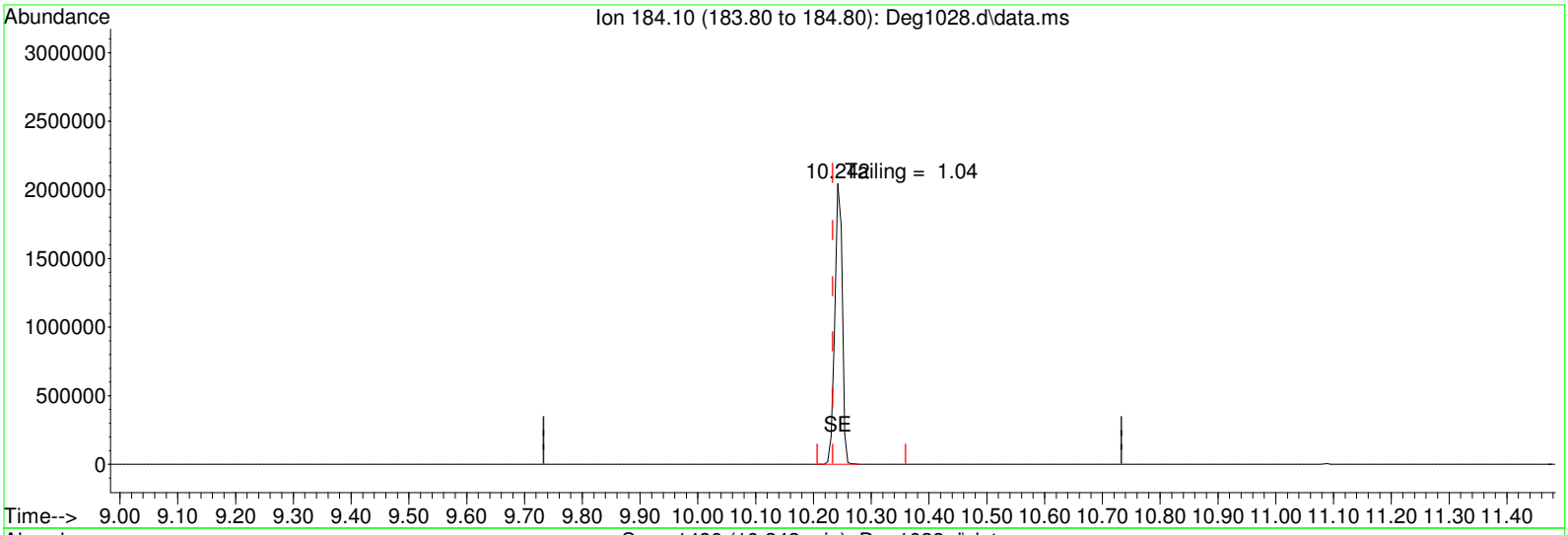
response 332560

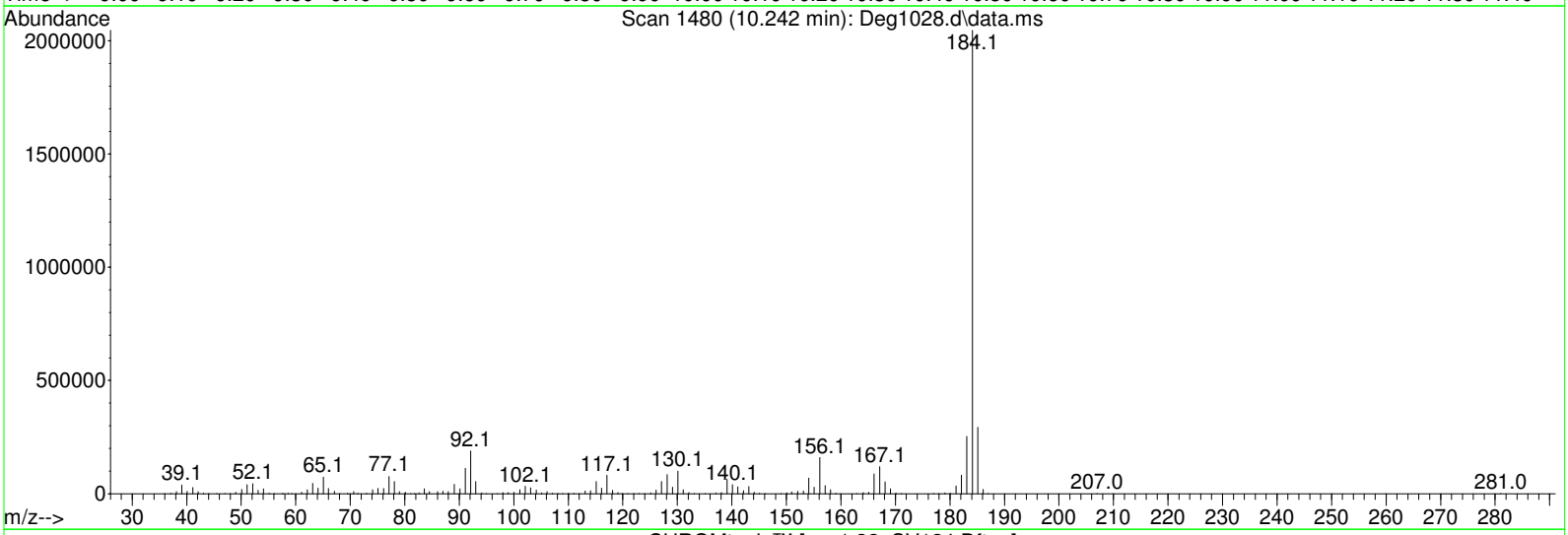
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV124\201028lvi\
Data File : Deg1028.d
Acq On : 28 Oct 2020 9:51 pm
Operator : SV124:
Sample : wg-1,32,,SV124 Dftpp
Misc : wg,wg,ical17255
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 28 22:10:03 2020
Quant Method : I:\8270\SV124\201028lvi\dftppSV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Oct 28 09:04:22 2020
Response via : Initial Calibration





CHROMtools™ [wg-1,32,,SV124 Dftpp]

(3) Benzidine (T)

10.242min (+ 0.009) 179.74 Lin

response 1829757

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Semivolatiles Raw QC Data

Quantitation Report (QT/LSC Reviewed)

Data Path : I:\8270\SV124\201028lvi\
Data File : 427424-1.d
Acq On : 28 Oct 2020 11:24 pm
Operator : SV124:jg
Sample : WG1427424-1,32,,NY-LVI,ASK+
Misc : WG1426005,WG1427424,ICAL17255
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 29 13:32:18 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 13:28:14 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201028lvi\ABN1028.d
: 2 - I:\8270\SV124\201028lvi\ADP1028.d
: 3 - I:\8270\SV124\201028lvi\AP91028.d
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.507	150	61528	4.000	ug/ml	0.00
Standard Area 1 = 71509			Recovery = 86.04%			
27) IS2_1,4-Dichlorobenzen...	4.507	150	61528	4.000	ug/ml	0.00
Standard Area 3 = 63930			Recovery = 96.24%			
32) IS3_1,4-Dichlorobenzen...	4.507	150	61528	4.000	ug/ml	0.00
Standard Area 2 = 59319			Recovery = 103.72%			
34) IS1_Naphthalene-d8	5.754	136	148990	4.000	ug/ml	0.00
Standard Area 1 = 170374			Recovery = 87.45%			
54) IS2_Naphthalene-d8	5.754	136	148990	4.000	ug/ml	0.00
Standard Area 3 = 162378			Recovery = 91.76%			
62) IS1_Acenaphthene-d10	7.460	164	77901	4.000	ug/ml	0.00
Standard Area 1 = 94617			Recovery = 82.33%			
82) IS2_Acenaphthene-d10	7.460	164	77901	4.000	ug/ml	0.00
Standard Area 3 = 87701			Recovery = 88.83%			
85) IS3_Acenaphthene-d10	7.460	164	77901	4.000	ug/ml	0.00
Standard Area 2 = 75844			Recovery = 102.71%			
87) IS1_Phenanthrene-d10	8.895	188	146884	4.000	ug/ml	0.00
Standard Area 1 = 179611			Recovery = 81.78%			
99) IS3_Phenanthrene-d10	8.895	188	146884	4.000	ug/ml	0.00
Standard Area 2 = 154615			Recovery = 95.00%			
103) IS1_Chrysene-d12	11.530	240	124236	4.000	ug/ml	0.00
Standard Area 1 = 190256			Recovery = 65.30%			
112) IS1_Perylene-d12	12.995	264	118421	4.000	ug/ml	0.00
Standard Area 1 = 196697			Recovery = 60.20%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.213	112	28870	2.899	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 57.98%			
7) Phenol-d6	4.190	99	29425	2.438	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 48.76%			
19) Nitrobenzene-d5	5.060	82	20406	1.745	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 69.80%			
45) 2-Fluorobiphenyl	6.831	172	55943	1.863	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 74.52%			
78) 2,4,6-Tribromophenol	8.231	330	10565	2.531	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 50.62%			

Quantitation Report (QT/LSC Reviewed)

Data Path : I:\8270\SV124\201028lvi\
Data File : 427424-1.d
Acq On : 28 Oct 2020 11:24 pm
Operator : SV124:jg
Sample : WG1427424-1,32,,NY-LVI,ASK+
Misc : WG1426005,WG1427424,ICAL17255
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 29 13:32:18 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 13:28:14 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201028lvi\ABN1028.d
: 2 - I:\8270\SV124\201028lvi\ADP1028.d
: 3 - I:\8270\SV124\201028lvi\AP91028.d
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 4-Terphenyl-d14	10.489	244	64821	1.868	ug/ml	0.00

Spiked Amount 2.500 Range 30 - 130 Recovery = 74.72%

Target Compounds			Qvalue
8) Phenol	0.000	0	N.D.
15) 2-Methylphenol	0.000	0	N.D.
18) 3-Methylphenol/4-Methy...	0.000	0	N.D.
66) Dibenzofuran	0.000	0	N.D.

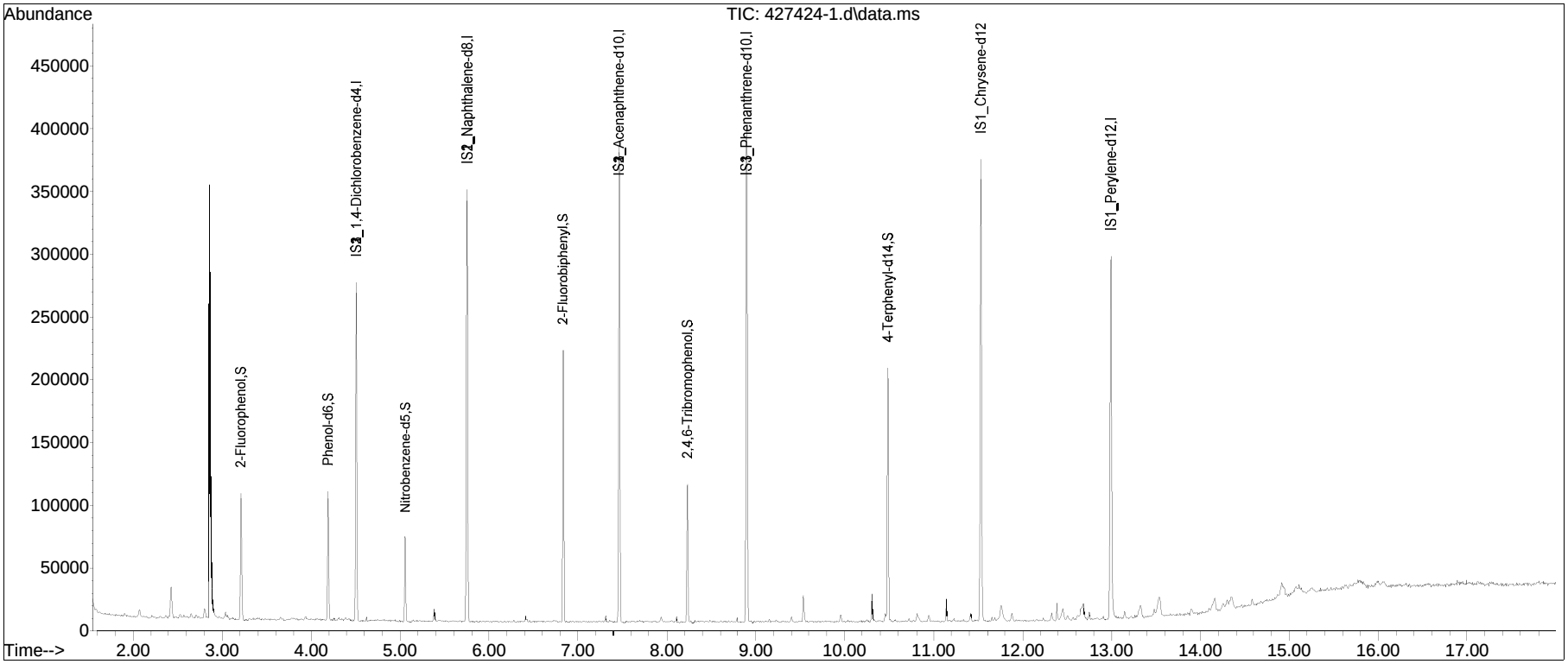
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : I:\8270\SV124\201028lvi\
Data File : 427424-1.d
Acq On : 28 Oct 2020 11:24 pm
Operator : SV124:jg
Sample : WG1427424-1,32,,NY-LVI,ASK+
Misc : WG1426005,WG1427424,ICAL17255
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 29 13:32:18 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 13:28:14 2020
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MAlvi\AP91028.d•



Manual Integration Report

Data Path	: I:\8270\SV124\201028lvi\	QMethod	: FS201012SV124.m
Data File	: 427424-1.d	Operator	: SV124:jg
Date Inj'd	: 10/28/2020 11:24 pm	Instrument	: SV 124
Sample	: WG1427424-1,32,,NY-LVI,ASK	Quant Date	: 10/29/2020 1:29 pm

There are no manual integrations or false positives in this file.

LSC Area Percent Report

Data Path : I:\8270\SV124\201028lvi\
Data File : 427424-1.d
Acq On : 28 Oct 2020 11:24 pm
Operator : SV124:jg
Sample : WG1427424-1,32,,NY-LVI,ASK+
Misc : WG1426005,WG1427424,ICAL17255
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Title : Semivolatiles by GC/MS by modified 8270

Signal : TIC: 427424-1.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.072	87	91	95	rVB	5438	6880	1.80%	0.203%
2	2.431	149	152	157	rVB	24933	30472	7.99%	0.898%
3	2.531	166	169	172	rBV3	3223	4134	1.08%	0.122%
4	2.801	212	215	219	rBV2	7552	9443	2.48%	0.278%
5	2.854	222	224	241	rVB	345346	381406	100.00%	11.245%
6	3.031	250	254	257	rBV4	5084	6779	1.78%	0.200%
7	3.213	282	285	290	rVB	101352	98071	25.71%	2.891%
8	3.931	403	407	411	rBV5	2971	4661	1.22%	0.137%
9	4.190	448	451	456	rVB	102794	83481	21.89%	2.461%
10	4.390	481	485	489	rBV3	2577	4047	1.06%	0.119%
11	4.507	501	505	509	rVB	269621	227652	59.69%	6.712%
12	5.054	595	598	602	rBV	67497	59751	15.67%	1.762%
13	5.384	651	654	660	rVB2	9709	7972	2.09%	0.235%
14	5.754	713	717	720	rVB	343887	297312	77.95%	8.766%
15	6.831	897	900	904	rVB	216580	160574	42.10%	4.734%
16	7.313	978	982	984	rBV	4853	4784	1.25%	0.141%
17	7.460	1004	1007	1011	rBV	383039	342262	89.74%	10.091%
18	7.936	1085	1088	1093	rVB3	3959	4212	1.10%	0.124%
19	8.231	1134	1138	1141	rBV	109879	88862	23.30%	2.620%
20	8.789	1229	1233	1236	rVB4	3728	4164	1.09%	0.123%
21	8.895	1248	1251	1255	rBV	395422	360008	94.39%	10.614%
22	9.401	1333	1337	1345	rVB3	4286	5116	1.34%	0.151%
23	9.530	1357	1359	1364	rVB2	20833	18950	4.97%	0.559%
24	9.954	1428	1431	1436	rVB2	5671	6025	1.58%	0.178%
25	10.307	1486	1491	1494	rBV	22359	20610	5.40%	0.608%
26	10.460	1513	1517	1519	rBV2	6763	7549	1.98%	0.223%
27	10.489	1519	1522	1525	rVB	201011	177140	46.44%	5.223%
28	10.807	1571	1576	1586	rVB4	6612	13993	3.67%	0.413%

LSC Area Percent Report

Data Path : I:\8270\SV124\201028lvi\
Data File : 427424-1.d
Acq On : 28 Oct 2020 11:24 pm
Operator : SV124:jg
Sample : WG1427424-1,32,,NY-LVI,ASK+
Misc : WG1426005,WG1427424,ICAL17255
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Title : Semivolatiles by GC/MS by modified 8270

29	10.942	1596	1599	1602	rBV2	4981	5397	1.42%	0.159%
30	11.142	1629	1633	1636	rVB	17979	16849	4.42%	0.497%
31	11.419	1675	1680	1683	rBV4	6509	7631	2.00%	0.225%
32	11.530	1694	1699	1704	rBV	367688	351416	92.14%	10.361%
33	11.760	1729	1738	1750	rVB2	12316	28755	7.54%	0.848%
34	11.877	1754	1758	1763	rBV5	6275	7792	2.04%	0.230%
35	12.324	1830	1834	1838	rBV3	6080	6351	1.67%	0.187%
36	12.383	1840	1844	1849	rBV2	14453	16740	4.39%	0.494%
37	12.454	1849	1856	1861	rVV4	9139	16265	4.26%	0.480%
38	12.507	1861	1865	1873	rVB4	3488	5021	1.32%	0.148%
39	12.619	1881	1884	1886	rBV3	3398	4886	1.28%	0.144%
40	12.677	1887	1894	1902	rVV5	12506	32621	8.55%	0.962%
41	12.742	1902	1905	1909	rVB4	5795	6866	1.80%	0.202%
42	12.995	1943	1948	1956	rBV	289435	325044	85.22%	9.583%
43	13.148	1971	1974	1978	rBV4	5743	5884	1.54%	0.173%
44	13.336	1999	2006	2009	rBV5	8982	16976	4.45%	0.501%
45	13.483	2026	2031	2033	rBV5	5555	5967	1.56%	0.176%
46	13.536	2033	2040	2046	rVB5	13962	32400	8.49%	0.955%
47	13.895	2097	2101	2106	rBV7	5442	10833	2.84%	0.319%
48	14.160	2138	2146	2149	rBV7	9603	19245	5.05%	0.567%
49	14.254	2159	2162	2165	rBV3	3292	3854	1.01%	0.114%
50	14.295	2167	2169	2172	rVV4	4144	4541	1.19%	0.134%
51	14.583	2215	2218	2222	rVB5	4729	4706	1.23%	0.139%
52	14.912	2269	2274	2278	rBV6	10029	19452	5.10%	0.574%

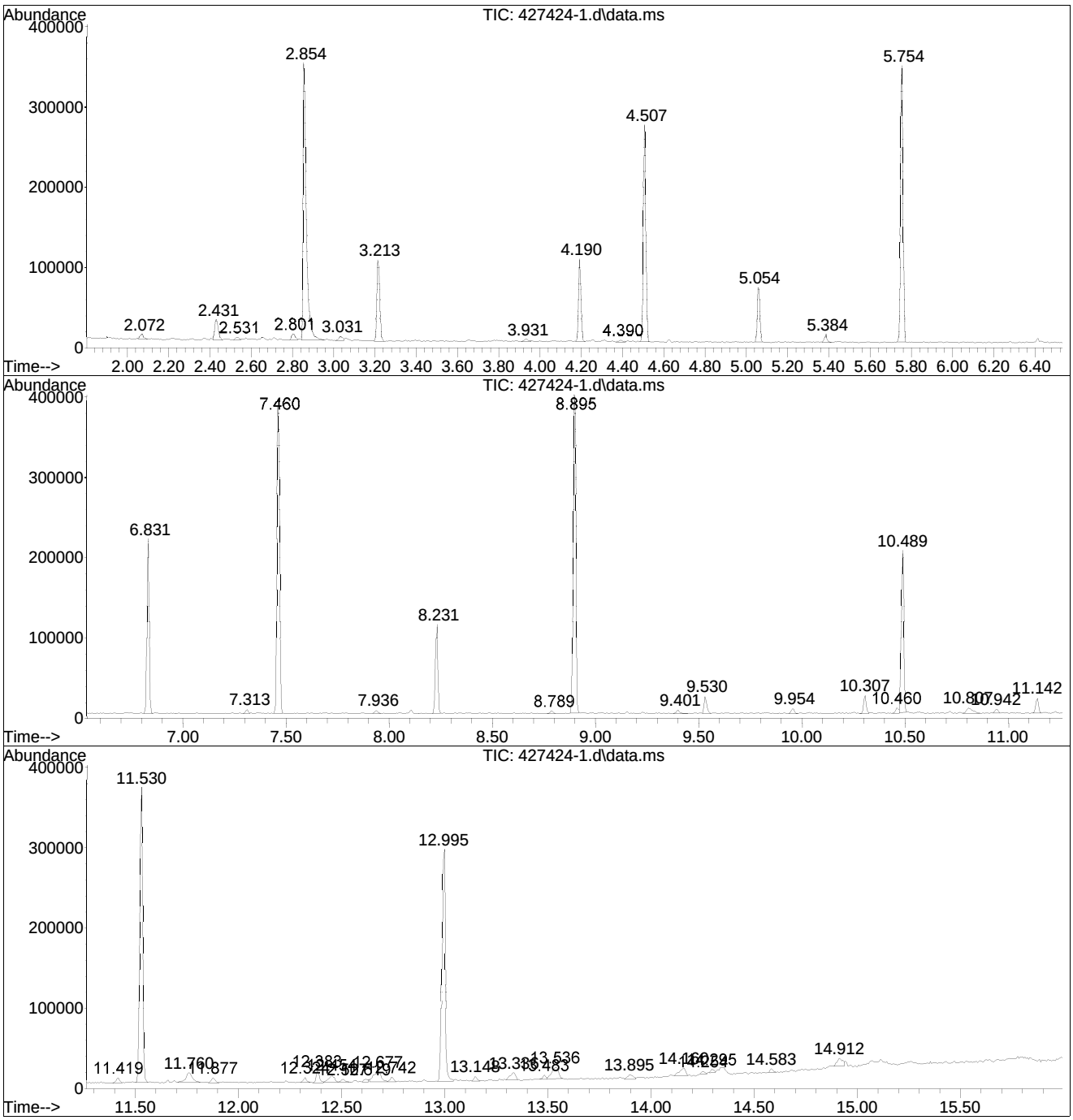
Sum of corrected areas: 3391802

LSC Report - Integrated Chromatogram

Data Path : I:\8270\SV124\201028lvi\
Data File : 427424-1.d
Acq On : 28 Oct 2020 11:24 pm
Operator : SV124:jg
Sample : WG1427424-1,32,,NY-LVI,ASK+
Misc : WG1426005,WG1427424,ICAL17255
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\8270\SV124\201028lvi\
Data File : 427424-1.d
Acq On : 28 Oct 2020 11:24 pm
Operator : SV124:jg
Sample : WG1427424-1,32,,NY-LVI,ASK+
Misc : WG1426005,WG1427424,ICAL17255
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270

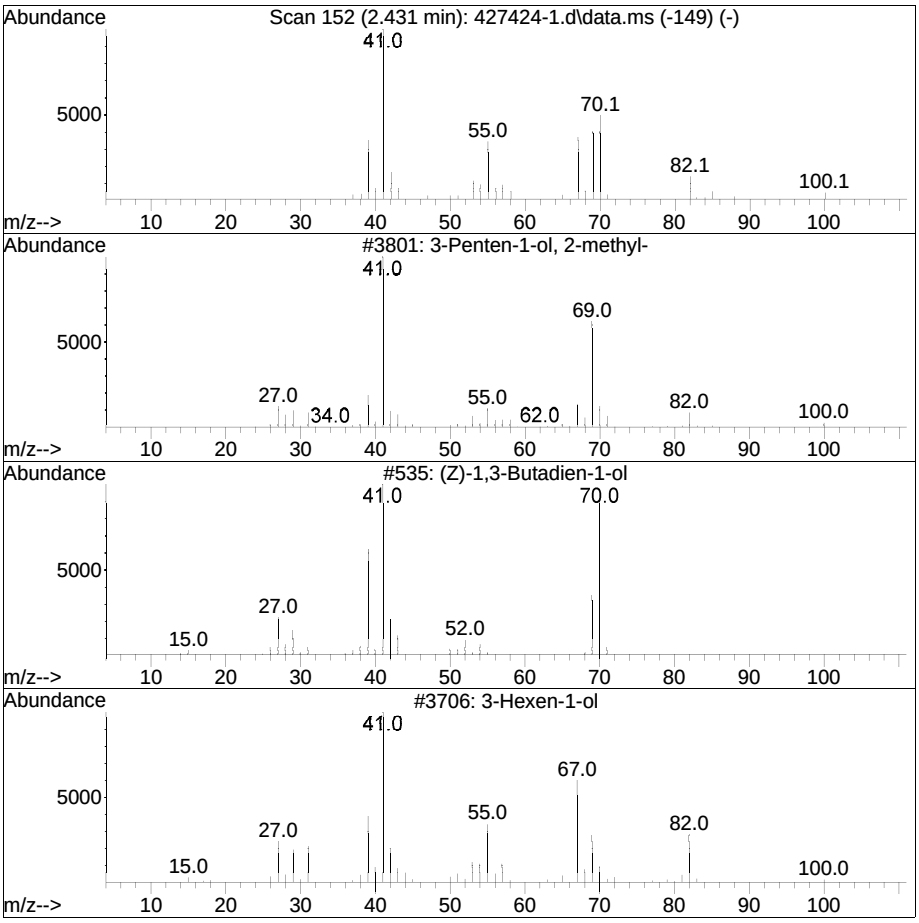
TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

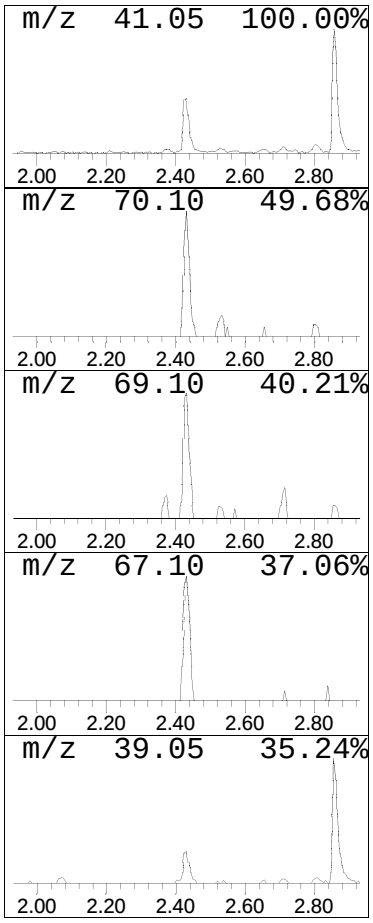
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Peak Number 1 Unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.431	0.54 ug/ml	30472	IS2_1,4-Dichlorobenzene-d4	4.507

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Penten-1-ol, 2-methyl-	100	C6H12O	062238-37-3	47
2	(Z)-1,3-Butadien-1-ol	70	C4H6O	070415-58-6	43
3	3-Hexen-1-ol	100	C6H12O	000544-12-7	37
4	1-Hexene, 3,5-dimethyl-	112	C8H16	007423-69-0	36
5	3-Hexen-1-ol, (E)-	100	C6H12O	000928-97-2	35





Library Search Compound Report

Data Path : I:\8270\SV124\201028lvi\
Data File : 427424-1.d
Acq On : 28 Oct 2020 11:24 pm
Operator : SV124:jg
Sample : WG1427424-1,32,,NY-LVI,ASK+
Misc : WG1426005,WG1427424,ICAL17255
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270

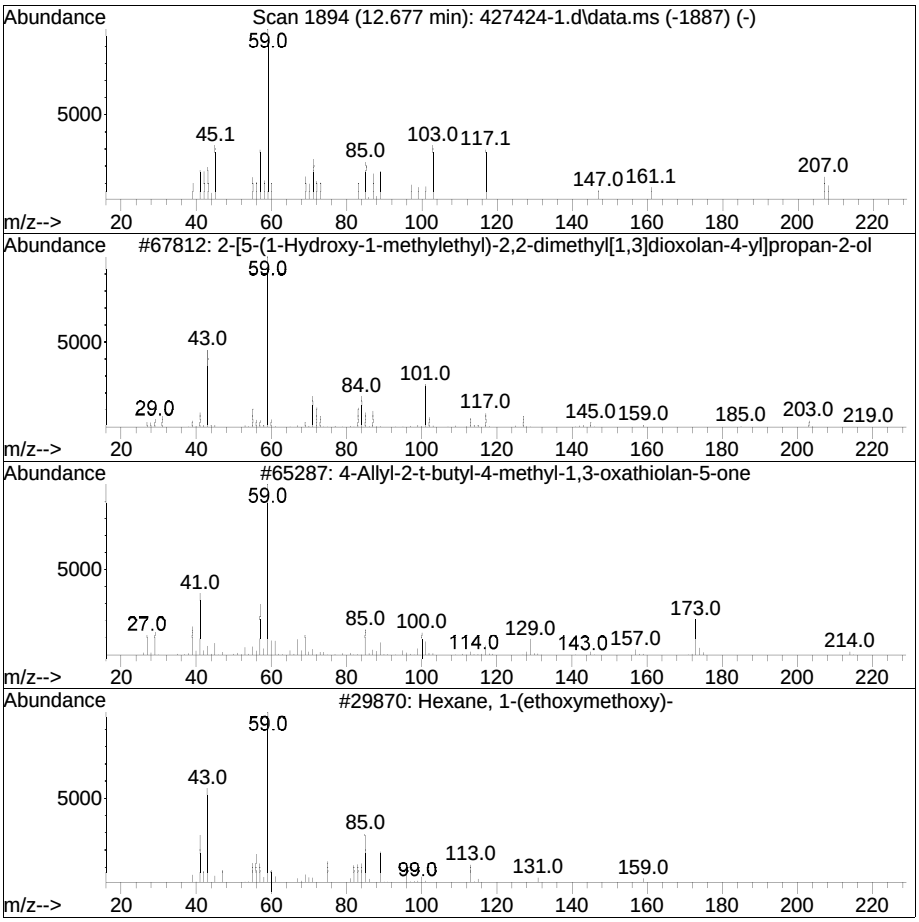
TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

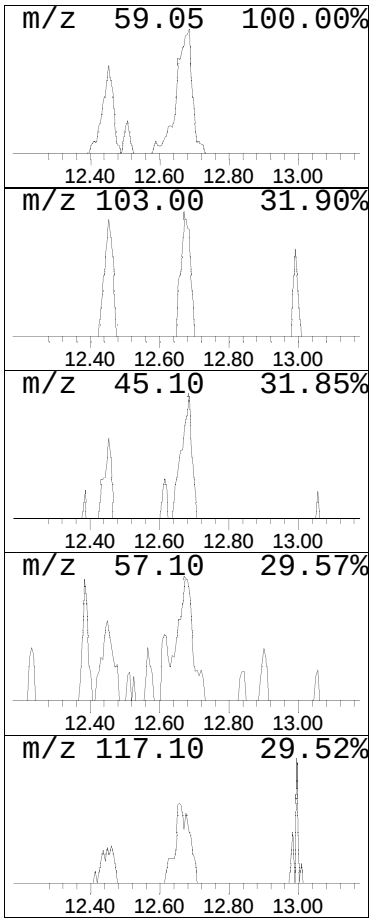
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Peak Number 3 Unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.677	0.40 ug/ml	32621	IS1_Perylene-d12	12.995

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-[5-(1-Hydroxy-1-methylethyl)-2...	218	C11H22O4	1000190-33-6	38
2	4-Allyl-2-t-butyl-4-methyl-1,3-o...	214	C11H18O2S	092572-53-7	37
3	Hexane, 1-(ethoxymethoxy)-	160	C9H20O2	151705-35-0	37
4	Acetaldehyde N-formyl-N-methylhy...	100	C4H8N2O	016568-02-8	32
5	Allyldimethylsilane	100	C5H12Si	003937-30-2	32





Tentatively Identified Compound (LSC) summary

Data Path : I:\8270\SV124\201028lvi\
Data File : 427424-1.d
Acq On : 28 Oct 2020 11:24 pm
Operator : SV124:jg
Sample : WG1427424-1,32,,NY-LVI,ASK+
Misc : WG1426005,WG1427424,ICAL17255
ALS Vial : 1 Sample Multiplier: 1

Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	2.431	0.5	ug/ml	30472	1	4.507	227652	4.0
Unknown	12.677	0.4	ug/ml	32621	13	12.995	325044	4.0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201028lvi\
Data File : 427424-2.d
Acq On : 28 Oct 2020 11:47 pm
Operator : SV124:jg
Sample : WG1427424-2,32,,NY-LVI,ASK+
Misc : WG1426005,WG1427424,ICAL17255
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 29 13:33:56 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 13:28:14 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201028lvi\ABN1028.d
: 2 - I:\8270\SV124\201028lvi\ADP1028.d
: 3 - I:\8270\SV124\201028lvi\AP91028.d
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.507	150	50269M6	4.000	ug/ml	0.00
Standard Area 1 = 71509			Recovery = 70.30%			
27) IS2_1,4-Dichlorobenzen...	4.507	150	50269M6	4.000	ug/ml	0.00
Standard Area 3 = 63930			Recovery = 78.63%			
32) IS3_1,4-Dichlorobenzen...	4.507	150	50269M6	4.000	ug/ml	0.00
Standard Area 2 = 59319			Recovery = 84.74%			
34) IS1_Naphthalene-d8	5.754	136	119735	4.000	ug/ml	0.00
Standard Area 1 = 170374			Recovery = 70.28%			
54) IS2_Naphthalene-d8	5.754	136	119735	4.000	ug/ml	0.00
Standard Area 3 = 162378			Recovery = 73.74%			
62) IS1_Acenaphthene-d10	7.466	164	63086	4.000	ug/ml	0.00
Standard Area 1 = 94617			Recovery = 66.68%			
82) IS2_Acenaphthene-d10	7.466	164	63086	4.000	ug/ml	0.00
Standard Area 3 = 87701			Recovery = 71.93%			
85) IS3_Acenaphthene-d10	7.466	164	63086	4.000	ug/ml	0.00
Standard Area 2 = 75844			Recovery = 83.18%			
87) IS1_Phenanthrene-d10	8.901	188	123631	4.000	ug/ml	0.00
Standard Area 1 = 179611			Recovery = 68.83%			
99) IS3_Phenanthrene-d10	8.901	188	123631	4.000	ug/ml	0.00
Standard Area 2 = 154615			Recovery = 79.96%			
103) IS1_Chrysene-d12	11.530	240	115961	4.000	ug/ml	0.00
Standard Area 1 = 190256			Recovery = 60.95%			
112) IS1_Perylene-d12	12.995	264	115182	4.000	ug/ml	0.00
Standard Area 1 = 196697			Recovery = 58.56%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.213	112	20892	2.568	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 51.36%			
7) Phenol-d6	4.190	99	23032	2.336	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 46.72%			
19) Nitrobenzene-d5	5.054	82	14593	1.527	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 61.08%			
45) 2-Fluorobiphenyl	6.831	172	38277	1.586	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 63.44%			
78) 2,4,6-Tribromophenol	8.231	330	16264	4.719	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 94.38%			

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201028lvi\
Data File : 427424-2.d
Acq On : 28 Oct 2020 11:47 pm
Operator : SV124:jg
Sample : WG1427424-2,32,,NY-LVI,ASK+
Misc : WG1426005,WG1427424,ICAL17255
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 29 13:33:56 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 13:28:14 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201028lvi\ABN1028.d
: 2 - I:\8270\SV124\201028lvi\ADP1028.d
: 3 - I:\8270\SV124\201028lvi\AP91028.d
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 4-Terphenyl-d14	10.489	244	54952	1.882	ug/ml	0.00

Spiked Amount 2.500 Range 30 - 130 Recovery = 75.28%

Target Compounds					Qvalue
8) Phenol	4.201	94	29344	2.446 ug/ml#	67
15) 2-Methylphenol	4.801	108	25893	3.140 ug/ml	100
18) 3-Methylphenol/4-Methy...	4.960	108	28751	3.287 ug/ml	99
66) Dibenzofuran	7.666	168	99854	3.483 ug/ml	97

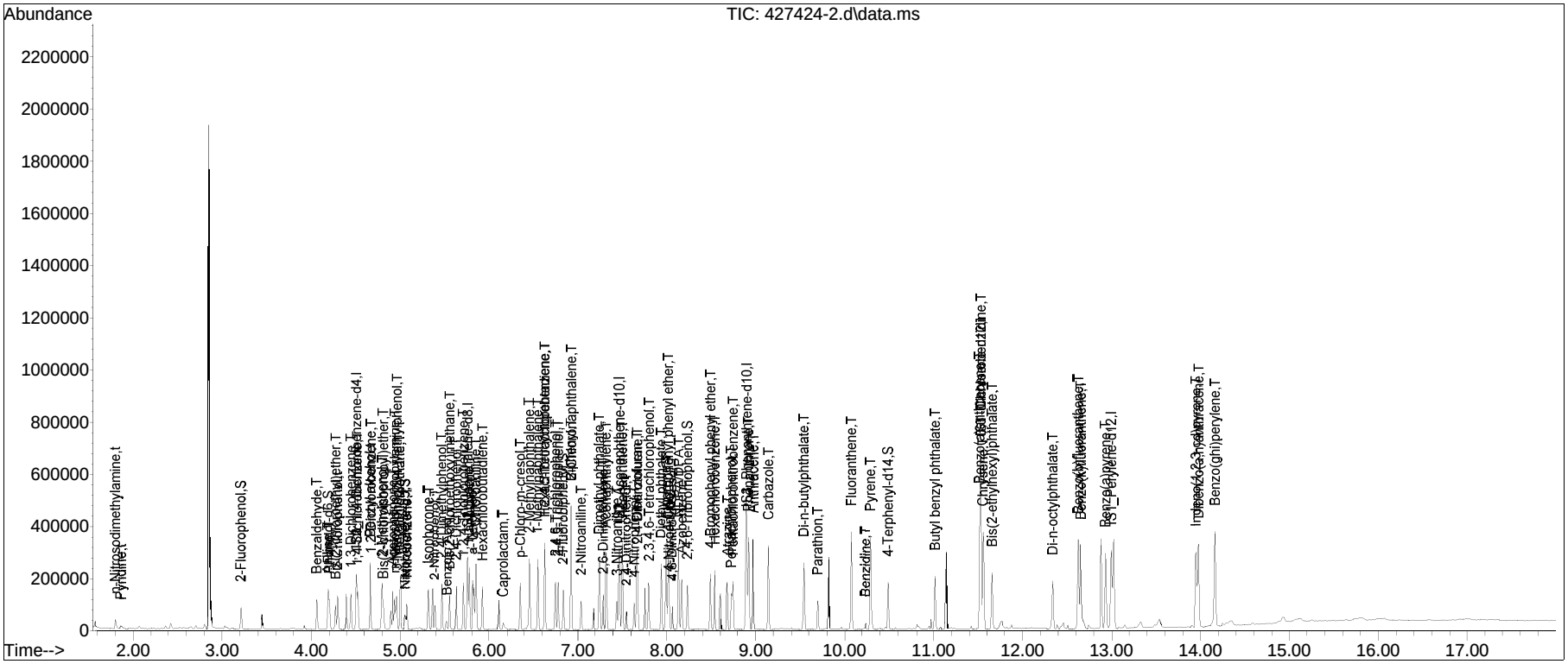
(#) = qualifier out of range (m) = manual integration (+) = signals summed

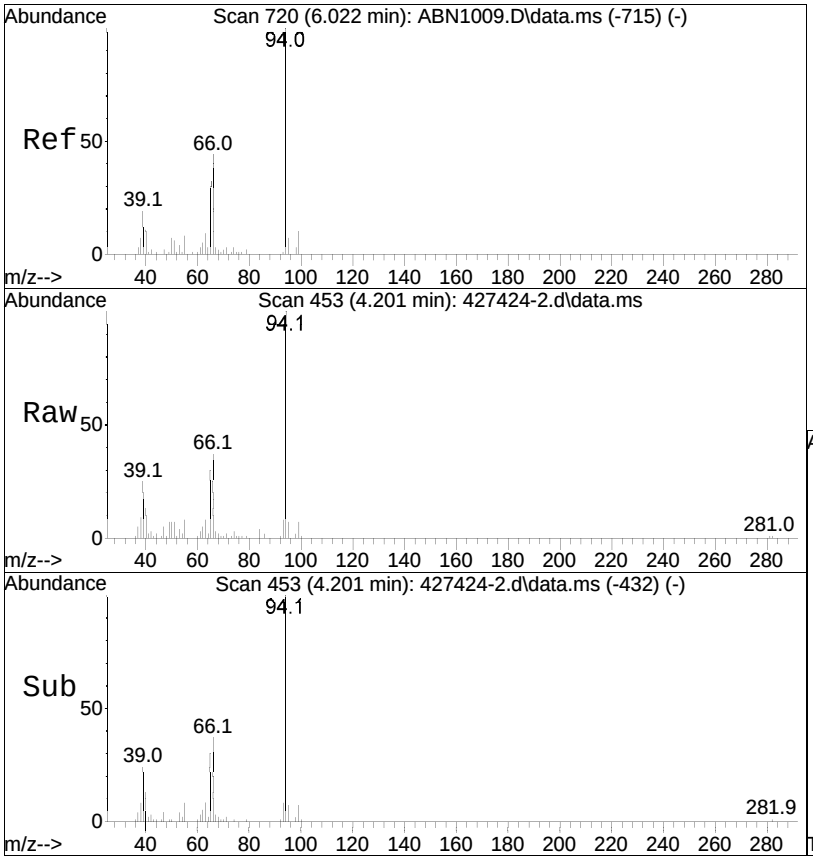
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201028lvi\
Data File : 427424-2.d
Acq On : 28 Oct 2020 11:47 pm
Operator : SV124:jg
Sample : WG1427424-2,32,,NY-LVI,ASK+
Misc : WG1426005,WG1427424,ICAL17255
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 29 13:33:56 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 13:28:14 2020
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MAlvi\AP91028.d•

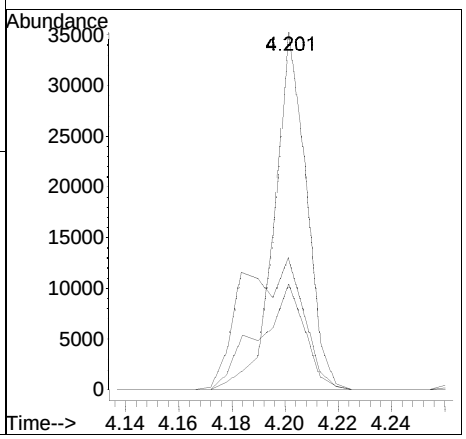


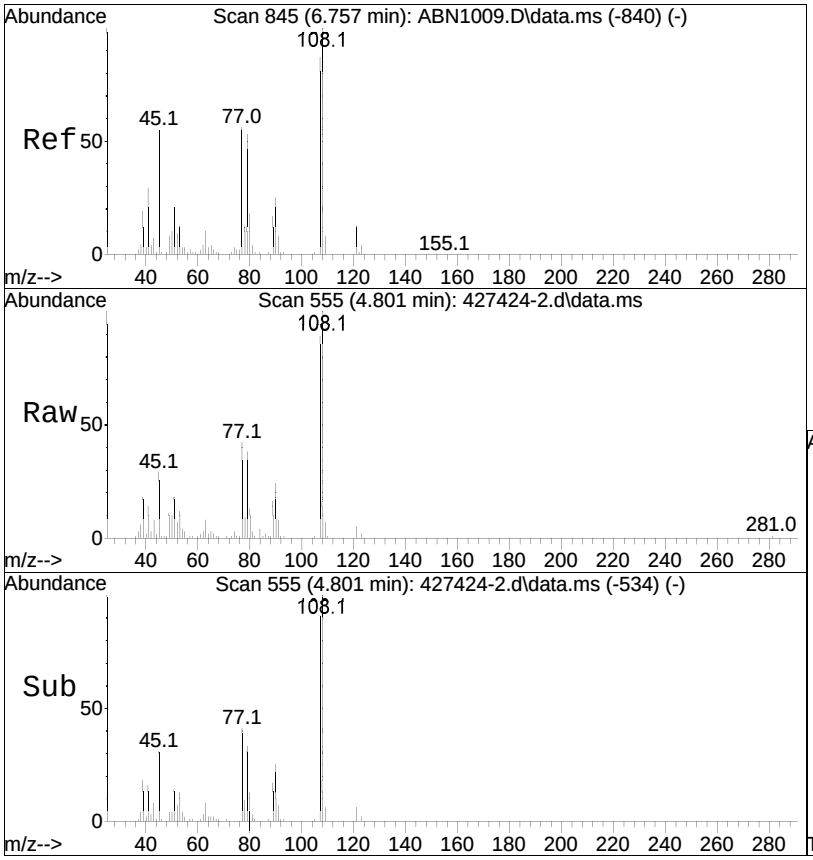


#8
Phenol
Concen: 2.45 ug/ml
RT: 4.201 min Scan# 453
Delta R.T. 0.000 min
Lab File: 427424-2.d
Acq: 28 Oct 2020 11:47 pm

Tgt Ion: 94 Resp: 29344

Ion	Ratio	Lower	Upper
94	100		
65	43.1	26.0	39.0#
66	69.7	33.8	50.8#

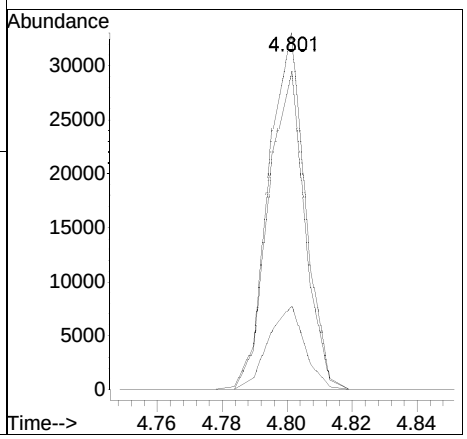


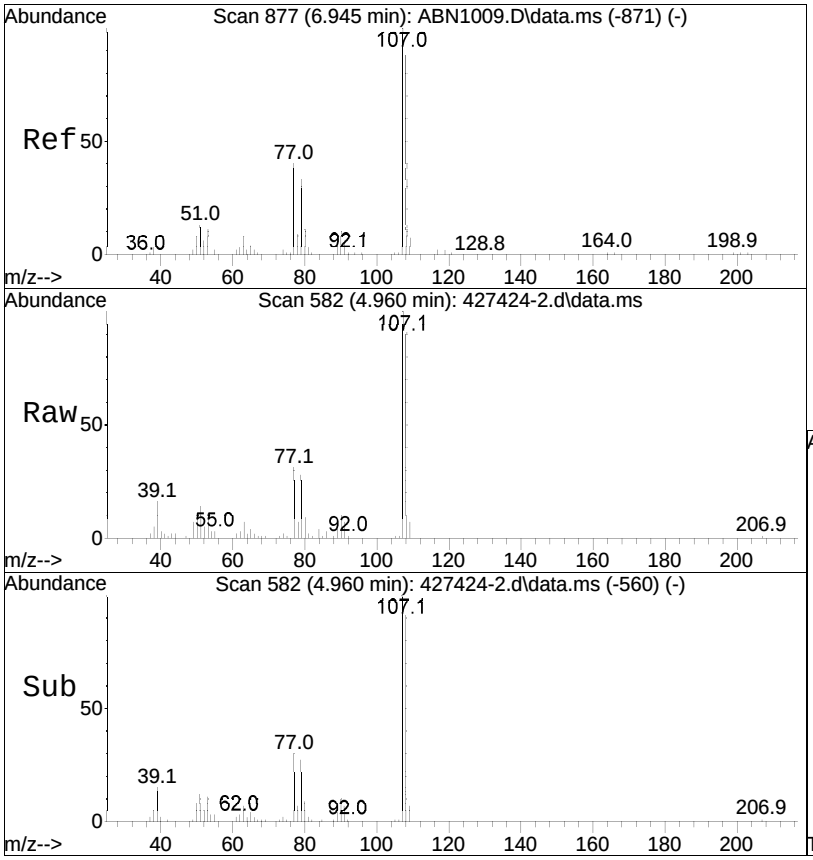


#15
2-Methylphenol
Concen: 3.14 ug/ml
RT: 4.801 min Scan# 555
Delta R.T. 0.000 min
Lab File: 427424-2.d
Acq: 28 Oct 2020 11:47 pm

Tgt Ion:108 Resp: 25893

Ion	Ratio	Lower	Upper
108	100		
107	88.4	70.7	106.1
90	23.2	18.7	28.1

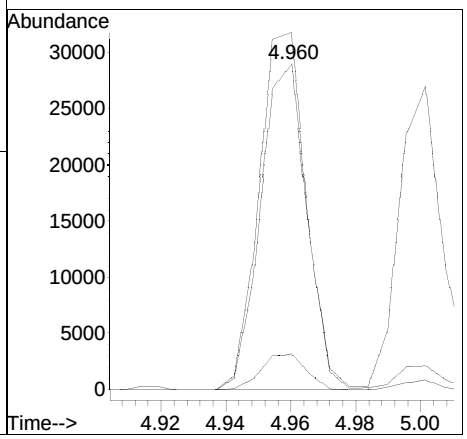


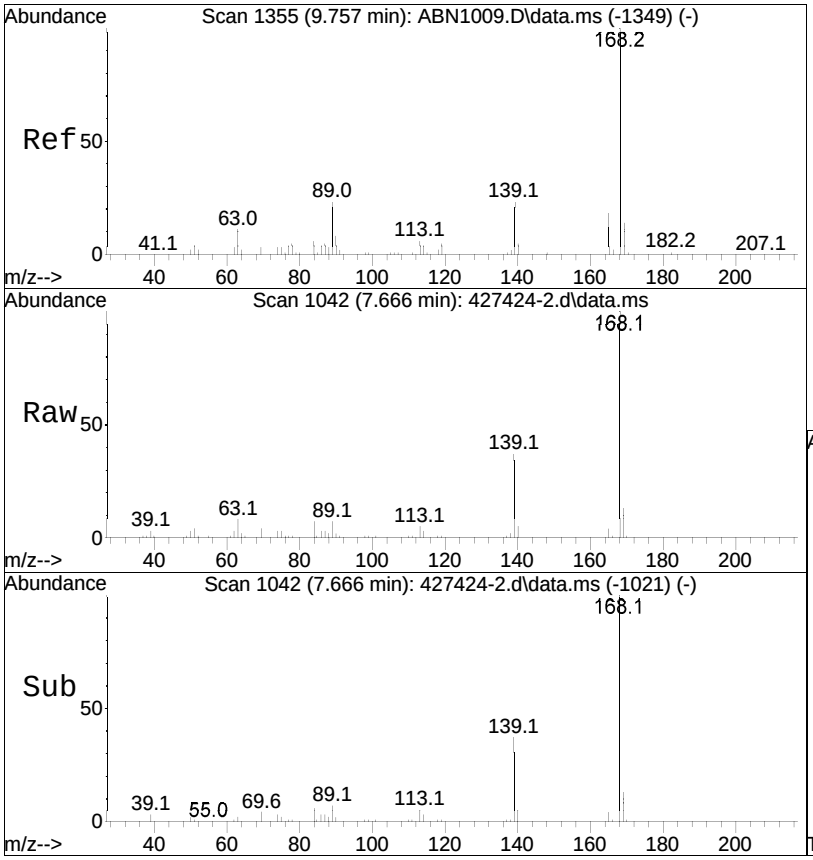


#18
3-Methylphenol/4-Methylphenol
Concen: 3.29 ug/ml
RT: 4.960 min Scan# 582
Delta R.T. 0.006 min
Lab File: 427424-2.d
Acq: 28 Oct 2020 11:47 pm

Tgt Ion:108 Resp: 28751

Ion	Ratio	Lower	Upper
108	100		
107	112.0	88.6	132.8
90	10.9	8.8	13.2

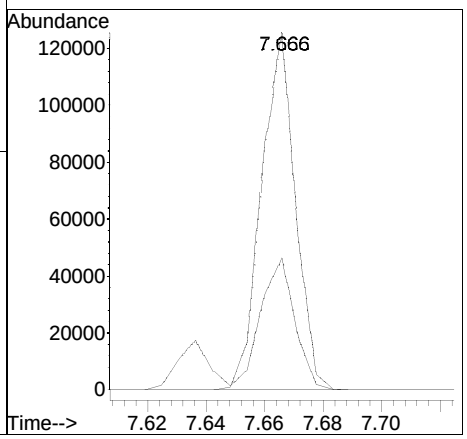




#66
Dibenzofuran
Concen: 3.48 ug/ml
RT: 7.666 min Scan# 1042
Delta R.T. 0.000 min
Lab File: 427424-2.d
Acq: 28 Oct 2020 11:47 pm

Tgt Ion:168 Resp: 99854

Ion	Ratio	Lower	Upper
168	100		
139	37.6	31.4	47.2



Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201028lvi\
Data File : 427424-3.d
Acq On : 29 Oct 2020 12:10 am
Operator : SV124:jg
Sample : WG1427424-3,32,,NY-LVI,ASK+
Misc : WG1426005,WG1427424,ICAL17255
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 29 13:34:49 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 13:28:14 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201028lvi\ABN1028.d
: 2 - I:\8270\SV124\201028lvi\ADP1028.d
: 3 - I:\8270\SV124\201028lvi\AP91028.d
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.507	150	58838M6	4.000	ug/ml	0.00
Standard Area 1 = 71509			Recovery = 82.28%			
27) IS2_1,4-Dichlorobenzen...	4.507	150	58838M6	4.000	ug/ml	0.00
Standard Area 3 = 63930			Recovery = 92.04%			
32) IS3_1,4-Dichlorobenzen...	4.507	150	58838M6	4.000	ug/ml	0.00
Standard Area 2 = 59319			Recovery = 99.19%			
34) IS1_Naphthalene-d8	5.754	136	141182	4.000	ug/ml	0.00
Standard Area 1 = 170374			Recovery = 82.87%			
54) IS2_Naphthalene-d8	5.754	136	141182	4.000	ug/ml	0.00
Standard Area 3 = 162378			Recovery = 86.95%			
62) IS1_Acenaphthene-d10	7.466	164	74728	4.000	ug/ml	0.00
Standard Area 1 = 94617			Recovery = 78.98%			
82) IS2_Acenaphthene-d10	7.466	164	74728	4.000	ug/ml	0.00
Standard Area 3 = 87701			Recovery = 85.21%			
85) IS3_Acenaphthene-d10	7.466	164	74728	4.000	ug/ml	0.00
Standard Area 2 = 75844			Recovery = 98.53%			
87) IS1_Phenanthrene-d10	8.901	188	146378	4.000	ug/ml	0.00
Standard Area 1 = 179611			Recovery = 81.50%			
99) IS3_Phenanthrene-d10	8.901	188	146378	4.000	ug/ml	0.00
Standard Area 2 = 154615			Recovery = 94.67%			
103) IS1_Chrysene-d12	11.530	240	137065	4.000	ug/ml	0.00
Standard Area 1 = 190256			Recovery = 72.04%			
112) IS1_Perylene-d12	12.995	264	142855	4.000	ug/ml	0.00
Standard Area 1 = 196697			Recovery = 72.63%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.219	112	29742	3.124	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 62.48%			
7) Phenol-d6	4.190	99	31585	2.737	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 54.74%			
19) Nitrobenzene-d5	5.060	82	21046	1.882	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 75.28%			
45) 2-Fluorobiphenyl	6.836	172	52218	1.835	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 73.40%			
78) 2,4,6-Tribromophenol	8.236	330	18606	4.561	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 91.22%			

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201028lvi\
Data File : 427424-3.d
Acq On : 29 Oct 2020 12:10 am
Operator : SV124:jg
Sample : WG1427424-3,32,,NY-LVI,ASK+
Misc : WG1426005,WG1427424,ICAL17255
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 29 13:34:49 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 13:28:14 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV124\201028lvi\ABN1028.d
: 2 - I:\8270\SV124\201028lvi\ADP1028.d
: 3 - I:\8270\SV124\201028lvi\AP91028.d
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 4-Terphenyl-d14	10.489	244	66537	1.925	ug/ml	0.00

Spiked Amount 2.500 Range 30 - 130 Recovery = 77.00%

Target Compounds						Qvalue
8) Phenol	4.207	94	38878	2.768	ug/ml#	81
15) 2-Methylphenol	4.801	108	35161	3.643	ug/ml	97
18) 3-Methylphenol/4-Methy...	4.960	108	38345	3.746	ug/ml	99
66) Dibenzofuran	7.666	168	130448	3.841	ug/ml	96

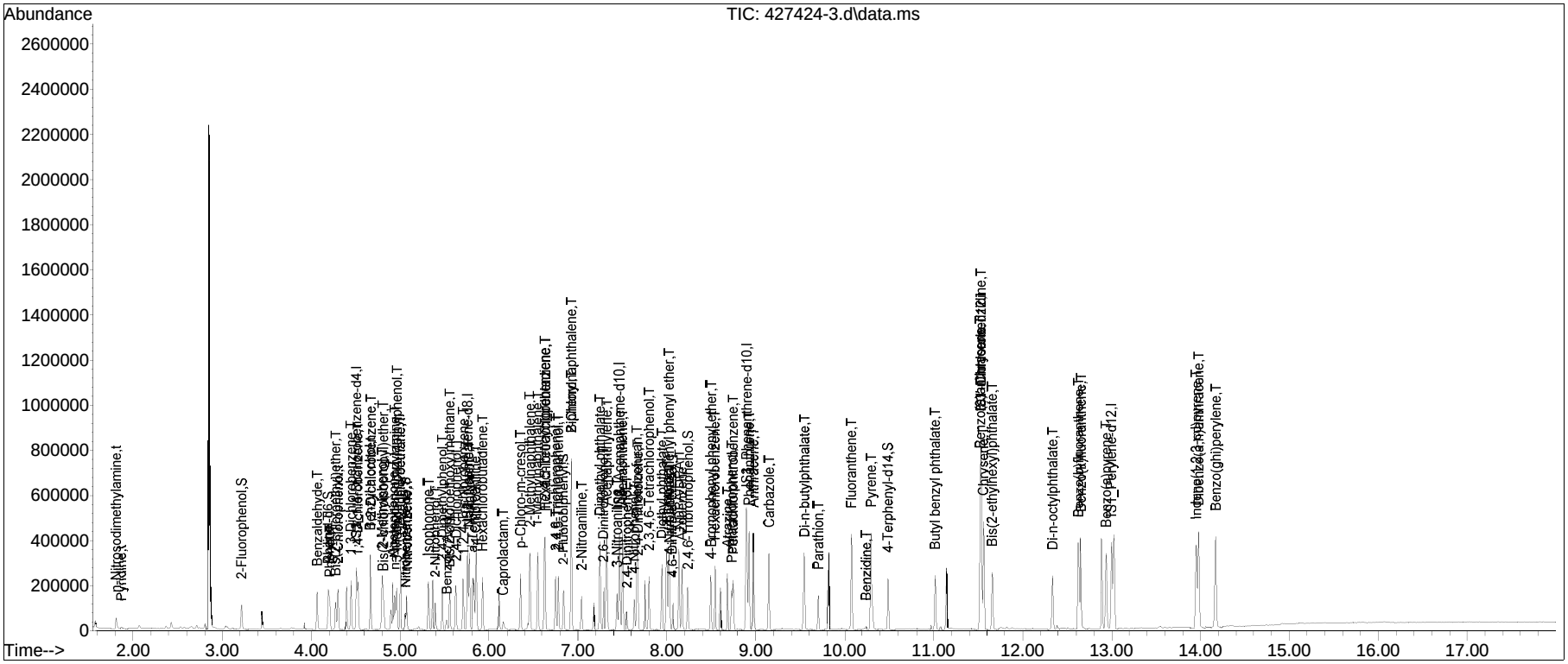
(#) = qualifier out of range (m) = manual integration (+) = signals summed

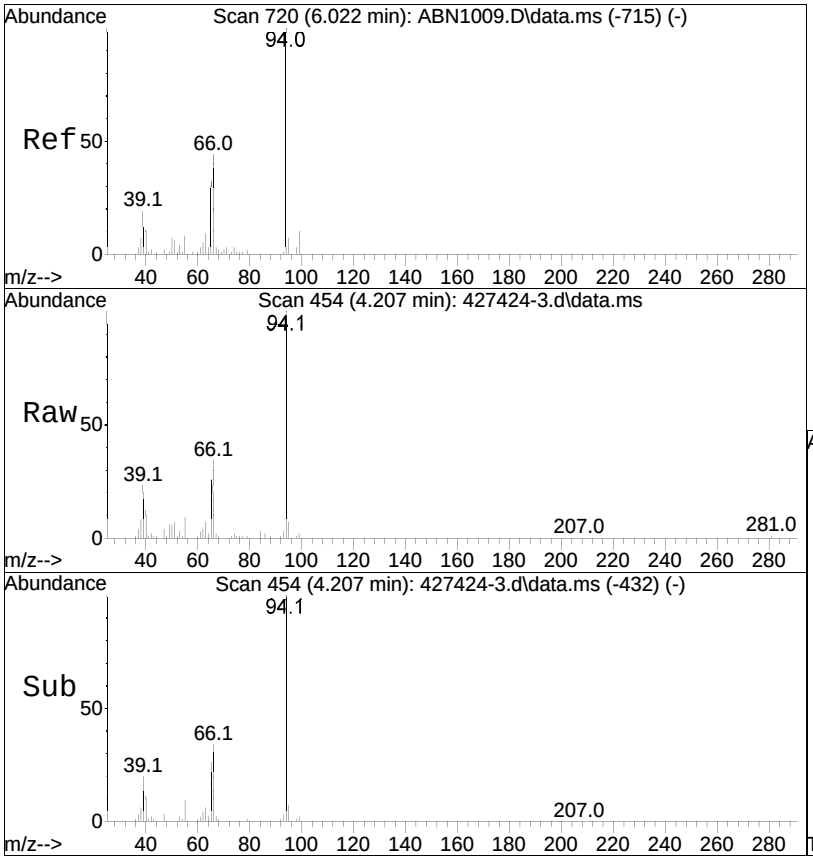
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV124\201028lvi\
Data File : 427424-3.d
Acq On : 29 Oct 2020 12:10 am
Operator : SV124:jg
Sample : WG1427424-3,32,,NY-LVI,ASK+
Misc : WG1426005,WG1427424,ICAL17255
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 29 13:34:49 2020
Quant Method : I:\8270\SV124\201028lvi\FS201012SV124.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 13:28:14 2020
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MAlvi\AP91028.d•

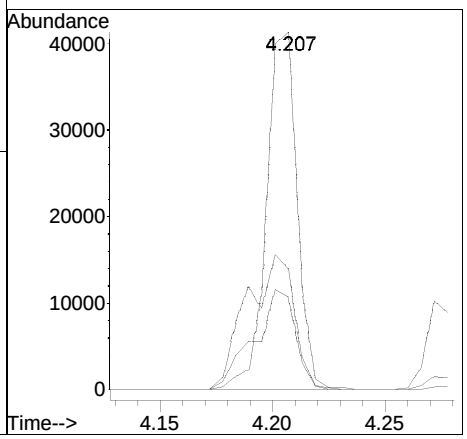


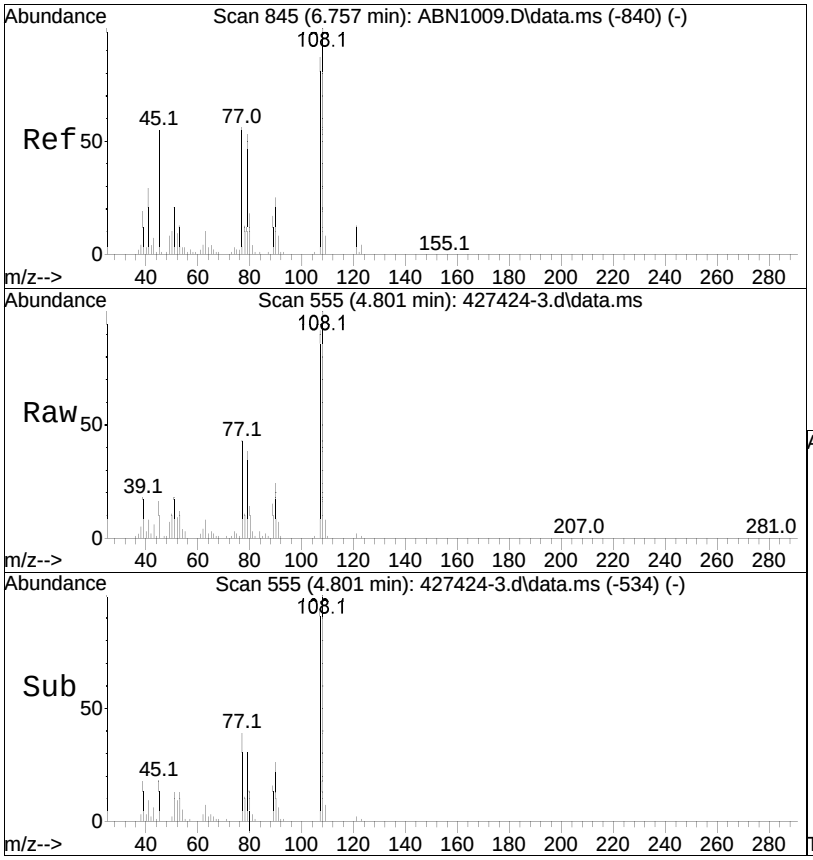


#8
Phenol
Concen: 2.77 ug/ml
RT: 4.207 min Scan# 454
Delta R.T. 0.006 min
Lab File: 427424-3.d
Acq: 29 Oct 2020 12:10 am

Tgt Ion: 94 Resp: 38878

Ion	Ratio	Lower	Upper
94	100		
65	38.0	26.0	39.0
66	58.3	33.8	50.8#

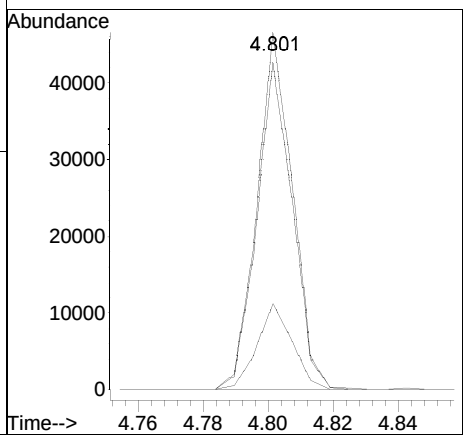


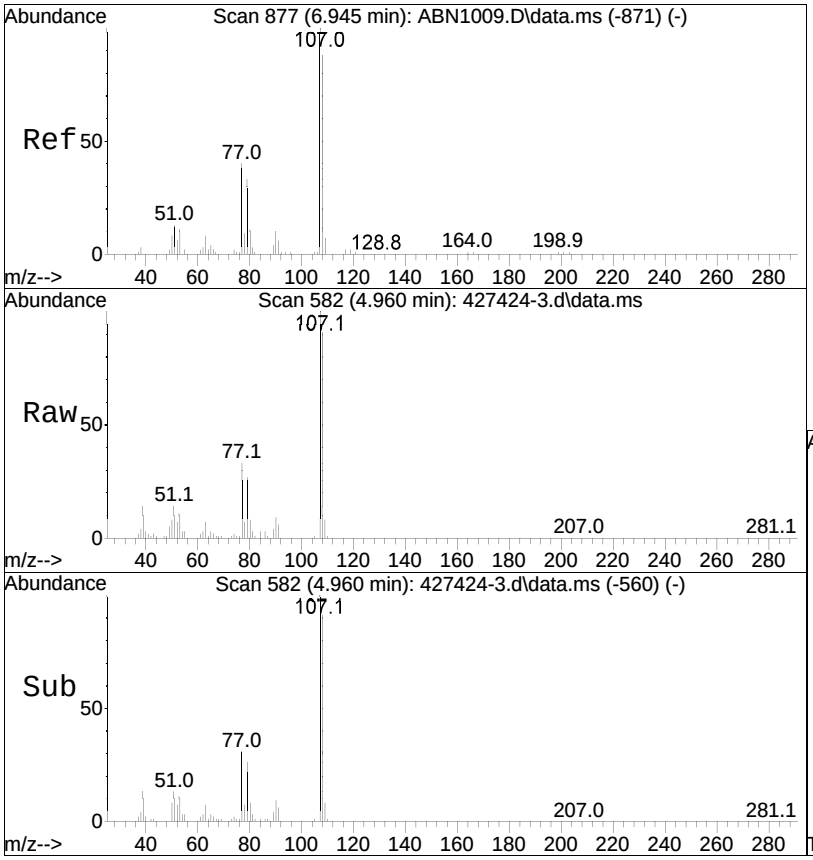


#15
2-Methylphenol
Concen: 3.64 ug/ml
RT: 4.801 min Scan# 555
Delta R.T. -0.000 min
Lab File: 427424-3.d
Acq: 29 Oct 2020 12:10 am

Tgt Ion:108 Resp: 35161

Ion	Ratio	Lower	Upper
108	100		
107	91.9	70.7	106.1
90	23.9	18.7	28.1

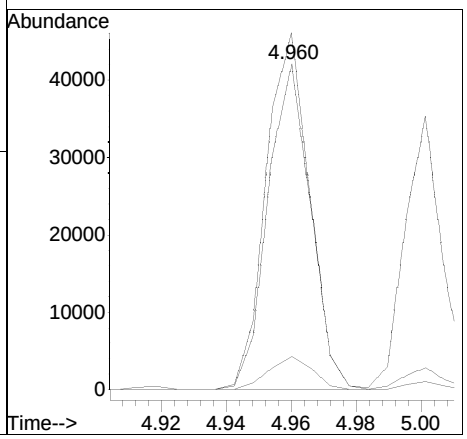


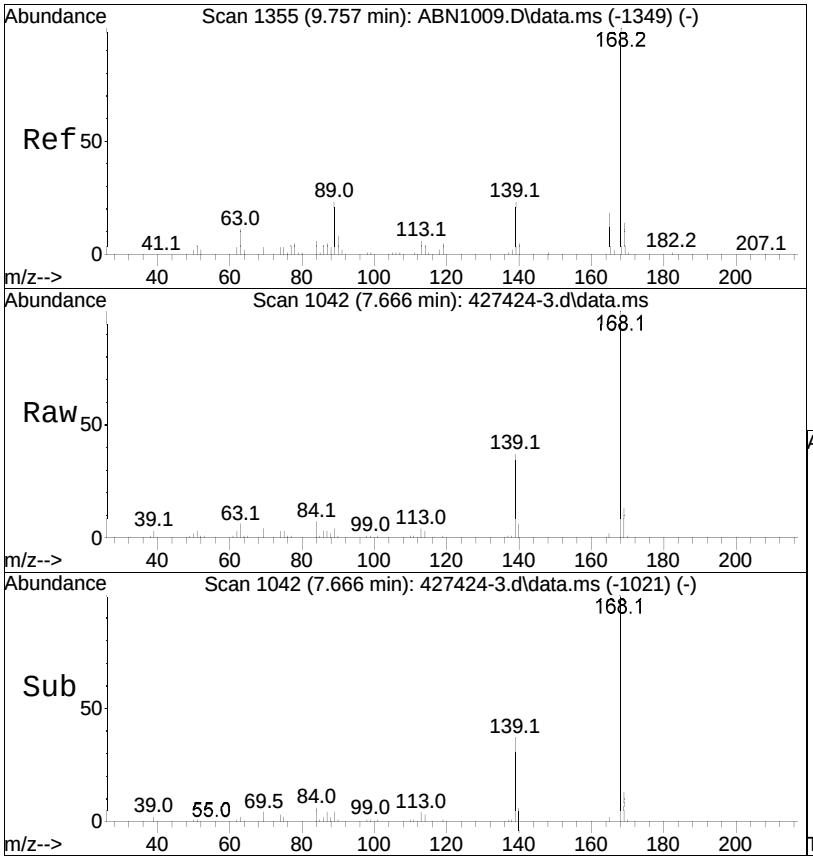


#18
3-Methylphenol/4-Methylphenol
Concen: 3.75 ug/ml
RT: 4.960 min Scan# 582
Delta R.T. 0.006 min
Lab File: 427424-3.d
Acq: 29 Oct 2020 12:10 am

Tgt Ion:108 Resp: 38345

Ion	Ratio	Lower	Upper
108	100		
107	112.1	88.6	132.8
90	10.3	8.8	13.2

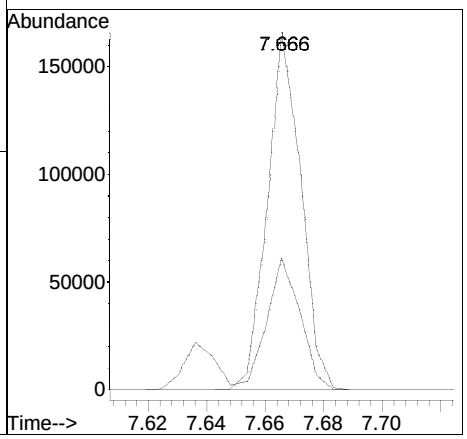




#66
Dibenzofuran
Concen: 3.84 ug/ml
RT: 7.666 min Scan# 1042
Delta R.T. -0.000 min
Lab File: 427424-3.d
Acq: 29 Oct 2020 12:10 am

Tgt Ion:168 Resp: 130448

Ion	Ratio	Lower	Upper
168	100		
139	37.0	31.4	47.2



Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jan 05 2021, 12:42 pm

Work Group: WG1427424 for Department: 2 Organic Preparation

Created: 28-OCT-20 Due: Operator: SLRD

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2046533-06	RXMW-209	C	NYTCL-8270-LVI	WATER	DONE	U	1102	1102	S0	Amber-A.25
L2046625-01	GW-1	C	NYTCL-8270-LVI	WATER	DONE	U	1102	1030	1C	Amber-A.25
L2046625-02	GW-2	C	NYTCL-8270-LVI	WATER	DONE	U	1102	1030	1C	Amber-A.25
L2046625-03	GW-3	C	NYTCL-8270-LVI	WATER	DONE	U	1102	1030	1C	Amber-A.25
L2046790-01	MW-1	C	NYTCL-8270-LVI	WATER	DONE	U	1103	1030	1C	Amber-A.25
L2046790-02	MW-2	C	NYTCL-8270-LVI	WATER	DONE	U	1103	1030	1C	Amber-A.25
L2046790-03	MW-3	C	NYTCL-8270-LVI	WATER	DONE	U	1103	1030	1C	Amber-A.25
L2046790-04	TWP-1	C	NYTCL-8270-LVI	WATER	DONE	U	1103	1030	1C	Amber-A.25
L2046825-01	MW-01	C	NYTCL-8270-LVI	WATER	DONE	U	1103	1103	S0	Amber-A.25
L2046825-02	MW-02	C	NYTCL-8270-LVI	WATER	DONE	U	1103	1103	S0	Amber-A.25
L2046825-03	MW-03	C	NYTCL-8270-LVI	WATER	DONE	U	1103	1103	S0	Amber-A.25
L2046825-04	MW-04	C	NYTCL-8270-LVI	WATER	DONE	U	1103	1103	S0	Amber-A.25
L2046825-05	MW-05	C	NYTCL-8270-LVI	WATER	DONE	U	1103	1103	S0	Amber-A.25
L2046825-06	DUP001	C	NYTCL-8270-LVI	WATER	DONE	U	1103	1103	S0	Amber-A.25
L2047162-01	GW-1	C	NYTCL-8270-LVI	WATER	DONE	U	1104	1102	1C	Amber-A.25
L2047162-02	GW-2	C	NYTCL-8270-LVI	WATER	DONE	U	1104	1102	1C	Amber-A.25
L2047162-03	GW-3	C	NYTCL-8270-LVI	WATER	DONE	U	1104	1102	1C	Amber-A.25
WG1427424-1	Laboratory Method Bl	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1427424-2	Laboratory Control S	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1427424-3	LCS Duplicate	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1427424-4	Matrix Spike	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1427424-5	Matrix Spike Duplica	S	NYTCL-8270-LVI	WATER	DONE	U				

Comments:

WG1427424-3	WG1427424-2
WG1427424-4	L2046825-05
WG1427424-5	L2046825-05

Analysis log File

Total Files Reported in Log : 39
Log Generated From Directory: I:\8270\SV124\201012ical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	Tune1.d	8270LVIM.M	TUNE	wg1422524,,	10/12/2020 2:11 pm
2	ABNL10.d	8270LVIM.M	IL1,32,,ABNL50 #8947	wg1422524,,	10/12/2020 2:34 pm
3	ABNL9.d	8270LVIM.M	IL2,32,,ABNL35 #8956	wg1422524,,	10/12/2020 2:57 pm
4	ABNL8.d	8270LVIM.M	IL3,32,,ABNL15 #8955	wg1422524,,	10/12/2020 3:20 pm
5	ABNL7.d	8270LVIM.M	IL4,32,,ABNL10 #8954	wg1422524,,	10/12/2020 3:43 pm
6	ABNL6.d	8270LVIM.M	IL5,32,,ABNL5 #8953	wg1422524,,	10/12/2020 4:06 pm
7	ABNL5.d	8270LVIM.M	IL6,32,,ABNL3 #8952	wg1422524,,	10/12/2020 4:29 pm
8	ABNL4.d	8270LVIM.M	IL7,32,,ABNL2 #8951	wg1422524,,	10/12/2020 4:53 pm
9	ABNL3.d	8270LVIM.M	IL8,32,,ABNL1 #8950	wg1422524,,	10/12/2020 5:16 pm
10	ABNL2.d	8270LVIM.M	IL9,32,,ABNL0.4 #8949	wg1422524,,	10/12/2020 5:39 pm
11	ABNL1.d	8270LVIM.M	IL10,32,,ABNL0.2 #8948	wg1422524,,	10/12/2020 6:02 pm
12	AP9L10.d	8270LVIM.M	IL1,32,,AP9L50 #8958	wg1422524,,	10/12/2020 6:25 pm
13	AP9L9.d	8270LVIM.M	IL2,32,,AP9L35 #8967	wg1422524,,	10/12/2020 6:48 pm
14	AP9L8.d	8270LVIM.M	IL3,32,,AP9L15 #8966	wg1422524,,	10/12/2020 7:12 pm
15	AP9L7.d	8270LVIM.M	IL4,32,,AP9L10 #8965	wg1422524,,	10/12/2020 7:35 pm
16	AP9L6.d	8270LVIM.M	IL5,32,,AP9L5 #8964	wg1422524,,	10/12/2020 7:58 pm
17	AP9L5.d	8270LVIM.M	IL6,32,,AP9L3 #8963	wg1422524,,	10/12/2020 8:22 pm
18	AP9L4.d	8270LVIM.M	IL7,32,,AP9L2 #8962	wg1422524,,	10/12/2020 8:45 pm
19	AP9L3.d	8270LVIM.M	IL8,32,,AP9L1 #8961	wg1422524,,	10/12/2020 9:08 pm
20	AP9L2.d	8270LVIM.M	IL9,32,,AP9L0.4 #8960	wg1422524,,	10/12/2020 9:31 pm
21	AP9L1.d	8270LVIM.M	IL10,32,,AP9L0.2 #8959	wg1422524,,	10/12/2020 9:55 pm
22	ABNICV.d	8270LVIM.M	CQICV1,32,,ABNICV #8979		10/12/2020 10:18 pm
23	AP9ICV.d	8270LVIM.M	CQICV2,32,,AP9ICV #8980	wg1422524,,	10/12/2020 10:41 pm
24	Tune2.d	8270LVIM.M	TUNE	wg1422524,,	10/12/2020 11:04 pm
25	ADPL10.d	8270LVIM.M	IL1,32,,ADPL50 #8969	wg1422524,,	10/12/2020 11:27 pm
26	ADPL9.d	8270LVIM.M	IL2,32,,ADPL35 #8978	wg1422524,,	10/12/2020 11:51 pm
27	ADPL8.d	8270LVIM.M	IL3,32,,ADPL15 #8977	wg1422524,,	10/13/2020 12:14 am
28	ADPL7.d	8270LVIM.M	IL4,32,,ADPL10 #8976	wg1422524,,	10/13/2020 12:37 am
29	ADPL6.d	8270LVIM.M	IL5,32,,ADPL5 #8975	wg1422524,,	10/13/2020 1:00 am
30	ADPL5.d	8270LVIM.M	IL6,32,,ADPL3 #8974	wg1422524,,	10/13/2020 1:23 am
31	ADPL4.d	8270LVIM.M	IL7,32,,ADPL2 #8973	wg1422524,,	10/13/2020 1:46 am
32	ADPL3.d	8270LVIM.M	IL8,32,,ADPL1 #8972	wg1422524,,	10/13/2020 2:09 am
33	ADPL2.d	8270LVIM.M	IL9,32,,ADPL0.4 #8971	wg1422524,,	10/13/2020 2:32 am
34	ADPL1.d	8270LVIM.M	IL10,32,,ADPL0.2 #8970	wg1422524,,	10/13/2020 2:56 am
35	ADPICV.d	8270LVIM.M	CQICV3,32,,ADPICV #8981	wg1422524,,	10/13/2020 3:19 am
36	Blank1.d	8270LVIM.M	Instrument Blank	wg1422524,,	10/13/2020 3:42 am
37	Tune3.d	8270LVIM.M	TUNE	wg1422524,,	10/13/2020 3:41 pm
38	ABNICVa.d	8270LVIM.M	CQICV1,32,,ABNICV #8982	wg1422524,,	10/13/2020 6:48 pm
39	Blank2.d	8270LVIM.M	Instrument Blank	wg1422524,,	10/13/2020 7:12 pm

SeqLog 1.0 - (c) 2009 Abacus Database Applications

Sequence Name: C:\msdchem\1\sequence\201028lvi.s
Comment:
Operator: SV124:
Data Path: C:\msdchem\1\DATA\201028lvi\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

Sequence Barcode Options
(X) On Mismatch, Inject Anyway
( ) On Mismatch, Don't Inject
( ) Barcode Disabled

Line			Sample Name/Misc Info
1)	Sample	141	Deg1028 8270LVIM wg-1,32,,SV124 Dftpp
2)	Sample	142	ABN1028 8270LVIM wg-3,32,,ABN LVI Lot # 8879
3)	Sample	143	AP91028 8270LVIM wg-4,32,,AP9 LVI Lot # 8837
4)	Sample	144	ADP1028 8270LVIM wg-5,32,,ADP LVI Lot # 8938
5)	Sample	1	427424-1 8270LVIM wg1427424-1,32,,ny-lvi,ask
6)	Sample	2	427424-2 8270LVIM wg1427424-2,32,,ny-lvi,ask
7)	Sample	3	427424-3 8270LVIM wg1427424-3,32,,ny-lvi,ask
8)	Sample	4	46825-01 8270LVIM l2046825-01,32,,ny-lvi,ask
9)	Sample	5	46825-02 8270LVIM l2046825-02,32,,ny-lvi,ask
10)	Sample	6	46825-03 8270LVIM l2046825-03,32,,ny-lvi,ask
11)	Sample	7	46825-04 8270LVIM l2046825-04,32,,ny-lvi,ask
12)	Sample	8	427424-4 8270LVIM wg1427424-4,32,,ny-lvi,ask
13)	Sample	9	427424-5 8270LVIM wg1427424-5,32,,ny-lvi,ask
14)	Sample	10	46825-05 8270LVIM l2046825-05,32,,ny-lvi,p,ask
15)	Sample	11	46825-06 8270LVIM l2046825-06,32,,ny-lvi,ask
16)	Sample	12	46790-02 8270LVIM l2046790-02,32,,ny-lvi,ask
17)	Sample	13	46790-03 8270LVIM l2046790-03,32,,ny-lvi,ask
18)	Sample	14	46790-01 8270LVIM l2046790-01,32,,ny-lvi,ask
19)	Sample	15	46790-04 8270LVIM l2046790-04,32,,ny-lvi,ask
20)	Sample	16	46533-06 8270LVIM l2046533-06,32,,ny-lvi,ask
21)	Sample	17	46625-01 8270LVIM l2046625-01,32,,ny-lvi,ask
22)	Sample	18	46625-03 8270LVIM l2046625-03,32,,ny-lvi,ask
23)	Sample	19	46625-02 8270LVIM l2046625-02,32,,ny-lvi,ask

ORGANIC ELN REPORT

Workgroup: WG1427424

Prep Method: EPA 3510C
Solvent Type: DCM
Surrogate Type: ABN
Spike Type: ABN
Spike Verify by: SLRD
Lims Spikelot: 8270-LVI

Lot #: DZ 849
Lot #: 8941 04/02/21
Lot #: 8942 03/21/21,8943 03/24/21

Additional Reagents/Stds

H2SO4	A101020
Na2SO4	0000244889
NaOH	10NNaOH101620

Conc.Method: S-EVAP/N-EVAP
Solvent Type: DCM
Lot #: DZ849

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type:
Lot #:

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2046533-06 WATER	10/28/20 11:13	Samantha Deitzel	275	<2,>12	1		10/28/20 17:56	Eric Asamoah	1	M
L2046625-01 WATER	10/28/20 11:13	Samantha Deitzel	275	<2,>12	1		10/28/20 17:56	Eric Asamoah	1	M
L2046625-02 WATER	10/28/20 11:13	Samantha Deitzel	275	<2,>12	1		10/28/20 17:56	Eric Asamoah	1	M
L2046625-03 WATER	10/28/20 11:13	Samantha Deitzel	275	<2,>12	1		10/28/20 17:56	Eric Asamoah	1	M
L2046790-01 WATER	10/28/20 07:52	Samantha Deitzel	275	<2,>12	1		10/28/20 13:00	Eric Asamoah	1	M
L2046790-02 WATER	10/28/20 07:52	Samantha Deitzel	275	<2,>12	1		10/28/20 13:00	Eric Asamoah	1	M
L2046790-03 WATER	10/28/20 07:52	Samantha Deitzel	275	<2,>12	1		10/28/20 13:00	Eric Asamoah	1	M

Reported: 05-JAN-21 12:42 PM

ORGANIC ELN REPORT

Workgroup: WG1427424

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2046790-04 WATER	10/28/20 07:52	Samantha Deitzel	275	<2,>12	1		10/28/20 13:00	Eric Asamoah	1	M
L2046825-01 WATER	10/28/20 11:13	Samantha Deitzel	275	<2,>12	1		10/28/20 17:56	Eric Asamoah	1	M
L2046825-02 WATER	10/28/20 11:13	Samantha Deitzel	275	<2,>12	1		10/28/20 17:56	Eric Asamoah	1	M
L2046825-03 WATER	10/28/20 11:13	Samantha Deitzel	275	<2,>12	1		10/28/20 17:56	Eric Asamoah	1	M
L2046825-04 WATER	10/28/20 11:13	Samantha Deitzel	275	<2,>12	1		10/28/20 17:56	Eric Asamoah	1	M
L2046825-05 WATER	10/28/20 11:13	Samantha Deitzel	275	<2,>12	1		10/28/20 17:56	Eric Asamoah	1	M
L2046825-06 WATER	10/28/20 11:13	Samantha Deitzel	275	<2,>12	1		10/28/20 17:56	Eric Asamoah	1	M
L2047162-01 WATER	10/29/20 05:01	Francis Mbro-Menyah	275	<2,>12	1		10/29/20 09:52	Mark Gillespie	1	M
L2047162-02 WATER	10/29/20 05:01	Francis Mbro-Menyah	275	<2,>12	1		10/29/20 09:52	Mark Gillespie	1	M

Reported: 05-JAN-21 12:42 PM

ORGANIC ELN REPORT

Workgroup: WG1427424

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2047162-03 WATER	10/29/20 05:01	Francis Mbro-Menyah	275	<2,>12	1		10/29/20 09:52	Mark Gillespie	1	M
WG1427424-1 BLANK	10/28/20 07:52 **WG1427426**	Samantha Deitzel	275	<2,>12	1		10/28/20 13:00	Eric Asamoah	1	M
WG1427424-2 LCS	10/28/20 07:52	Samantha Deitzel	275	<2,>12	1	1	10/28/20 13:00	Eric Asamoah	1	M
WG1427424-3 LCSD	10/28/20 07:52	Samantha Deitzel	275	<2,>12	1	1	10/28/20 13:00	Eric Asamoah	1	M
WG1427424-4 MS	10/28/20 11:13	Samantha Deitzel	275	<2,>12	1	1	10/28/20 17:56	Eric Asamoah	1	M
WG1427424-5 MSD	10/28/20 11:13	Samantha Deitzel	275	<2,>12	1	1	10/28/20 17:56	Eric Asamoah	1	M

Reported: 05-JAN-21 12:42 PM

Semivolatiles Data
by Method 8270D-SIM

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Impact Environmental
Project Name: 13-12 BEACH CHANNEL DRIVE

Lab Number: L2046790
Project Number: 15209
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
MW-1 (L2046790-01)	45	36	61	71	58	82	0
MW-2 (L2046790-02)	46	40	64	75	59	92	0
MW-3 (L2046790-03)	58	45	78	91	83	111	0
TWP-1 (L2046790-04)	52	44	71	86	68	105	0
WG1427426-1BLANK	54	43	75	87	69	106	0
WG1427426-2LCS	56	47	76	84	82	103	0
WG1427426-3LCSD	58	49	79	89	84	108	0

QC LIMITS

(21-120) 2FP = 2-FLUOROPHENOL
(10-120) PHL = PHENOL-D6
(23-120) NBZ = NITROBENZENE-D5
(15-120) FBP = 2-FLUOROBIPHENYL
(10-120) TBP = 2,4,6-TRIBROMOPHENOL
(41-149) TPH = 4-TERPHENYL-D14

*** Values outside of QC limits**

FORM II NYTCL-8270-SIM-LVI

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Matrix	: WATER		
LCS Sample ID	: WG1427426-2 **Analysis Date** : 10/29/20 08:42	**File ID**	: 427426-2
LCSD Sample ID	: WG1427426-3 **Analysis Date** : 10/29/20 09:03	**File ID**	: 427426-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Acenaphthene	3.6	2.7	73	3.6	2.9	79	8	40-140	40
Fluoranthene	3.6	3.2	89	3.6	3.5	95	7	40-140	40
Naphthalene	3.6	2.6	70	3.6	2.7	74	6	40-140	40
Benzo(a)anthracene	3.6	2.9	81	3.6	3.2	88	8	40-140	40
Benzo(a)pyrene	3.6	3.1	84	3.6	3.4	94	11	40-140	40
Benzo(b)fluoranthene	3.6	3.0	83	3.6	3.2	87	5	40-140	40
Benzo(k)fluoranthene	3.6	3.3	91	3.6	3.5	95	4	40-140	40
Chrysene	3.6	3.1	86	3.6	3.3	91	6	40-140	40
Acenaphthylene	3.6	2.9	79	3.6	3.1	84	6	40-140	40
Anthracene	3.6	3.0	82	3.6	3.3	92	11	40-140	40
Benzo(ghi)perylene	3.6	3.3	91	3.6	3.4	94	3	40-140	40
Fluorene	3.6	2.9	79	3.6	3.1	85	7	40-140	40
Phenanthrene	3.6	2.9	80	3.6	3.1	85	6	40-140	40
Dibenzo(a,h)anthracene	3.6	3.4	93	3.6	3.7	102	9	40-140	40
Indeno(1,2,3-cd)pyrene	3.6	3.2	89	3.6	3.5	97	9	40-140	40
Pyrene	3.6	3.2	88	3.6	3.4	94	7	40-140	40
Pentachlorophenol	3.6	5.2	144 Q	3.6	5.1	141 Q	2	40-140	40
Hexachlorobenzene	3.6	2.7	74	3.6	2.9	79	7	40-140	40

Method Blank Summary
Form 4
Semivolatiles

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab Sample ID	: WG1427426-1	**Lab File ID**	: 427426-1
Instrument ID	: SV119	**Extraction Date**	: 10/28/20
Matrix	: WATER	**Analysis Date**	: 10/29/20 08:21
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1427426-2LCS	WG1427426-2	10/29/20 08:42
WG1427426-3LCSD	WG1427426-3	10/29/20 09:03
MW-1	L2046790-01	10/29/20 09:24
MW-2	L2046790-02	10/29/20 09:45
MW-3	L2046790-03	10/29/20 10:06
TWP-1	L2046790-04	10/29/20 11:30

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: SV119	**Analysis Date**	: 09/16/20 15:13
Tune Standard	: R1350516-1	**Tune File ID**	: Tune_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	37
68	Less than 2.0% of mass 69	0.5 (1.4)1
69		100
70	Less than 2.0% of mass 69	0 (0)1
127	10.0 - 80.0% of Base Peak	51.1
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	26.7
365	Greater than 1.0% of mass 198	3
441	Present, but less than 24% of mass 442	18.6
442	Base Peak, or >50% of mass 198	89.9
443	15.0 - 24.0% of mass 442	17.5 (19.5)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
IL1	R1350516-2	IL1	09/16/20 15:32
IL2	R1350516-3	IL2	09/16/20 15:52
IL3	R1350516-5	IL3	09/16/20 16:13
IL4	R1350516-6	IL4	09/16/20 16:33
IL5	R1350516-8	IL5	09/16/20 16:55
IL6	R1350516-7	IL6	09/16/20 17:17
IL7	R1350516-11	IL7	09/16/20 17:38
IL8	R1350516-10	IL8	09/16/20 17:59
IL9	R1350516-9	IL9	09/16/20 18:20
IL10	R1350516-4	IL10	09/16/20 18:42
ICV Quant Report	R1350516-12	ICV	09/16/20 19:04

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: SV119	**Analysis Date**	: 10/29/20 07:20
Tune Standard	: WG1427924-1	**Tune File ID**	: deg1029_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	40.3
68	Less than 2.0% of mass 69	0.5 (1.3)1
69		100
70	Less than 2.0% of mass 69	0 (0)1
127	10.0 - 80.0% of Base Peak	49.9
197	Less than 2.0% of mass 198	0.3
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	26.8
365	Greater than 1.0% of mass 198	2.8
441	Present, but less than 24% of mass 442	19.3
442	Base Peak, or >50% of mass 198	86.9
443	15.0 - 24.0% of mass 442	16.4 (18.9)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1427924-3CCAL	WG1427924-3	CCV1029	10/29/20 07:39
WG1427426-1BLANK	WG1427426-1	427426-1	10/29/20 08:21
WG1427426-2LCS	WG1427426-2	427426-2	10/29/20 08:42
WG1427426-3LCSD	WG1427426-3	427426-3	10/29/20 09:03
MW-1	L2046790-01	46790-01	10/29/20 09:24
MW-2	L2046790-02	46790-02	10/29/20 09:45
MW-3	L2046790-03	46790-03	10/29/20 10:06
TWP-1	L2046790-04	46790-04	10/29/20 11:30

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: SV119	**Analysis Date**	: 10/29/20 07:39:00
Sample No	: WG1427924-3	**Lab File ID**	: CCV1029

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1427924-3	22118	2.55	81355	3.34	49629	4.50
Upper Limit	44236	3.05	162710	3.84	99258	5.00
Lower Limit	11059	2.05	40678	2.84	24815	4.00
Sample ID						
WG1427426-1 BLANK	21657	2.54	78204	3.34	45608	4.50
WG1427426-2 LCS	22045	2.54	80683	3.34	47732	4.50
WG1427426-3 LCSD	23151	2.54	84241	3.34	49296	4.50
MW-1	22246	2.54	79664	3.34	46304	4.50
MW-2	22133	2.54	79526	3.34	47208	4.50
MW-3	22136	2.54	80360	3.34	47386	4.50
TWP-1	19848	2.54	70827	3.34	43077	4.50

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: SV119	**Analysis Date**	: 10/29/20 07:39:00
Sample No	: WG1427924-3	**Lab File ID**	: CCV1029

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1427924-3	107834	5.49	112549	7.28	113755	8.21
Upper Limit	215668	5.99	225098	7.78	227510	8.71
Lower Limit	53917	4.99	56275	6.78	56878	7.71
Sample ID						
WG1427426-1 BLANK	96827	5.49	94441	7.27	97789	8.21
WG1427426-2 LCS	99326	5.49	98271	7.28	97732	8.21
WG1427426-3 LCSD	102662	5.49	100647	7.27	101235	8.21
MW-1	98462	5.49	95533	7.28	101245	8.21
MW-2	98984	5.49	95688	7.27	99006	8.21
MW-3	100111	5.49	96322	7.27	98679	8.21
TWP-1	93070	5.49	91750	7.27	90471	8.21

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Date Created: 11/07/16
Created By: Jason Hebert
File: PM2970-1
Page: 1

EPA 8270D Low Level PAH (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	0.1	0.035	ug/l	37-111	40	37-111	40	40			
2-Chloronaphthalene	91-58-7	0.2	0.035	ug/l	40-140	40	40-140	40	40			
Fluoranthene	206-44-0	0.2	0.038	ug/l	40-140	40	40-140	40	40			
Hexachlorobutadiene	87-68-3	0.5	0.036	ug/l	40-140	40	40-140	40	40			
Naphthalene	91-20-3	0.2	0.043	ug/l	40-140	40	40-140	40	40			
Benzo(a)anthracene	56-55-3	0.2	0.016	ug/l	40-140	40	40-140	40	40			
Benzo(a)pyrene	50-32-8	0.2	0.039	ug/l	40-140	40	40-140	40	40			
Benzo(b)fluoranthene	205-99-2	0.2	0.016	ug/l	40-140	40	40-140	40	40			
Benzo(k)fluoranthene	207-08-9	0.2	0.042	ug/l	40-140	40	40-140	40	40			
Chrysene	218-01-9	0.2	0.038	ug/l	40-140	40	40-140	40	40			
Acenaphthylene	208-96-8	0.2	0.035	ug/l	40-140	40	40-140	40	40			
Anthracene	120-12-7	0.2	0.035	ug/l	40-140	40	40-140	40	40			
Benzo(ghi)perylene	191-24-2	0.2	0.042	ug/l	40-140	40	40-140	40	40			
Fluorene	86-73-7	0.2	0.037	ug/l	40-140	40	40-140	40	40			
Phenanthrene	85-01-8	0.2	0.015	ug/l	40-140	40	40-140	40	40			
Dibenzo(a,h)anthracene	53-70-3	0.2	0.039	ug/l	40-140	40	40-140	40	40			
Indeno(1,2,3-cd)Pyrene	193-39-5	0.2	0.04	ug/l	40-140	40	40-140	40	40			
Pyrene	129-00-0	0.2	0.04	ug/l	26-127	40	26-127	40	40			
1-Methylnaphthalene	90-12-0	0.2	0.041	ug/l	40-140	40	40-140	40	40			
2-Methylnaphthalene	91-57-6	0.2	0.045	ug/l	40-140	40	40-140	40	40			
Pentachlorophenol	87-86-5	0.8	0.22	ug/l	9-103	40	9-103	40	40			
Hexachlorobenzene	118-74-1	0.8	0.032	ug/l	40-140	40	40-140	40	40			
Hexachloroethane	67-72-1	0.8	0.03	ug/l	40-140	40	40-140	40	40			
2-Fluorophenol	*367-12-4*									*21-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*41-149*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/07/16
Created By: Jason Hebert
File: PM2971-1
Page: 1

EPA 8270D Low Level PAH (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	6.68	1.4028	ug/kg	40-140	50	40-140	50	50			
2-Chloronaphthalene	91-58-7	6.68	0.8684	ug/kg	40-140	50	40-140	50	50			
Fluoranthene	206-44-0	6.68	0.4676	ug/kg	40-140	50	40-140	50	50			
Hexachlorobutadiene	87-68-3	6.68	0.9352	ug/kg	34-107	50	40-140	50	50			
Naphthalene	91-20-3	6.68	1.2024	ug/kg	40-140	50	40-140	50	50			
Benzo(a)anthracene	56-55-3	6.68	0.6346	ug/kg	40-140	50	40-140	50	50			
Benzo(a)pyrene	50-32-8	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Benzo(b)fluoranthene	205-99-2	6.68	0.6346	ug/kg	40-140	50	40-140	50	50			
Benzo(k)fluoranthene	207-08-9	6.68	0.6012	ug/kg	40-140	50	40-140	50	50			
Chrysene	218-01-9	6.68	0.501	ug/kg	40-140	50	40-140	50	50			
Acenaphthylene	208-96-8	6.68	0.835	ug/kg	40-140	50	40-140	50	50			
Anthracene	120-12-7	6.68	0.5344	ug/kg	40-140	50	40-140	50	50			
Benzo(ghi)perylene	191-24-2	6.68	0.5678	ug/kg	40-140	50	40-140	50	50			
Fluorene	86-73-7	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Phenanthrene	85-01-8	6.68	0.5678	ug/kg	40-140	50	40-140	50	50			
Dibenzo(a,h)anthracene	53-70-3	6.68	0.668	ug/kg	40-140	50	40-140	50	50			
Indeno(1,2,3-cd)Pyrene	193-39-5	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Pyrene	129-00-0	6.68	0.4676	ug/kg	35-142	50	35-142	50	50			
1-Methylnaphthalene	90-12-0	6.68	1.0354	ug/kg	40-140	50	40-140	50	50			
2-Methylnaphthalene	91-57-6	6.68	1.9038	ug/kg	40-140	50	40-140	50	50			
Pentachlorophenol	87-86-5	26.72	2.9392	ug/kg	17-109	50	17-109	50	50			
Hexachlorobenzene	118-74-1	6.68	0.7014	ug/kg	40-140	50	40-140	50	50			
Hexachloroethane	67-72-1	6.68	1.2358	ug/kg	29-106	50	40-140	50	50			
2-Fluorophenol	*367-12-4*									*25-120*		
O-Terphenyl-MS	*84-15-1*									*40-140*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*30-120*		
2,4,6-Tribromophenol	*118-79-6*									*0-136*		
4-Terphenyl-d14	*1718-51-0*									*18-120*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Semivolatile Sample Data

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Impact Environmental	Lab Number	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	Project Number	: 15209
Lab ID	: L2046790-01	Date Collected	: 10/27/20 08:15
Client ID	: MW-1	Date Received	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	Date Analyzed	: 10/29/20 09:24
Sample Matrix	: WATER	Date Extracted	: 10/28/20
Analytical Method	: 1,8270D-SIM	Dilution Factor	: 1
Lab File ID	: 46790-01	Analyst	: DV
Sample Amount	: 275 ml	Instrument ID	: SV119
Extraction Method	: EPA 3510C	GC Column	: RXI-5SilM
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
83-32-9	Acenaphthene	ND	0.10	0.01	U
206-44-0	Fluoranthene	0.03	0.10	0.02	J
91-20-3	Naphthalene	ND	0.10	0.05	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	0.03	0.10	0.02	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	0.03	0.10	0.02	J
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Impact Environmental	Lab Number	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	Project Number	: 15209
Lab ID	: L2046790-02	Date Collected	: 10/27/20 09:30
Client ID	: MW-2	Date Received	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	Date Analyzed	: 10/29/20 09:45
Sample Matrix	: WATER	Date Extracted	: 10/28/20
Analytical Method	: 1,8270D-SIM	Dilution Factor	: 1
Lab File ID	: 46790-02	Analyst	: DV
Sample Amount	: 275 ml	Instrument ID	: SV119
Extraction Method	: EPA 3510C	GC Column	: RXI-5SilM
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
83-32-9	Acenaphthene	ND	0.10	0.01	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
91-20-3	Naphthalene	ND	0.10	0.05	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Impact Environmental	Lab Number	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	Project Number	: 15209
Lab ID	: L2046790-03	Date Collected	: 10/27/20 10:15
Client ID	: MW-3	Date Received	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	Date Analyzed	: 10/29/20 10:06
Sample Matrix	: WATER	Date Extracted	: 10/28/20
Analytical Method	: 1,8270D-SIM	Dilution Factor	: 1
Lab File ID	: 46790-03	Analyst	: DV
Sample Amount	: 275 ml	Instrument ID	: SV119
Extraction Method	: EPA 3510C	GC Column	: RXI-5SilM
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
83-32-9	Acenaphthene	ND	0.10	0.01	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
91-20-3	Naphthalene	ND	0.10	0.05	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	0.02	0.10	0.01	J
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	0.02	0.10	0.01	J
85-01-8	Phenanthrene	0.03	0.10	0.02	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	0.02	0.10	0.02	J
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-04	**Date Collected**	: 10/27/20 08:45
Client ID	: TWP-1	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 11:30
Sample Matrix	: WATER	**Date Extracted**	: 10/28/20
Analytical Method	: 1,8270D-SIM	**Dilution Factor**	: 1
Lab File ID	: 46790-04	**Analyst**	: DV
Sample Amount	: 275 ml	**Instrument ID**	: SV119
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
206-44-0	Fluoranthene	0.04	0.10	0.02	J
91-20-3	Naphthalene	ND	0.10	0.05	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	0.03	0.10	0.01	J
207-08-9	Benzo(k)fluoranthene	0.01	0.10	0.01	J
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	0.04	0.10	0.02	J
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	0.03	0.10	0.02	J
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Impact Environmental	Lab Number	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	Project Number	: 15209
Lab ID	: WG1427426-1	Date Collected	: NA
Client ID	: WG1427426-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 10/29/20 08:21
Sample Matrix	: WATER	Date Extracted	: 10/28/20
Analytical Method	: 1,8270D-SIM	Dilution Factor	: 1
Lab File ID	: 427426-1	Analyst	: DV
Sample Amount	: 275 ml	Instrument ID	: SV119
Extraction Method	: EPA 3510C	GC Column	: RXI-5SilM
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
83-32-9	Acenaphthene	ND	0.10	0.01	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
91-20-3	Naphthalene	ND	0.10	0.05	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\201029LVI\
Data File : 46790-01.D
Acq On : 29 Oct 2020 09:24 am
Operator : sv119:dv
Sample : L2046790-01,32,,nytcl,jjw
Misc : WG1427924,WG1427426,ical17132
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 29 13:02:42 2020
Quant Method : I:\8270SIM\sv119\201029LVI\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 08:09:20 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\201029LVI\ccv1029.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.542	152	22246	4000.000	ng/ml	0.00
Standard Area 1 = 22118			Recovery = 100.58%			
9) Naphthalene-d8	3.337	136	79664	4000.000	ng/ml	# 0.00
Standard Area 1 = 81355			Recovery = 97.92%			
17) Acenaphthene-d10	4.496	164	46304	4000.000	ng/ml	0.00
Standard Area 1 = 49629			Recovery = 93.30%			
21) Phenanthrene-d10	5.489	188	98462	4000.000	ng/ml	# 0.00
Standard Area 1 = 107834			Recovery = 91.31%			
30) Chrysene-d12	7.276	240	95533	4000.000	ng/ml	# 0.00
Standard Area 1 = 112549			Recovery = 84.88%			
34) Perylene-d12	8.208	264	101245	4000.000	ng/ml	0.00
Standard Area 1 = 113755			Recovery = 89.00%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.798	112	12301	2230.078	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 44601.56%#			
4) Phenol-d6	2.360	99	11703	1804.455	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 36089.10%#			
8) Nitrobenzene-d5	2.893	82	8763	1525.153	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 61006.12%#			
14) 2-Fluorobiphenyl	4.068	172	29625	1772.439	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 70897.56%#			
20) 2,4,6-Tribromophenol	5.029	330	7750	2921.206	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 58424.12%#			
29) 4-Terphenyl-d14	6.594	244	39243	2061.008	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 82440.32%#			
Target Compounds						Qvalue
10) Naphthalene	0.000		0	N.D. d		
16) Acenaphthylene	0.000		0	N.D. d		
18) Acenaphthene	0.000		0	N.D.		
19) Fluorene	0.000		0	N.D. d		
23) Hexachlorobenzene	0.000		0	N.D.		
24) Pentachlorophenol	0.000		0	N.D.		
25) Phenanthrene	5.502	178	232	8.561	ng/ml#	86
26) Anthracene	0.000		0	N.D. d		
27) Fluoranthene	6.306	202	257	8.861	ng/ml#	71
28) Pyrene	6.450	202	262M1	8.727	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\201029LVI\
Data File : 46790-01.D
Acq On : 29 Oct 2020 09:24 am
Operator : sv119:dv
Sample : L2046790-01,32,,nytcl,jjw
Misc : WG1427924,WG1427426,ical17132
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 29 13:02:42 2020
Quant Method : I:\8270SIM\sv119\201029LVI\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 08:09:20 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\201029LVI\ccv1029.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Benzo[a]anthracene	0.000		0	N.D.	d	
32) Chrysene	0.000		0	N.D.	d	
35) Benzo[b]fluoranthene	0.000		0	N.D.	d	
36) Benzo[k]fluoranthene	0.000		0	N.D.	d	
37) Benzo[a]pyrene	0.000		0	N.D.	d	
38) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
39) Dibenzo[a,h]anthracene	0.000		0	N.D.		
40) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

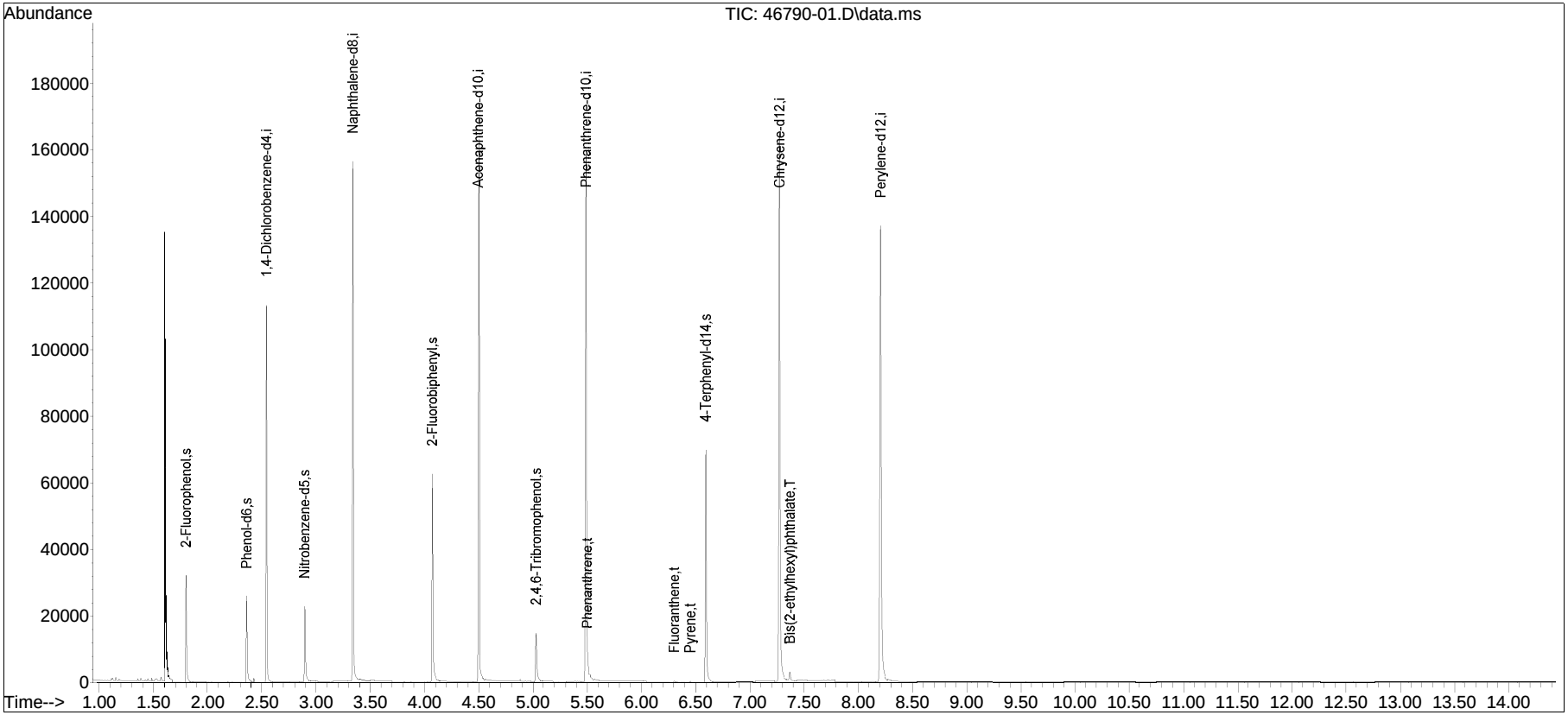
(#) = qualifier out of range (m) = manual integration (+) = signals summed

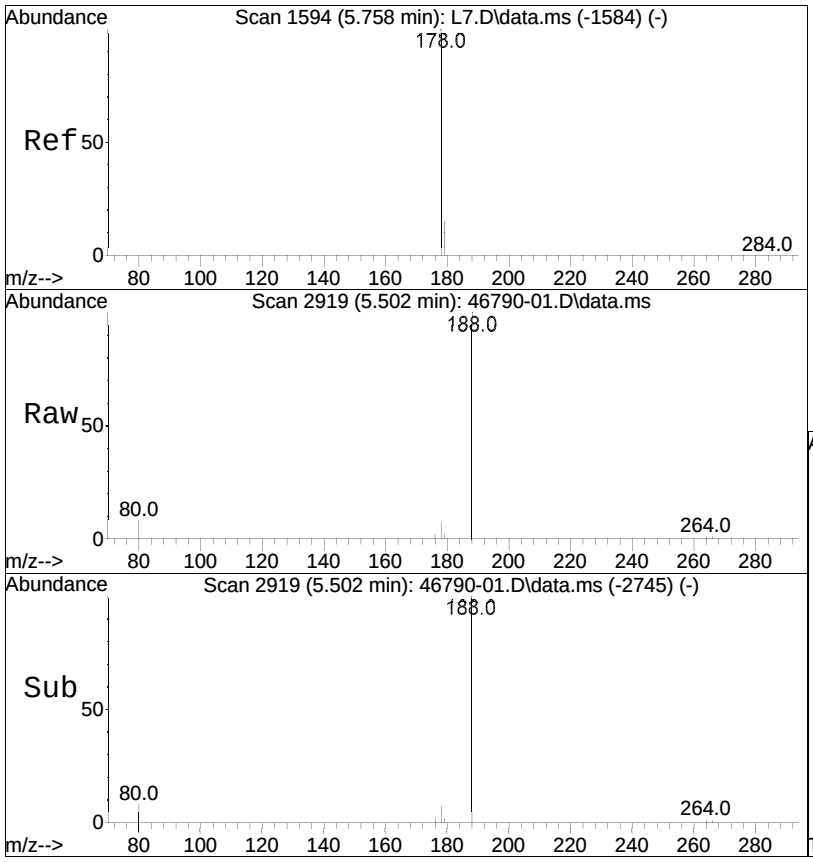
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\201029LVI\
Data File : 46790-01.D
Acq On : 29 Oct 2020 09:24 am
Operator : sv119:dv
Sample : L2046790-01,32,,nytcl,jjw
Misc : WG1427924,WG1427426,ical17132
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 29 13:02:42 2020
Quant Method : I:\8270SIM\sv119\201029LVI\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 08:09:20 2020
Response via : Initial Calibration

Sub List : Default - All compounds listed\ccv1029.D•

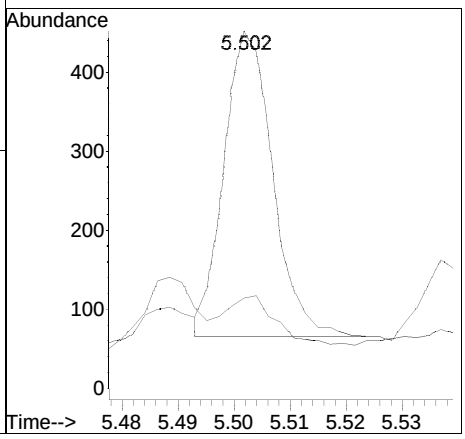


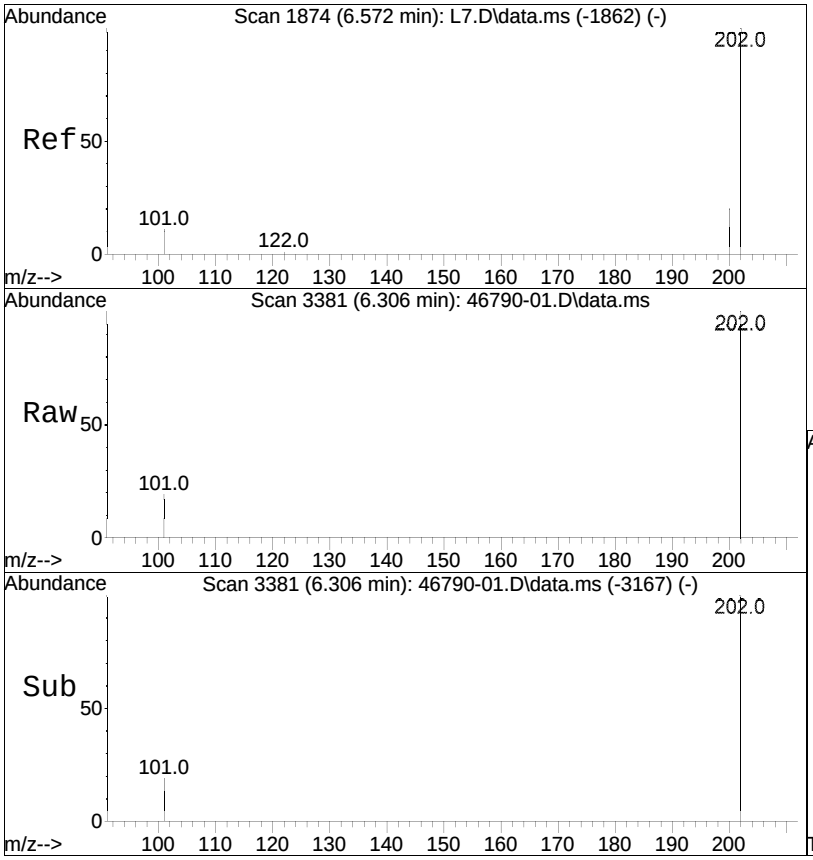


#25
Phenanthrene
Concen: 8.56 ng/ml
RT: 5.502 min Scan# 2919
Delta R.T. -0.002 min
Lab File: 46790-01.D
Acq: 29 Oct 2020 09:24 am

Tgt Ion:178 Resp: 232

Ion	Ratio	Lower	Upper
178	100		
179	21.6	12.5	18.7#

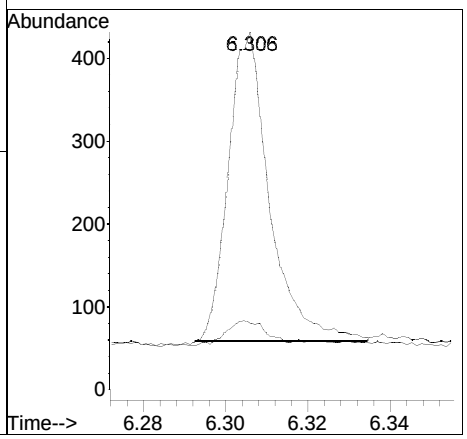


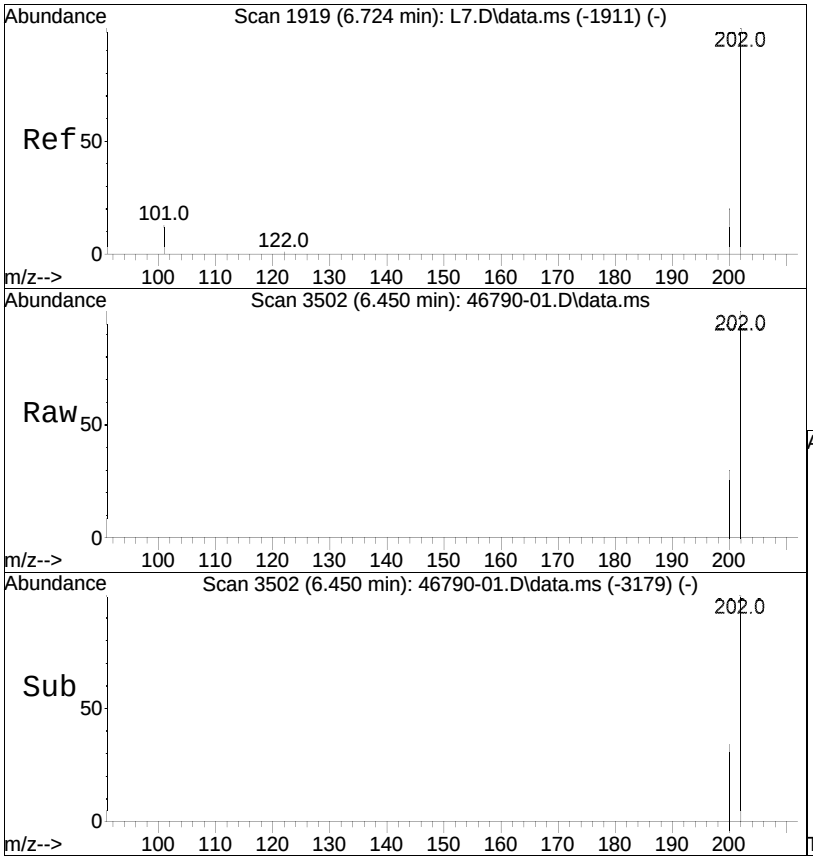


#27
Fluoranthene
Concen: 8.86 ng/ml
RT: 6.306 min Scan# 3381
Delta R.T. 0.000 min
Lab File: 46790-01.D
Acq: 29 Oct 2020 09:24 am

Tgt Ion:202 Resp: 257

Ion	Ratio	Lower	Upper
202	100		
101	0.0	8.9	13.3#

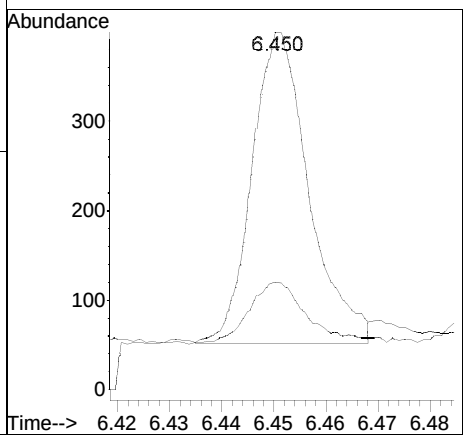




#28
Pyrene
Concen: 8.73 ng/ml M1
RT: 6.450 min Scan# 3502
Delta R.T. -0.002 min
Lab File: 46790-01.D
Acq: 29 Oct 2020 09:24 am

Tgt Ion:202 Resp: 262

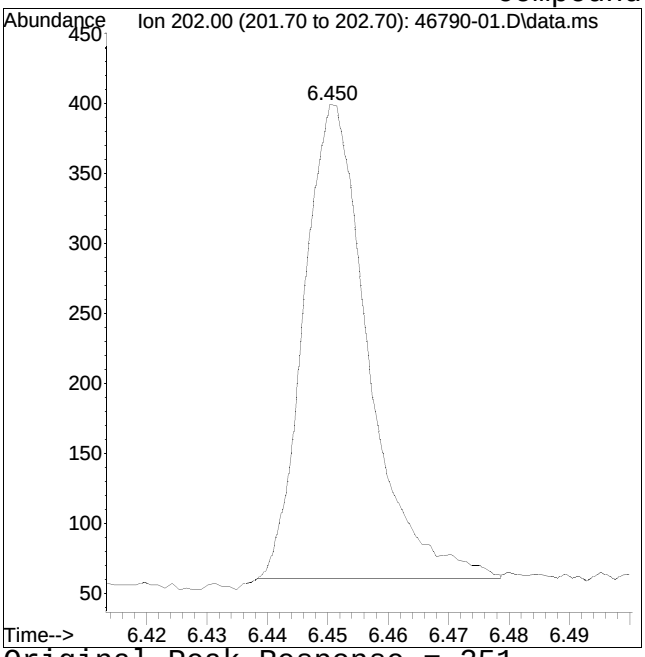
Ion	Ratio	Lower	Upper
202	100		
200	19.1	17.6	26.4



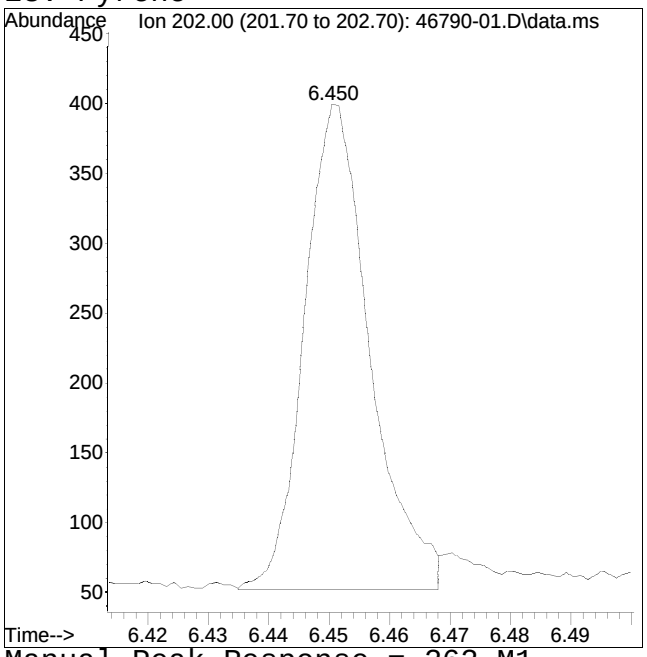
Manual Integration Report

Data Path : I:\8270SIM\sv119\201029LVIQMethod : SIM-LVI_200916_sv119.M
Data File : 46790-01.D Operator : sv119:dv
Date Inj'd : 10/29/2020 9:24 am Instrument : SV119
Sample : L2046790-01,32,,nytcl,jjw Quant Date : 10/29/2020 1:01 pm

Compound #28: Pyrene



Original Peak Response = 251



Manual Peak Response = 262 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\201029LVI\
Data File : 46790-02.D
Acq On : 29 Oct 2020 09:45 am
Operator : sv119:dv
Sample : L2046790-02,32,,nytcl,jjw
Misc : WG1427924,WG1427426,ical17132
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 29 13:04:17 2020
Quant Method : I:\8270SIM\sv119\201029LVI\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 08:09:20 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\201029LVI\ccv1029.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.542	152	22133	4000.000	ng/ml	0.00
Standard Area 1 = 22118			Recovery = 100.07%			
9) Naphthalene-d8	3.337	136	79526	4000.000	ng/ml	# 0.00
Standard Area 1 = 81355			Recovery = 97.75%			
17) Acenaphthene-d10	4.497	164	47208	4000.000	ng/ml	0.00
Standard Area 1 = 49629			Recovery = 95.12%			
21) Phenanthrene-d10	5.488	188	98984	4000.000	ng/ml	# 0.00
Standard Area 1 = 107834			Recovery = 91.79%			
30) Chrysene-d12	7.274	240	95688	4000.000	ng/ml	# 0.00
Standard Area 1 = 112549			Recovery = 85.02%			
34) Perylene-d12	8.208	264	99006	4000.000	ng/ml	0.00
Standard Area 1 = 113755			Recovery = 87.03%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.799	112	12515	2280.458	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 45609.16%#			
4) Phenol-d6	2.360	99	12778	1980.266	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 39605.32%#			
8) Nitrobenzene-d5	2.894	82	9078	1588.043	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 63521.72%#			
14) 2-Fluorobiphenyl	4.069	172	31147	1866.733	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 74669.32%#			
20) 2,4,6-Tribromophenol	5.029	330	7956	2941.428	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 58828.56%#			
29) 4-Terphenyl-d14	6.595	244	43976	2297.401	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 91896.04%#			
Target Compounds						Qvalue
10) Naphthalene	0.000		0	N.D.	d	
16) Acenaphthylene	0.000		0	N.D.		
18) Acenaphthene	0.000		0	N.D.	d	
19) Fluorene	0.000		0	N.D.		
23) Hexachlorobenzene	0.000		0	N.D.		
24) Pentachlorophenol	0.000		0	N.D.		
25) Phenanthrene	5.502	178	121	4.441	ng/ml#	37
26) Anthracene	0.000		0	N.D.	d	
27) Fluoranthene	0.000		0	N.D.	d	
28) Pyrene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\201029LVI\
Data File : 46790-02.D
Acq On : 29 Oct 2020 09:45 am
Operator : sv119:dv
Sample : L2046790-02,32,,nytcl,jjw
Misc : WG1427924,WG1427426,ical17132
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 29 13:04:17 2020
Quant Method : I:\8270SIM\sv119\201029LVI\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 08:09:20 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\201029LVI\ccv1029.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Benzo[a]anthracene	0.000		0	N.D.	d	
32) Chrysene	0.000		0	N.D.	d	
35) Benzo[b]fluoranthene	0.000		0	N.D.	d	
36) Benzo[k]fluoranthene	0.000		0	N.D.	d	
37) Benzo[a]pyrene	0.000		0	N.D.	d	
38) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
39) Dibenzo[a,h]anthracene	0.000		0	N.D.		
40) Benzo[g,h,i]perylene	0.000		0	N.D.		

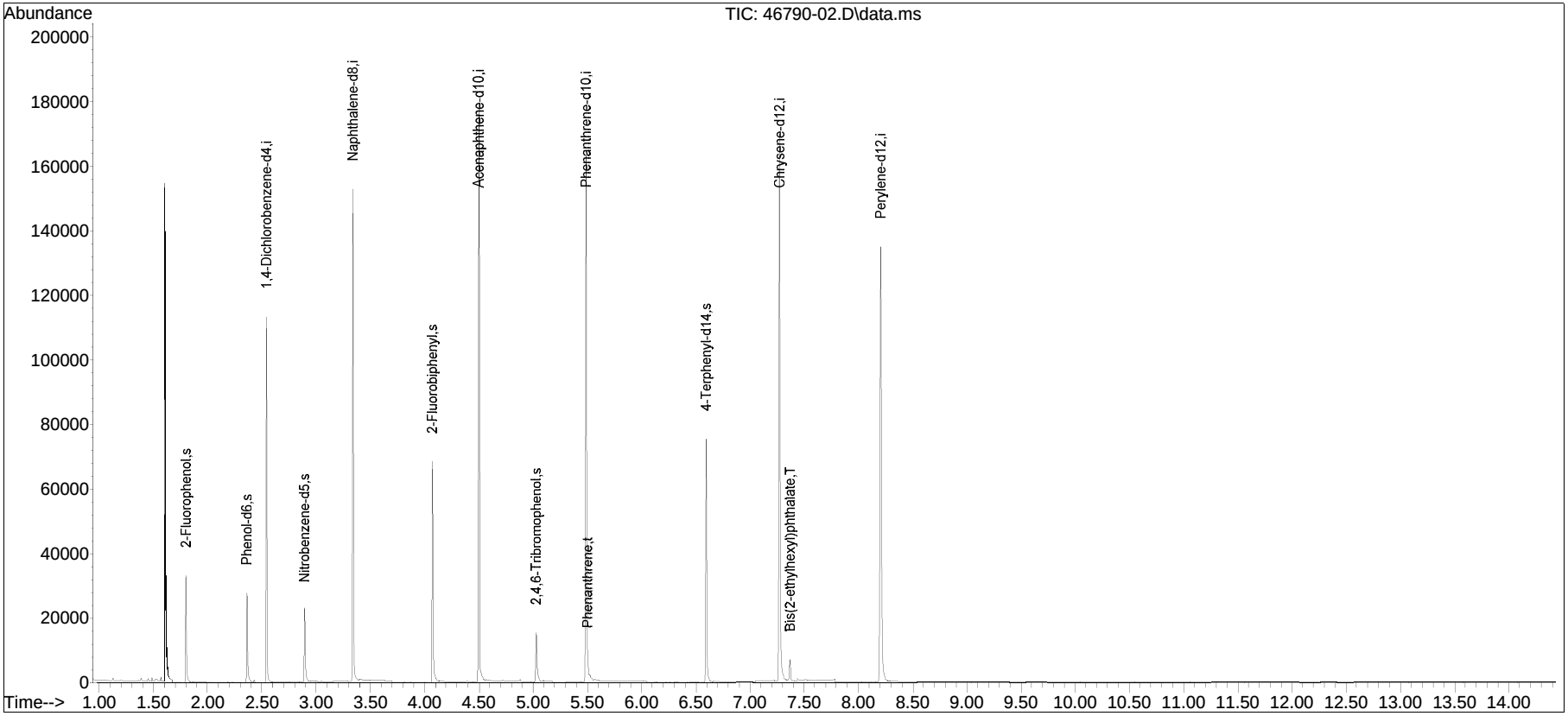
(#) = qualifier out of range (m) = manual integration (+) = signals summed

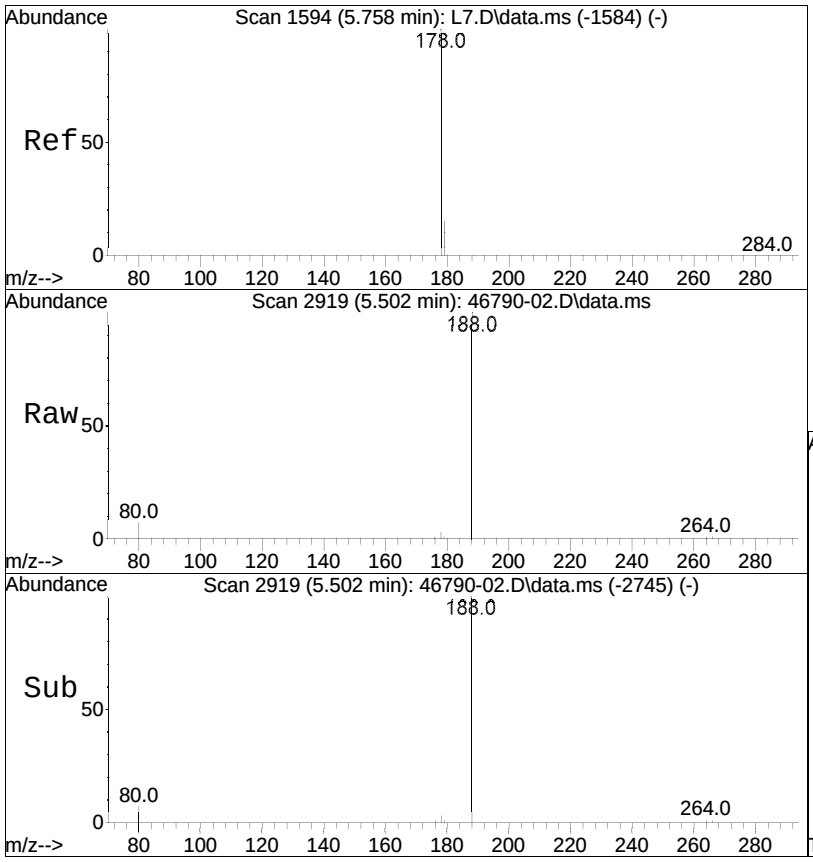
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\201029LVI\
Data File : 46790-02.D
Acq On : 29 Oct 2020 09:45 am
Operator : sv119:dv
Sample : L2046790-02,32,,nytcl,jjw
Misc : WG1427924,WG1427426,ical17132
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 29 13:04:17 2020
Quant Method : I:\8270SIM\sv119\201029LVI\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 08:09:20 2020
Response via : Initial Calibration

Sub List : Default - All compounds listed\ccv1029.D•

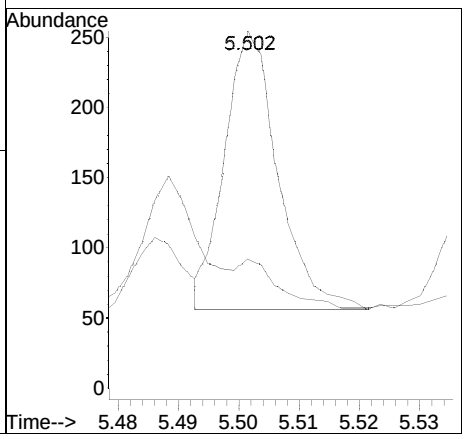




#25
Phenanthrene
Concen: 4.44 ng/ml
RT: 5.502 min Scan# 2919
Delta R.T. -0.002 min
Lab File: 46790-02.D
Acq: 29 Oct 2020 09:45 am

Tgt Ion:178 Resp: 121

Ion	Ratio	Lower	Upper
178	100		
179	42.1	12.5	18.7#



Manual Integration Report

Data Path	: I:\8270SIM\sv119\201029LVI	QMethod	: SIM-LVI_200916_sv119.M
Data File	: 46790-02.D	Operator	: sv119:dv
Date Inj'd	: 10/29/2020 9:45 am	Instrument	: SV119
Sample	: L2046790-02,32,,nytcl,jjw	Quant Date	: 10/29/2020 1:02 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\201029LVI\
Data File : 46790-03.D
Acq On : 29 Oct 2020 10:06 am
Operator : sv119:dv
Sample : L2046790-03,32,,nytcl,jjw
Misc : WG1427924,WG1427426,ical17132
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 29 13:05:19 2020
Quant Method : I:\8270SIM\sv119\201029LVI\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 08:09:20 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\201029LVI\ccv1029.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.542	152	22136	4000.000	ng/ml	0.00
Standard Area 1 = 22118			Recovery = 100.08%			
9) Naphthalene-d8	3.337	136	80360	4000.000	ng/ml #	0.00
Standard Area 1 = 81355			Recovery = 98.78%			
17) Acenaphthene-d10	4.497	164	47386	4000.000	ng/ml	0.00
Standard Area 1 = 49629			Recovery = 95.48%			
21) Phenanthrene-d10	5.488	188	100111	4000.000	ng/ml #	0.00
Standard Area 1 = 107834			Recovery = 92.84%			
30) Chrysene-d12	7.274	240	96322	4000.000	ng/ml #	0.00
Standard Area 1 = 112549			Recovery = 85.58%			
34) Perylene-d12	8.208	264	98679	4000.000	ng/ml	0.00
Standard Area 1 = 113755			Recovery = 86.75%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.800	112	15913	2899.242	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 57984.84%#			
4) Phenol-d6	2.360	99	14600M6	2262.323	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 45246.46%#			
8) Nitrobenzene-d5	2.893	82	11155	1951.115	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 78044.60%#			
14) 2-Fluorobiphenyl	4.069	172	38279	2270.365	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 90814.60%#			
20) 2,4,6-Tribromophenol	5.029	330	11315	4167.576	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 83351.52%#			
29) 4-Terphenyl-d14	6.594	244	53922	2785.289	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 111411.56%#			
Target Compounds						Qvalue
10) Naphthalene	3.351	128	112	5.421	ng/ml#	69
16) Acenaphthylene	0.000		0	N.D.	d	
18) Acenaphthene	0.000		0	N.D.	d	
19) Fluorene	4.868	166	95	5.651	ng/ml	98
23) Hexachlorobenzene	0.000		0	N.D.		
24) Pentachlorophenol	0.000		0	N.D.		
25) Phenanthrene	5.502	178	236	8.565	ng/ml#	91
26) Anthracene	5.539	178	139M1	5.304	ng/ml	
27) Fluoranthene	6.306	202	158	5.358	ng/ml#	71

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\201029LVI\
Data File : 46790-03.D
Acq On : 29 Oct 2020 10:06 am
Operator : sv119:dv
Sample : L2046790-03,32,,nytcl,jjw
Misc : WG1427924,WG1427426,ical17132
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 29 13:05:19 2020
Quant Method : I:\8270SIM\sv119\201029LVI\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 08:09:20 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\201029LVI\ccv1029.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Pyrene	6.451	202	177	5.798	ng/ml#	54
31) Benzo[a]anthracene	0.000		0	N.D.	d	
32) Chrysene	0.000		0	N.D.	d	
35) Benzo[b]fluoranthene	0.000		0	N.D.	d	
36) Benzo[k]fluoranthene	0.000		0	N.D.	d	
37) Benzo[a]pyrene	0.000		0	N.D.	d	
38) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
39) Dibenzo[a,h]anthracene	0.000		0	N.D.		
40) Benzo[g,h,i]perylene	0.000		0	N.D.		

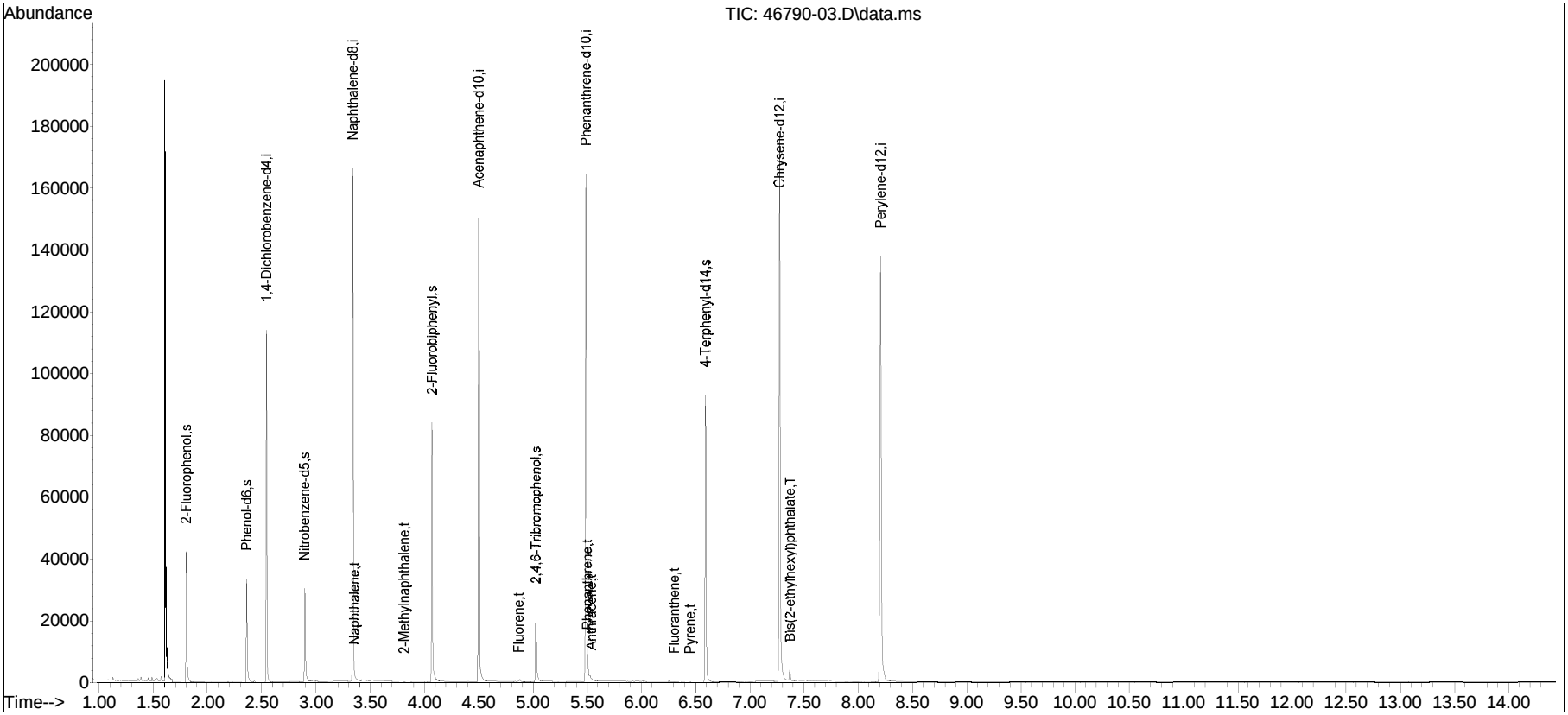
(#) = qualifier out of range (m) = manual integration (+) = signals summed

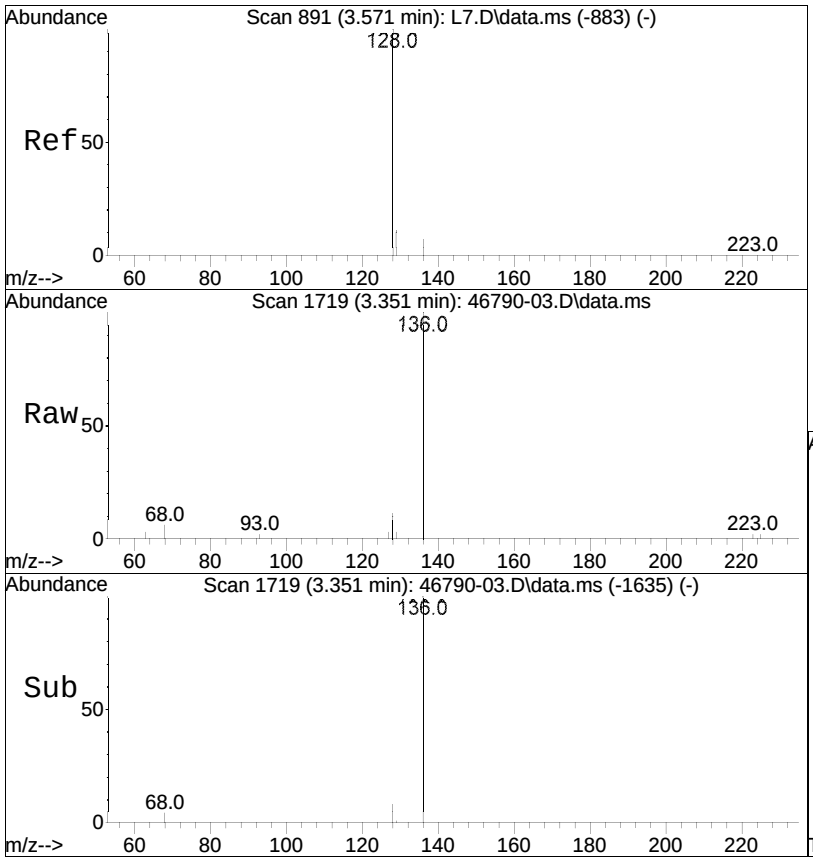
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\201029LVI\
Data File : 46790-03.D
Acq On : 29 Oct 2020 10:06 am
Operator : sv119:dv
Sample : L2046790-03,32,,nytcl,jjw
Misc : WG1427924,WG1427426,ical17132
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 29 13:05:19 2020
Quant Method : I:\8270SIM\sv119\201029LVI\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 08:09:20 2020
Response via : Initial Calibration

Sub List : Default - All compounds listed\ccv1029.D•

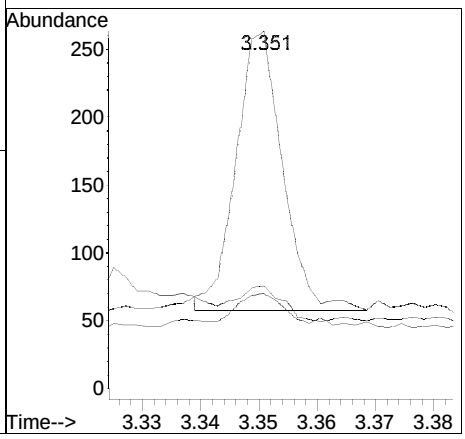


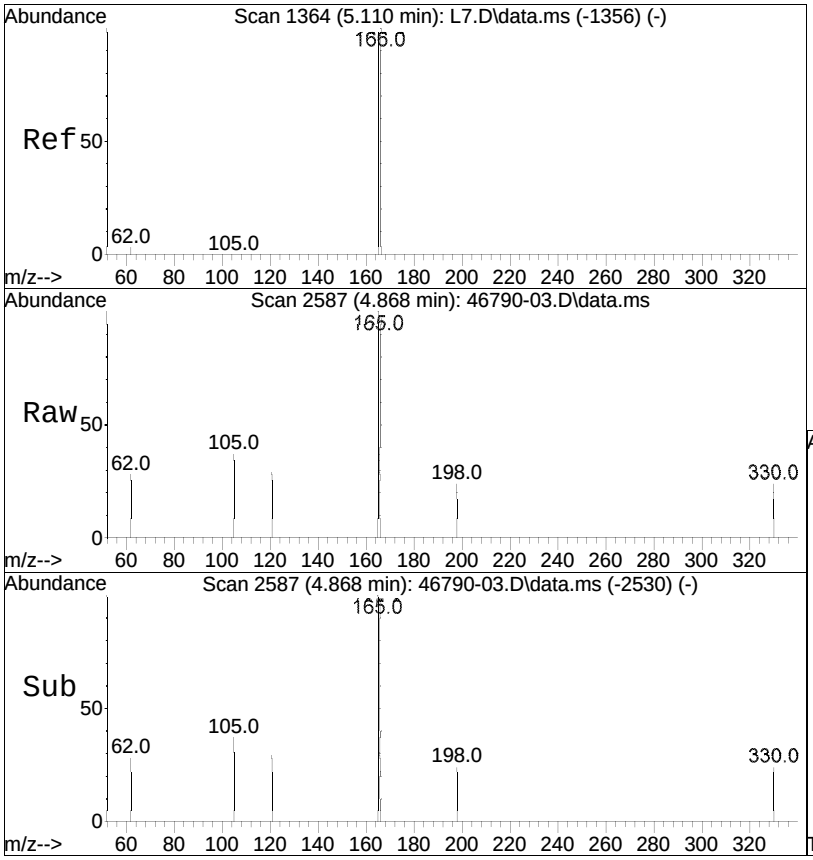


#10
Naphthalene
Concen: 5.42 ng/ml
RT: 3.351 min Scan# 1719
Delta R.T. -0.002 min
Lab File: 46790-03.D
Acq: 29 Oct 2020 10:06 am

Tgt Ion:128 Resp: 112

Ion	Ratio	Lower	Upper
128	100		
129	0.0	8.8	13.2#
127	0.0	10.6	16.0#

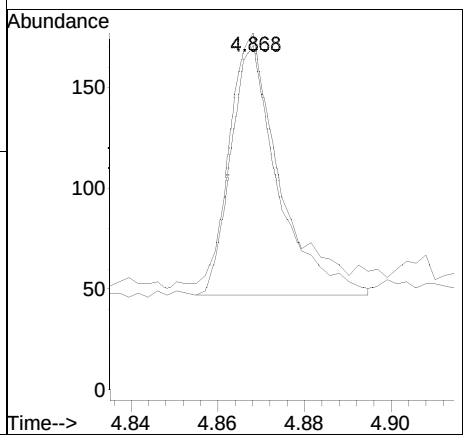


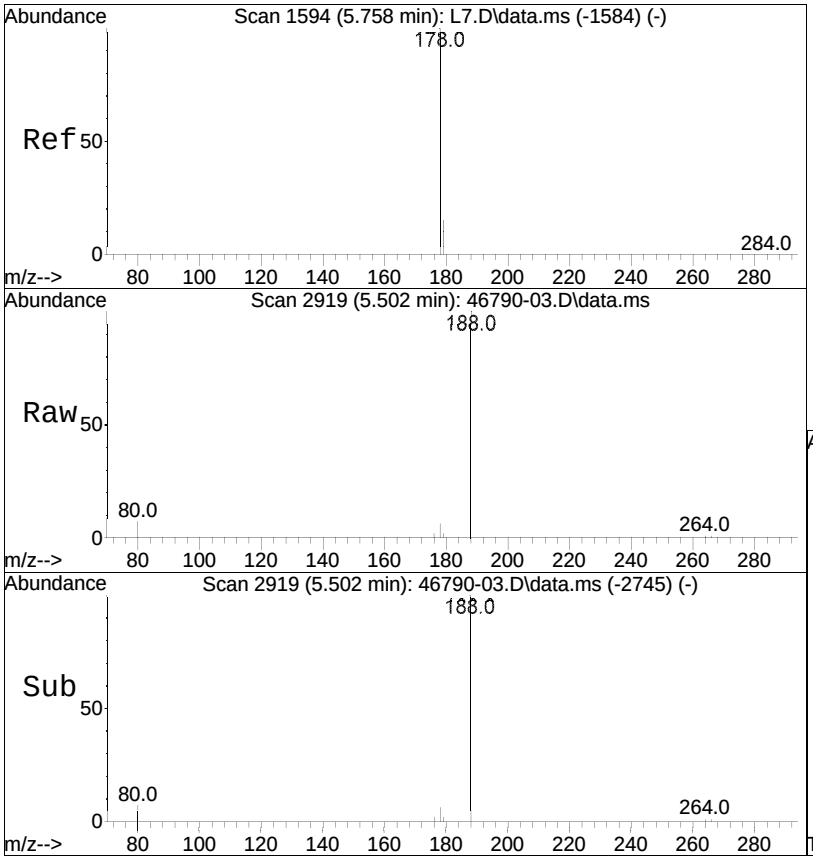


#19
Fluorene
Concen: 5.65 ng/ml
RT: 4.868 min Scan# 2587
Delta R.T. 0.000 min
Lab File: 46790-03.D
Acq: 29 Oct 2020 10:06 am

Tgt Ion:166 Resp: 95

Ion	Ratio	Lower	Upper
166	100		
165	98.9	80.9	121.3

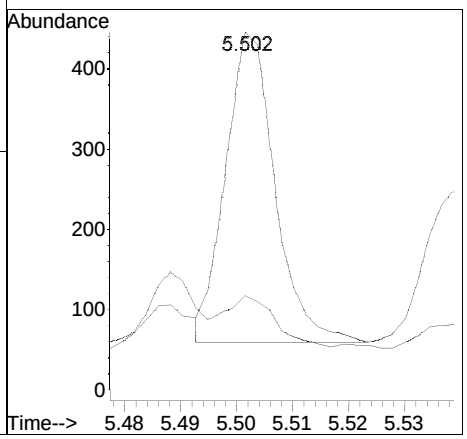


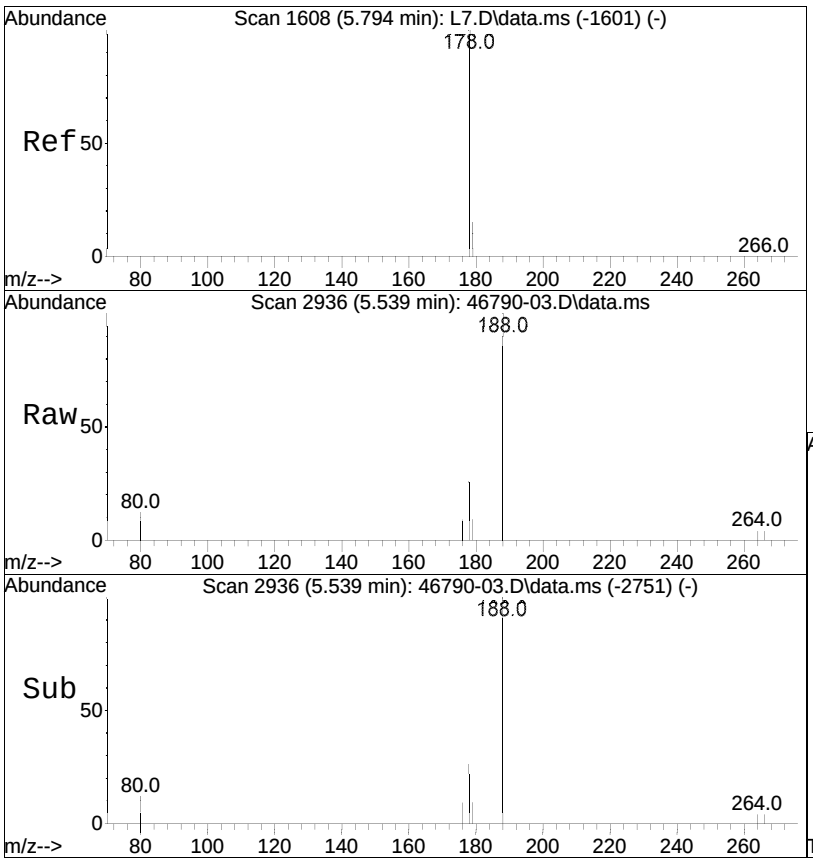


#25
Phenanthrene
Concen: 8.57 ng/ml
RT: 5.502 min Scan# 2919
Delta R.T. -0.002 min
Lab File: 46790-03.D
Acq: 29 Oct 2020 10:06 am

Tgt Ion:178 Resp: 236

Ion	Ratio	Lower	Upper
178	100		
179	19.5	12.5	18.7#

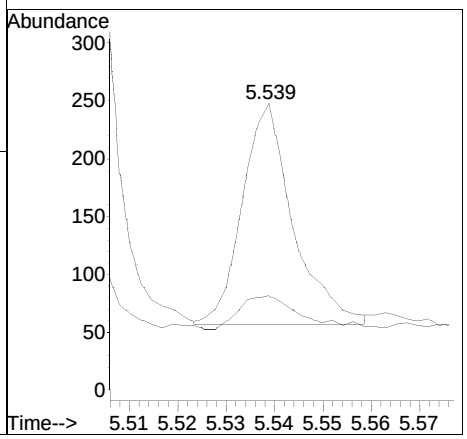


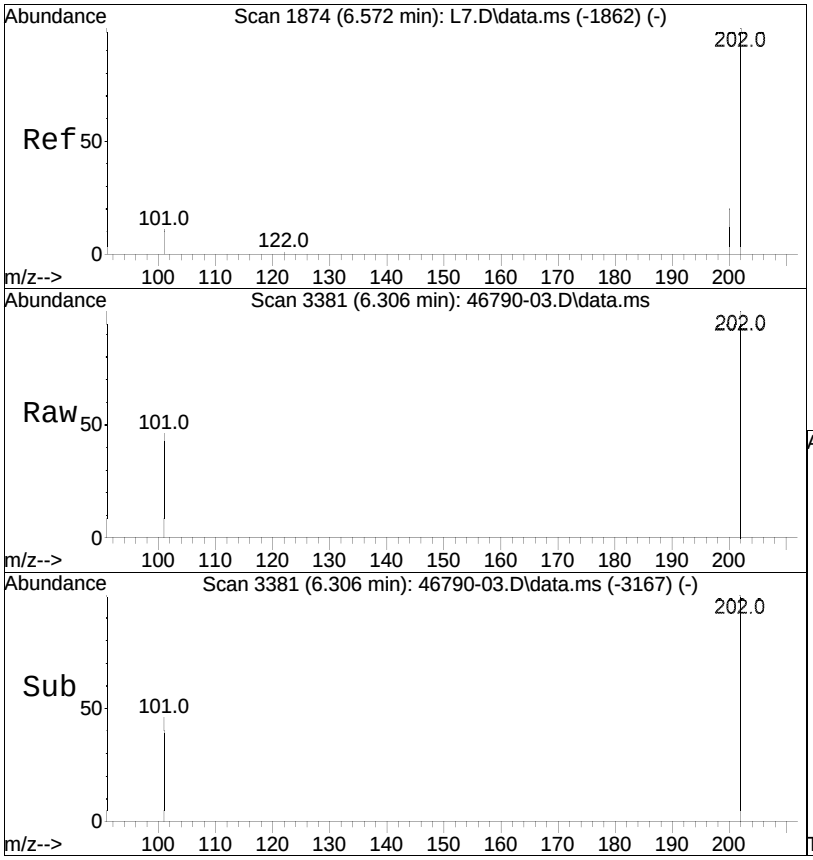


#26
Anthracene
Concen: 5.30 ng/ml M1
RT: 5.539 min Scan# 2936
Delta R.T. 0.000 min
Lab File: 46790-03.D
Acq: 29 Oct 2020 10:06 am

Tgt Ion:178 Resp: 139

Ion	Ratio	Lower	Upper
178	100		
179	0.0	12.2	18.4#

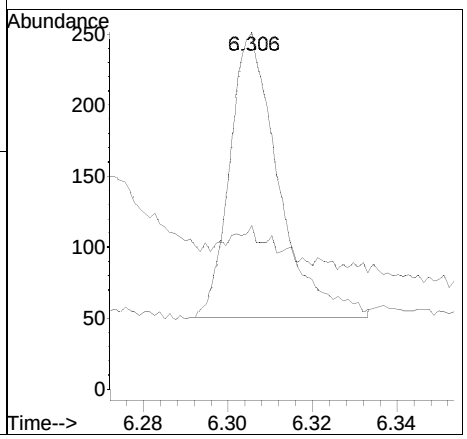


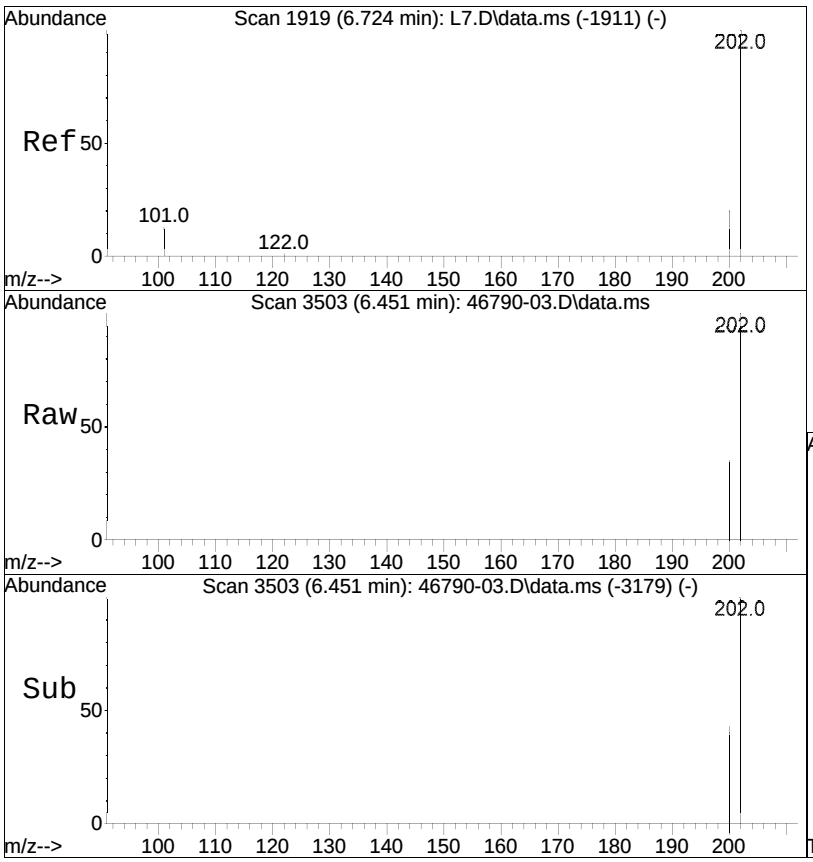


#27
Fluoranthene
Concen: 5.36 ng/ml
RT: 6.306 min Scan# 3381
Delta R.T. 0.000 min
Lab File: 46790-03.D
Acq: 29 Oct 2020 10:06 am

Tgt Ion:202 Resp: 158

Ion	Ratio	Lower	Upper
202	100		
101	0.0	8.9	13.3#

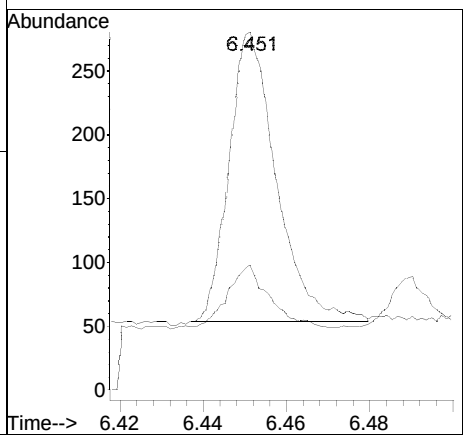




#28
Pyrene
Concen: 5.80 ng/ml
RT: 6.451 min Scan# 3503
Delta R.T. -0.001 min
Lab File: 46790-03.D
Acq: 29 Oct 2020 10:06 am

Tgt Ion:202 Resp: 177

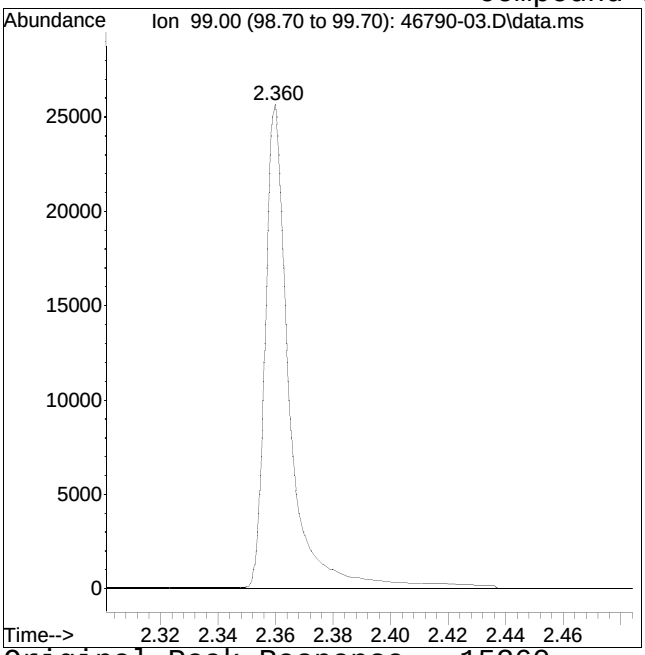
Ion	Ratio	Lower	Upper
202	100		
200	0.0	17.6	26.4#



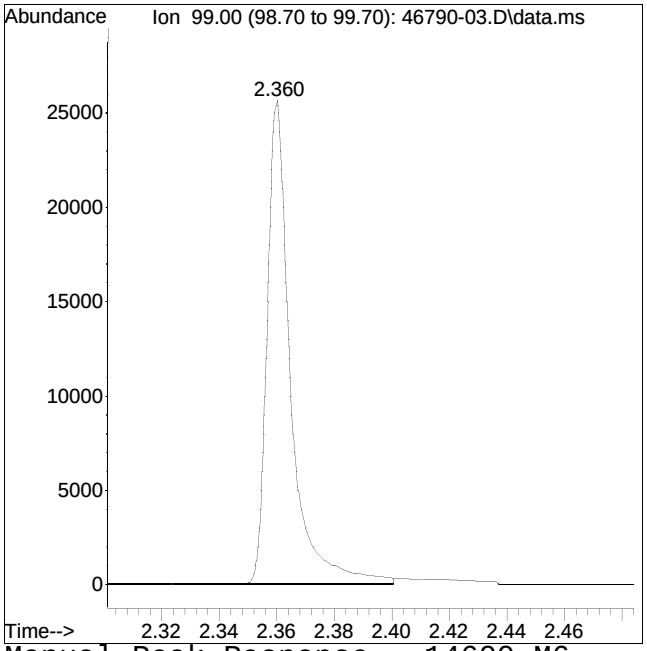
Manual Integration Report

Data Path : I:\8270SIM\sv119\201029LVIQMethod : SIM-LVI_200916_sv119.M
Data File : 46790-03.D Operator : sv119:dv
Date Inj'd : 10/29/2020 10:06 am Instrument : SV119
Sample : L2046790-03,32,,nytcl,jjw Quant Date : 10/29/2020 1:04 pm

Compound #4: Phenol-d6



Original Peak Response = 15260



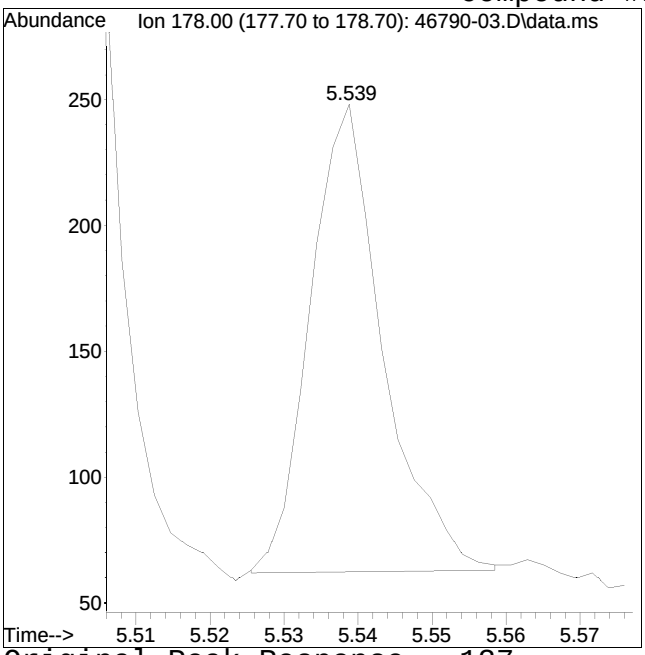
Manual Peak Response = 14600 M6

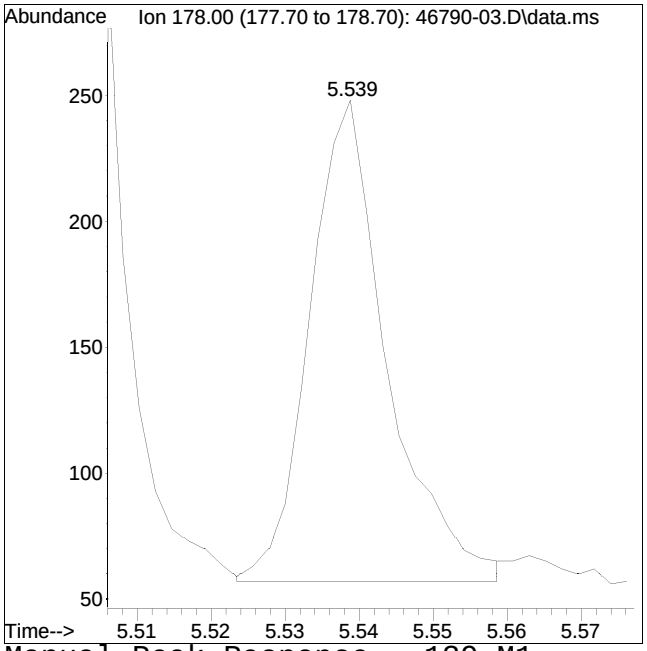
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv119\201029LVIQMethod : SIM-LVI_200916_sv119.M
Data File : 46790-03.D Operator : sv119:dv
Date Inj'd : 10/29/2020 10:06 am Instrument : SV119
Sample : L2046790-03,32,,nytcl,jjw Quant Date : 10/29/2020 1:04 pm

Compound #26: Anthracene





Original Peak Response = 127 Manual Peak Response = 139 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\201029LVI\
Data File : 46790-04.D
Acq On : 29 Oct 2020 11:30 am
Operator : sv119:dv
Sample : L2046790-04,32,,nytcl,jjw
Misc : WG1427924,WG1427426,ical17132
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 29 13:06:19 2020
Quant Method : I:\8270SIM\sv119\201029LVI\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 08:09:20 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\201029LVI\ccv1029.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	2.539	152	19848	4000.000 ng/ml	0.00
Standard Area 1 = 22118			Recovery = 89.74%		
9) Naphthalene-d8	3.335	136	70827	4000.000 ng/ml	# 0.00
Standard Area 1 = 81355			Recovery = 87.06%		
17) Acenaphthene-d10	4.495	164	43077	4000.000 ng/ml	0.00
Standard Area 1 = 49629			Recovery = 86.80%		
21) Phenanthrene-d10	5.486	188	93070	4000.000 ng/ml	# 0.00
Standard Area 1 = 107834			Recovery = 86.31%		
30) Chrysene-d12	7.274	240	91750	4000.000 ng/ml	# 0.00
Standard Area 1 = 112549			Recovery = 81.52%		
34) Perylene-d12	8.207	264	90471	4000.000 ng/ml	0.00
Standard Area 1 = 113755			Recovery = 79.53%		
System Monitoring Compounds					
3) 2-Fluorophenol	1.796	112	12834	2607.815 ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 52156.30%#		
4) Phenol-d6	2.355	99	12627M6	2182.148 ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 43642.96%#		
8) Nitrobenzene-d5	2.891	82	9081	1771.452 ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 70858.08%#		
14) 2-Fluorobiphenyl	4.067	172	32062	2157.580 ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 86303.20%#		
20) 2,4,6-Tribromophenol	5.027	330	8448	3422.847 ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 68456.94%#		
29) 4-Terphenyl-d14	6.593	244	47354	2631.074 ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 105242.96%#		
Target Compounds					Qvalue
10) Naphthalene	0.000		0	N.D. d	
16) Acenaphthylene	0.000		0	N.D.	
18) Acenaphthene	0.000		0	N.D.	
19) Fluorene	0.000		0	N.D. d	
23) Hexachlorobenzene	0.000		0	N.D.	
24) Pentachlorophenol	0.000		0	N.D.	
25) Phenanthrene	5.501	178	261	10.189 ng/ml#	63
26) Anthracene	5.536	178	80	3.283 ng/ml#	63
27) Fluoranthene	6.304	202	277	10.104 ng/ml#	71

Data Path : I:\8270SIM\sv119\201029LVI\
Data File : 46790-04.D
Acq On : 29 Oct 2020 11:30 am
Operator : sv119:dv
Sample : L2046790-04,32,,nytcl,jjw
Misc : WG1427924,WG1427426,ical17132
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 29 13:06:19 2020
Quant Method : I:\8270SIM\sv119\201029LVI\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 08:09:20 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\201029LVI\ccv1029.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Pyrene	6.450	202	262	9.232	ng/ml	91
31) Benzo[a]anthracene	0.000		0	N.D.	d	
32) Chrysene	0.000		0	N.D.	d	
35) Benzo[b]fluoranthene	7.956	252	198M1	7.020	ng/ml	
36) Benzo[k]fluoranthene	7.971	252	87M3	3.048	ng/ml	
37) Benzo[a]pyrene	0.000		0	N.D.	d	
38) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
39) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
40) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

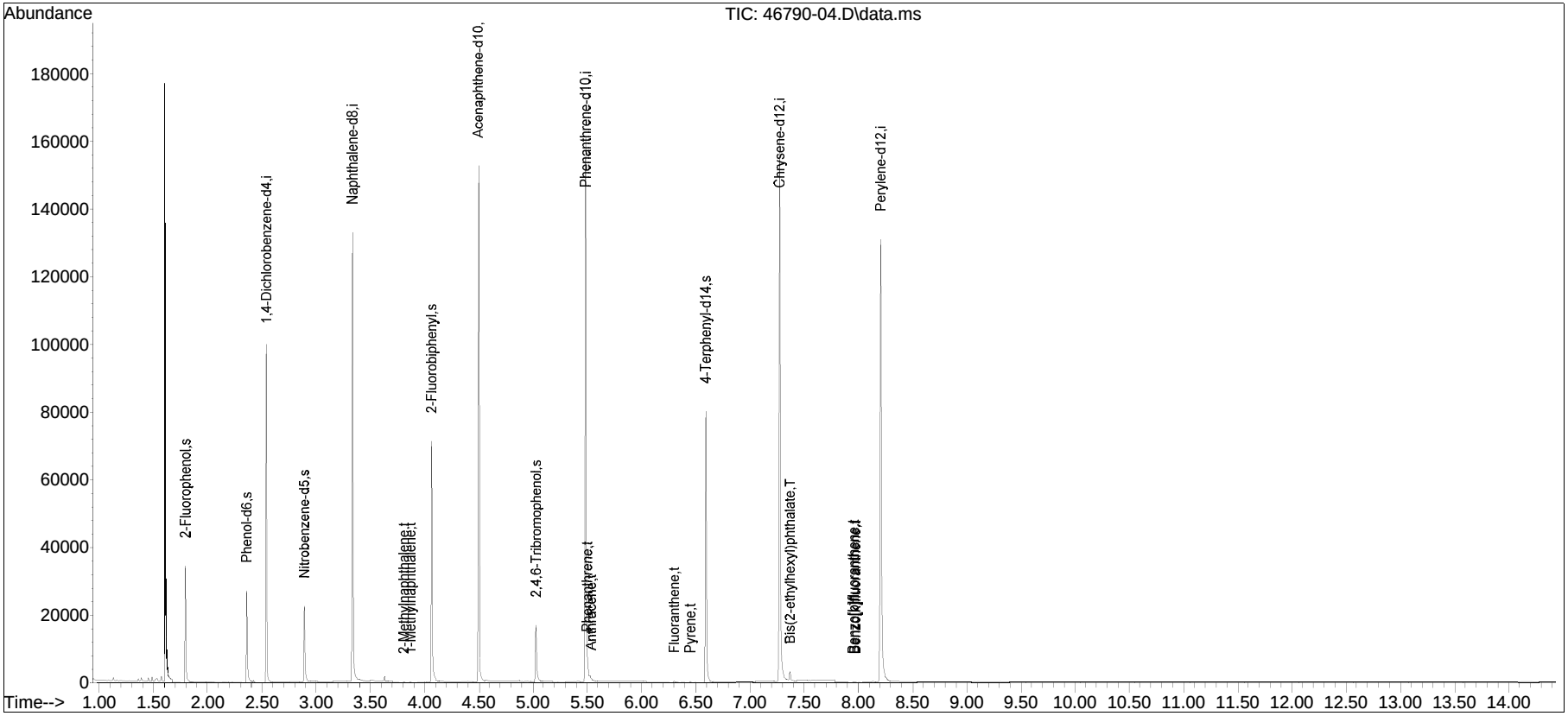
(#) = qualifier out of range (m) = manual integration (+) = signals summed

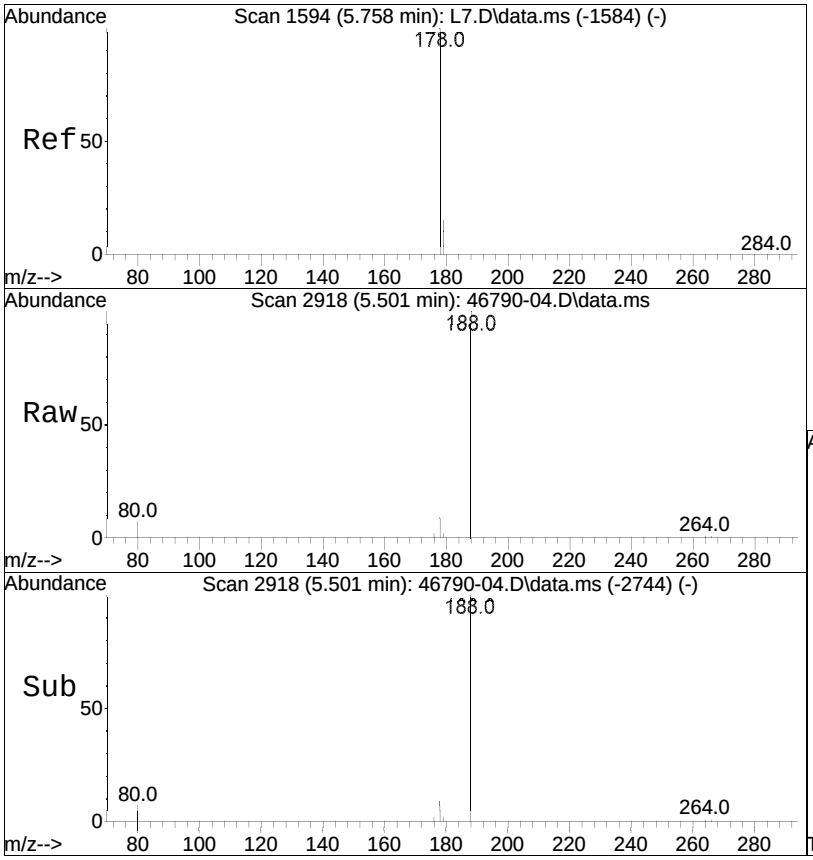
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\201029LVI\
Data File : 46790-04.D
Acq On : 29 Oct 2020 11:30 am
Operator : sv119:dv
Sample : L2046790-04,32,,nytcl,jjw
Misc : WG1427924,WG1427426,ical17132
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 29 13:06:19 2020
Quant Method : I:\8270SIM\sv119\201029LVI\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 08:09:20 2020
Response via : Initial Calibration

Sub List : Default - All compounds listed\ccv1029.D•

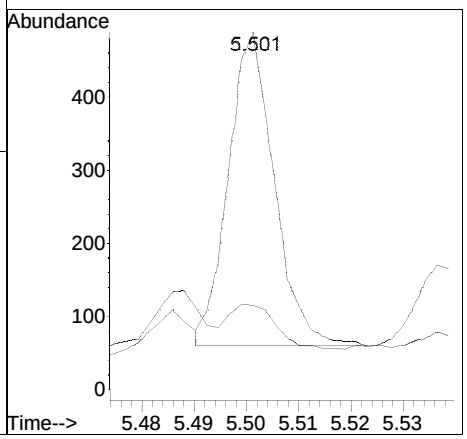


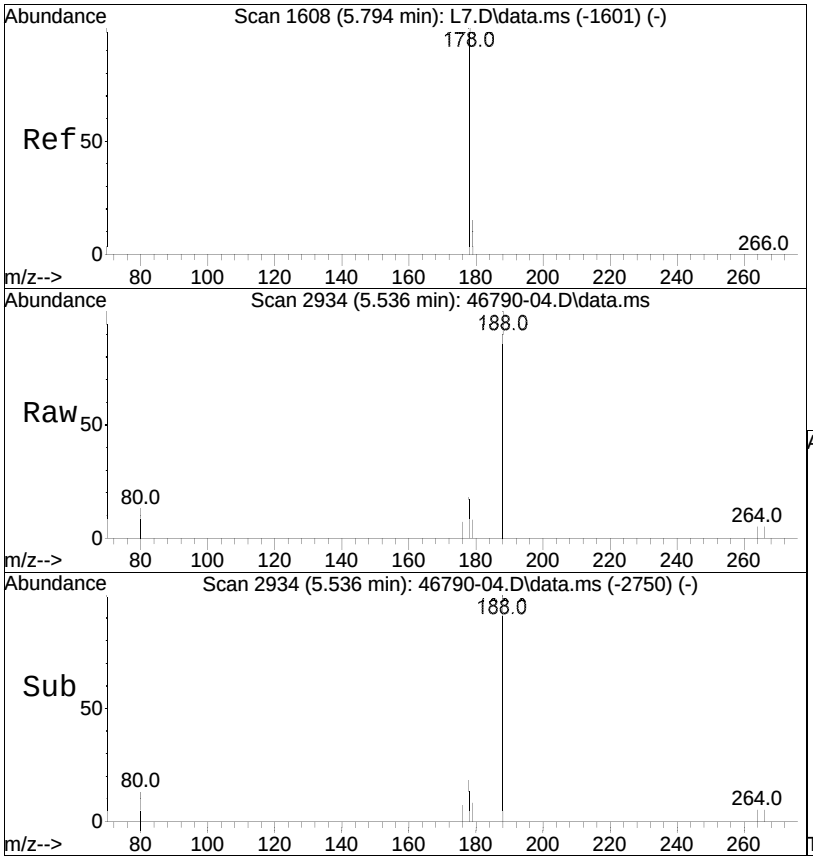


#25
Phenanthrene
Concen: 10.19 ng/ml
RT: 5.501 min Scan# 2918
Delta R.T. -0.002 min
Lab File: 46790-04.D
Acq: 29 Oct 2020 11:30 am

Tgt Ion:178 Resp: 261

Ion	Ratio	Lower	Upper
178	100		
179	0.0	12.5	18.7#

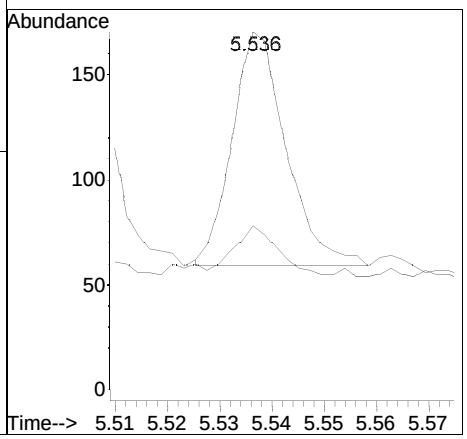


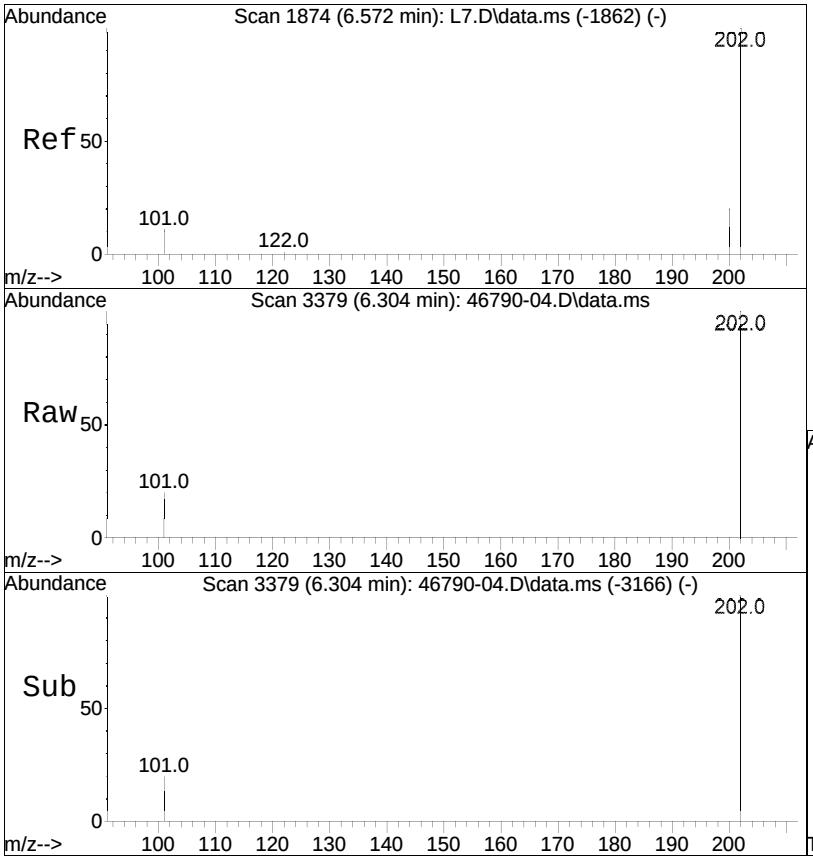


#26
Anthracene
Concen: 3.28 ng/ml
RT: 5.536 min Scan# 2934
Delta R.T. -0.002 min
Lab File: 46790-04.D
Acq: 29 Oct 2020 11:30 am

Tgt Ion:178 Resp: 80

Ion	Ratio	Lower	Upper
178	100		
179	0.0	12.2	18.4#

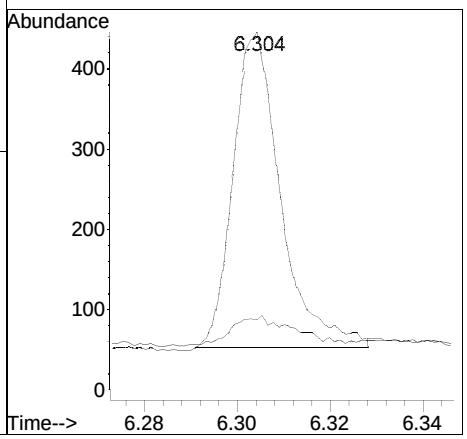


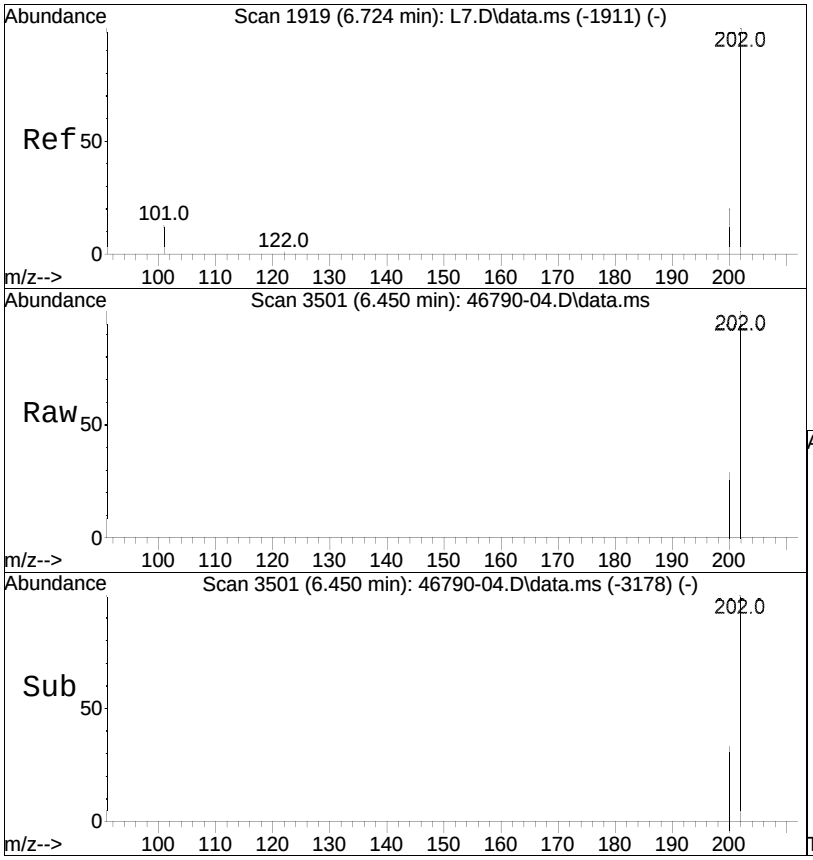


#27
Fluoranthene
Concen: 10.10 ng/ml
RT: 6.304 min Scan# 3379
Delta R.T. -0.001 min
Lab File: 46790-04.D
Acq: 29 Oct 2020 11:30 am

Tgt Ion:202 Resp: 277

Ion	Ratio	Lower	Upper
202	100		
101	0.0	8.9	13.3#

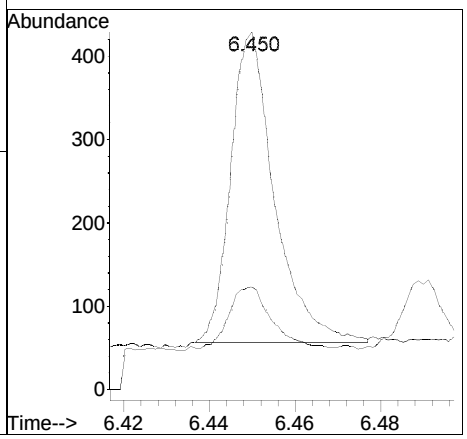


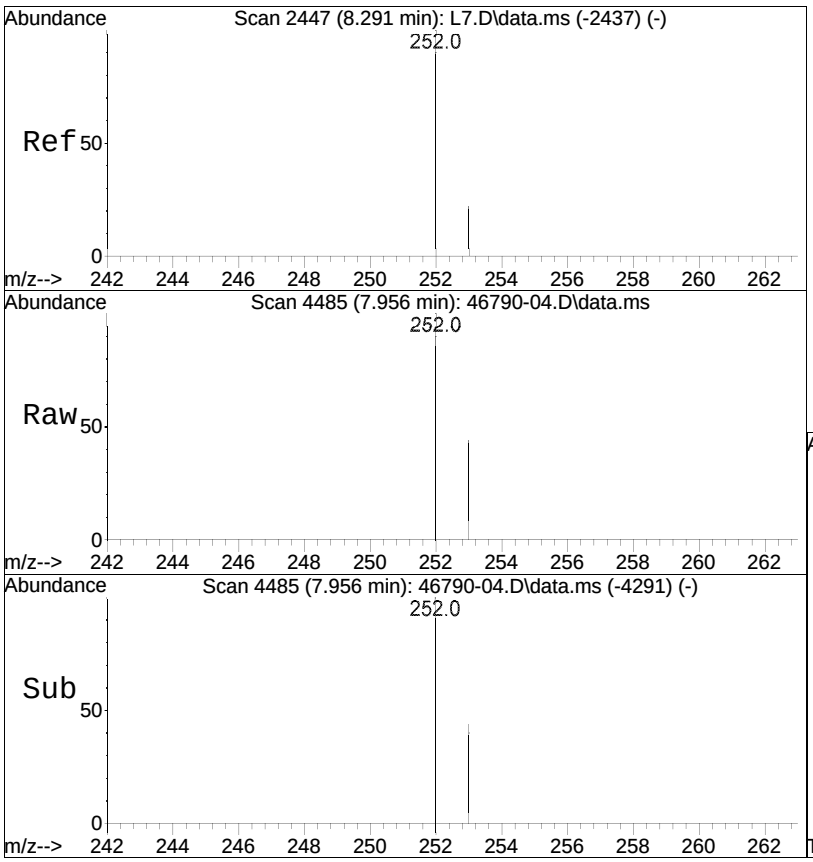


#28
Pyrene
Concen: 9.23 ng/ml
RT: 6.450 min Scan# 3501
Delta R.T. -0.002 min
Lab File: 46790-04.D
Acq: 29 Oct 2020 11:30 am

Tgt Ion:202 Resp: 262

Ion	Ratio	Lower	Upper
202	100		
200	17.9	17.6	26.4

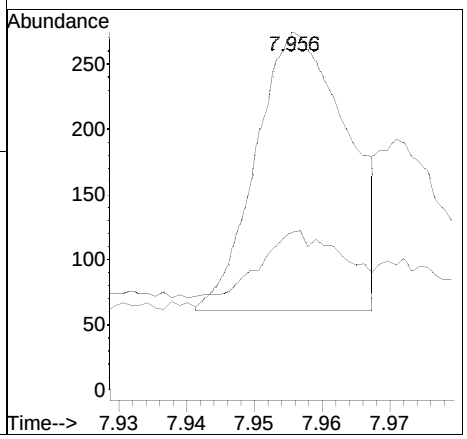


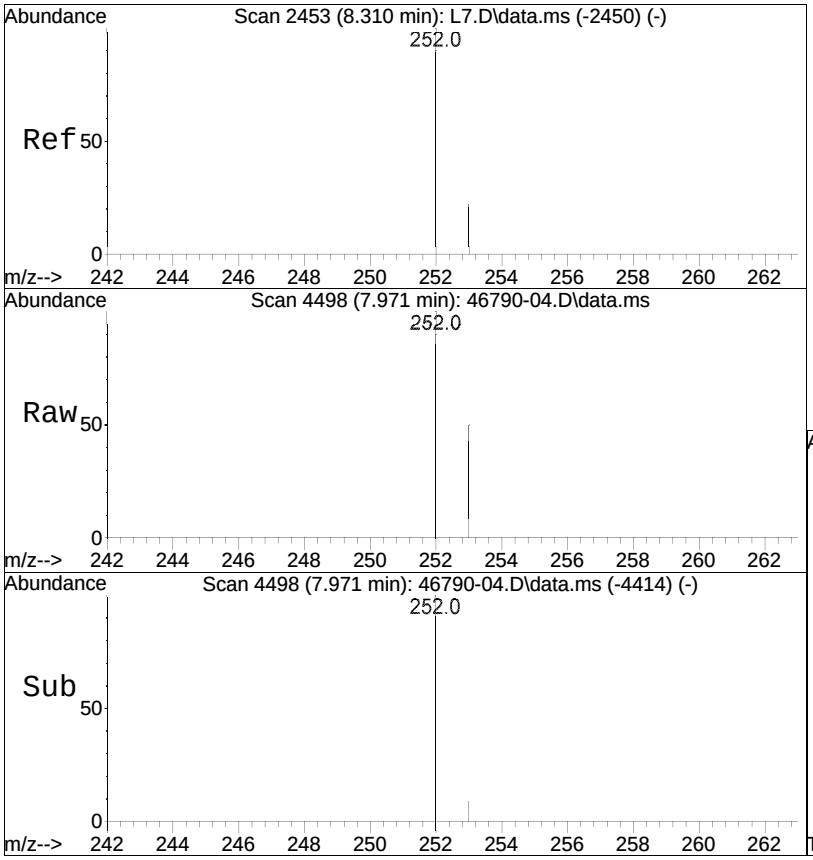


#35
Benzo[b]fluoranthene
Concen: 7.02 ng/ml M1
RT: 7.956 min Scan# 4485
Delta R.T. 0.002 min
Lab File: 46790-04.D
Acq: 29 Oct 2020 11:30 am

Tgt Ion:252 Resp: 198

Ion	Ratio	Lower	Upper
252	100		
253	0.0	17.5	26.3#

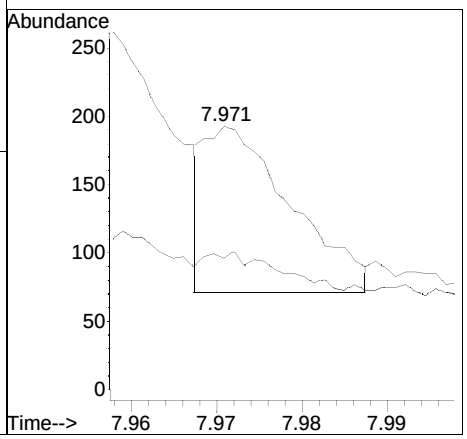




#36
Benzo[k]fluoranthene
Concen: 3.05 ng/ml M3
RT: 7.971 min Scan# 4498
Delta R.T. -0.000 min
Lab File: 46790-04.D
Acq: 29 Oct 2020 11:30 am

Tgt Ion:252 Resp: 87

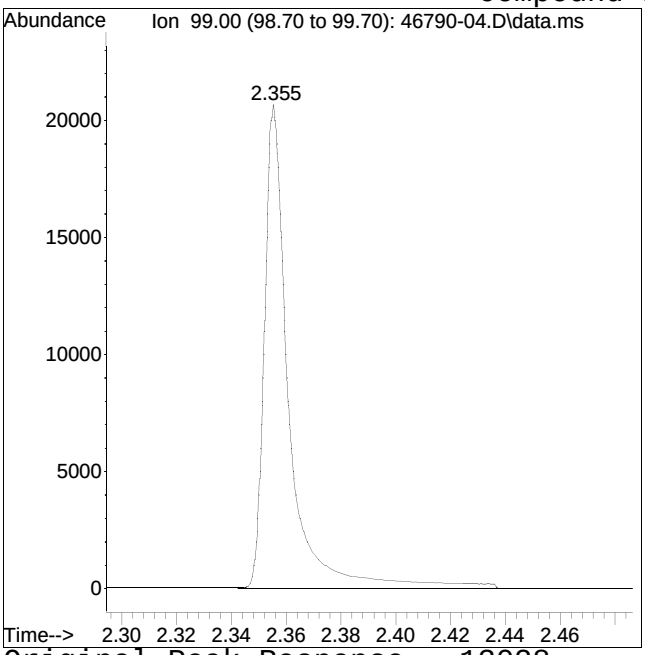
Ion	Ratio	Lower	Upper
252	100		
253	0.0	17.4	26.0#



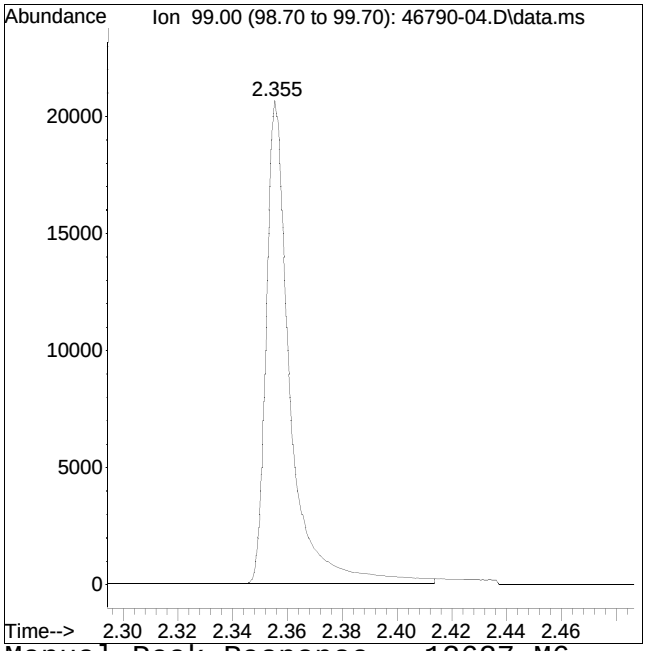
Manual Integration Report

Data Path : I:\8270SIM\sv119\201029LVIQMethod : SIM-LVI_200916_sv119.M
Data File : 46790-04.D Operator : sv119:dv
Date Inj'd : 10/29/2020 11:30 am Instrument : SV119
Sample : L2046790-04,32,,nytcl,jjw Quant Date : 10/29/2020 1:05 pm

Compound #4: Phenol-d6



Original Peak Response = 13028



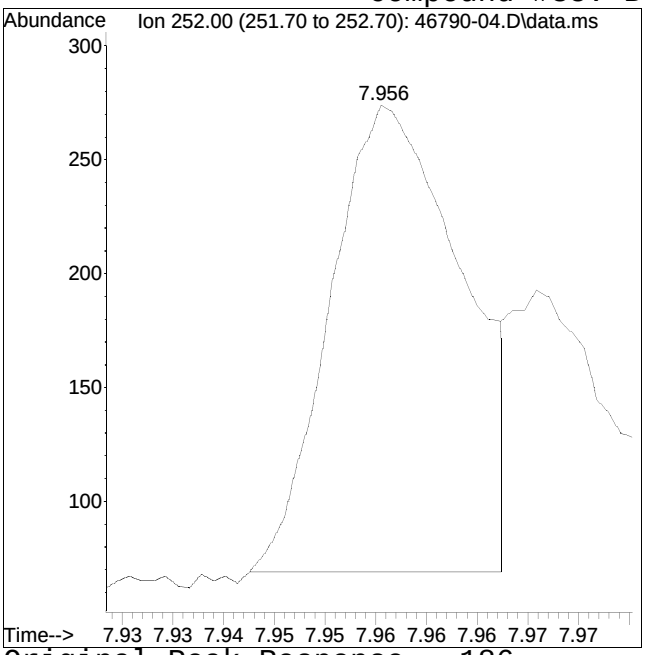
Manual Peak Response = 12627 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

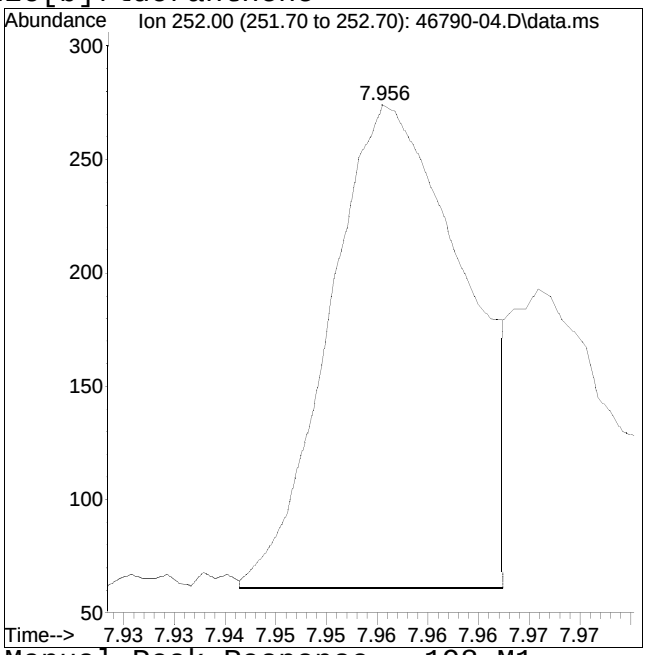
Manual Integration Report

Data Path : I:\8270SIM\sv119\201029LVIQMethod : SIM-LVI_200916_sv119.M
Data File : 46790-04.D Operator : sv119:dv
Date Inj'd : 10/29/2020 11:30 am Instrument : SV119
Sample : L2046790-04,32,,nytcl,jjw Quant Date : 10/29/2020 1:05 pm

Compound #35: Benzo[b]fluoranthene



Original Peak Response = 186



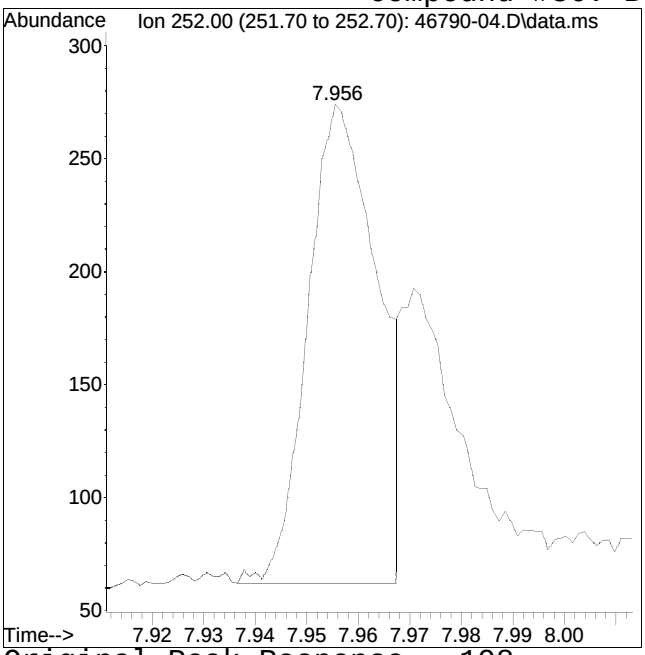
Manual Peak Response = 198 M1

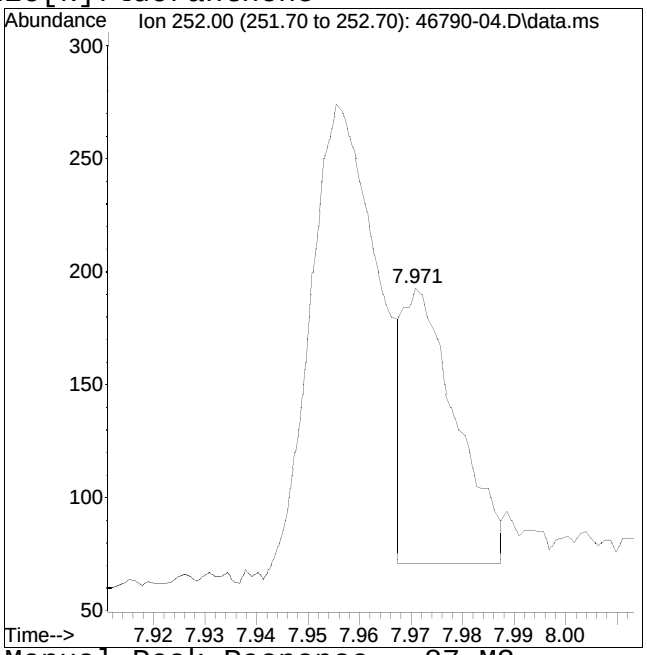
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270SIM\sv119\201029LVIQMethod : SIM-LVI_200916_sv119.M
Data File : 46790-04.D Operator : sv119:dv
Date Inj'd : 10/29/2020 11:30 am Instrument : SV119
Sample : L2046790-04,32,,nytcl,jjw Quant Date : 10/29/2020 1:05 pm

Compound #36: Benzo[k]fluoranthene





Original Peak Response = 198 Manual Peak Response = 87 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Impact Environmental**	**Lab Number**	**: L2046790**
Project Name	**: 13-12 BEACH CHANNEL DRIVE**	**Project Number**	**: 15209**
Instrument ID	**: SV119**	**Ical Ref**	**: ICAL17132**
Calibration dates	**: 09/16/20 15:32 09/16/20 18:42**		

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	ISTD											
2)	T	1,4-Dioxane			0.413	0.425	0.432	0.425	0.415	0.400	0.416	0.564	0.436	12.02
3)	s	2-Fluorophenol			0.934	0.919	0.990	0.998	1.015	1.007	1.049	1.023	0.992	4.48
4)	s	Phenol-d6		1.044	1.081	1.134	1.169	1.188	1.202	1.200	1.251	1.227	1.166	5.84
5)	T	bis(2-Chloroethyl)ether			0.993	1.031	1.160	1.244	1.250	1.212	1.262	1.231	1.173	8.93
6)	T	n-Nitrosodi-n-propylamine			0.599	0.674	0.651	0.669	0.664	0.645	0.689	0.685	0.660	4.34
7)	t	Hexachloroethane			0.511	0.528	0.509	0.507	0.490	0.469	0.481	0.471	0.496	4.26
8)	s	Nitrobenzene-d5			0.973	1.031	1.007	1.051	1.043	1.024	1.079	1.057	1.033	3.16
9)	i	Naphthalene-d8	ISTD											
10)	t	Naphthalene		1.114	1.048	1.068	1.061	1.056	1.019	0.971	0.975	0.943	1.028	5.39
11)	t	Hexachlorobutadiene			0.224	0.217	0.218	0.217	0.207	0.200	0.200	0.195	0.210	5.05
12)	t	2-Methylnaphthalene			0.625	0.659	0.684	0.699	0.693	0.670	0.677	0.651	0.670	3.61
13)	t	1-Methylnaphthalene			0.593	0.658	0.657	0.663	0.646	0.617	0.627	0.609	0.634	4.10
14)	s	2-Fluorobiphenyl		0.847	0.828	0.881	0.870	0.876	0.838	0.798	0.820	0.796	0.839	3.80
15)	t	2-Chloronaphthalene			0.639	0.679	0.696	0.715	0.695	0.668	0.687	0.668	0.681	3.39
16)	t	Acenaphthylene		1.107	1.093	1.100	1.124	1.121	1.111	1.089	1.130	1.084	1.107	1.47
17)	i	Acenaphthene-d10	ISTD											
18)	t	Acenaphthene		1.453	1.444	1.419	1.458	1.445	1.393	1.307	1.325	1.287	1.392	4.89
19)	t	Fluorene		1.428	1.371	1.402	1.494	1.472	1.461	1.374	1.405	1.365	1.419	3.35
20)	s	2,4,6-Tribromophenol			0.201	0.206	0.225	0.224	0.241	0.237	0.250	0.249	0.229	8.07
21)	i	Phenanthrene-d10	ISTD											
22)	T	4,6-Dinitro-o-cresol					0.039	0.044	0.074	0.096	0.113	0.118	*Q	0.9981
23)	t	Hexachlorobenzene	0.285	0.285	0.252	0.260	0.263	0.261	0.252	0.237	0.243	0.236	0.257	6.76
24)	t	Pentachlorophenol			0.033	0.037	0.051	0.058	0.080	0.109			*Q	0.9993
25)	t	Phenanthrene		1.204	1.146	1.125	1.151	1.134	1.096	1.021	1.035	0.995	1.101	6.33
26)	t	Anthracene		1.056	1.012	1.042	1.060	1.058	1.078	1.032	1.061	1.026	1.047	1.97
27)	t	Fluoranthene		1.261	1.196	1.213	1.226	1.205	1.185	1.117	1.126	1.076	1.178	5.06
28)	t	Pyrene		1.324	1.238	1.249	1.265	1.234	1.212	1.158	1.170	1.127	1.220	4.97
29)	s	4-Terphenyl-d14		0.799	0.763	0.769	0.771	0.813	0.801	0.751	0.765	0.729	0.774	3.43
30)	i	Chrysene-d12	ISTD											
31)	t	Benzo[a]anthracene		2.402	1.681	1.460	1.349	1.274	1.211	1.194	1.247	1.236	*L	0.9998
32)	t	Chrysene		1.379	1.373	1.355	1.398	1.333	1.299	1.202	1.220	1.180	1.304	6.39
33)	T	bis(2-Ethylhexyl)phthalate				0.717	0.673	0.647	0.647	0.681	0.777	0.805	0.707	8.85
34)	i	Perylene-d12	ISTD											
35)	t	Benzo[b]fluoranthene		1.236	1.190	1.241	1.231	1.243	1.261	1.266	1.303	1.252	1.247	2.43
36)	t	Benzo[k]fluoranthene		1.223	1.296	1.220	1.330	1.306	1.273	1.220	1.269	1.221	1.262	3.39

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Impact Environmental**	**Lab Number**	**: L2046790**
Project Name	**: 13-12 BEACH CHANNEL DRIVE**	**Project Number**	**: 15209**
Instrument ID	**: SV119**	**Ical Ref**	**: ICAL17132**
Calibration dates	**: 09/16/20 15:32 09/16/20 18:42**		

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
37) t	Benzo[a]pyrene		1.084	1.063	1.038	1.060	1.045	1.050	1.060	1.118	1.107	1.069	2.60
38) t	Indeno[1,2,3-cd]pyrene		0.924	0.900	0.936	0.980	0.999	1.019	1.054	1.103	1.145	1.007	8.22
39) t	Dibenzo[a,h]anthracene		0.897	0.884	0.908	0.958	0.994	1.051	1.090	1.121	1.108	1.001	9.43
40) t	Benzo[g,h,i]perylene		1.037	1.136	1.119	1.146	1.144	1.127	1.123	1.159	1.177	1.130	3.48

Response Factor Report SV119

Method Path : I:\8270SIM\sv119\200916LVIical\
Method File : SIM-LVI_200916_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Sep 16 19:48:05 2020
Response Via : Initial Calibration

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

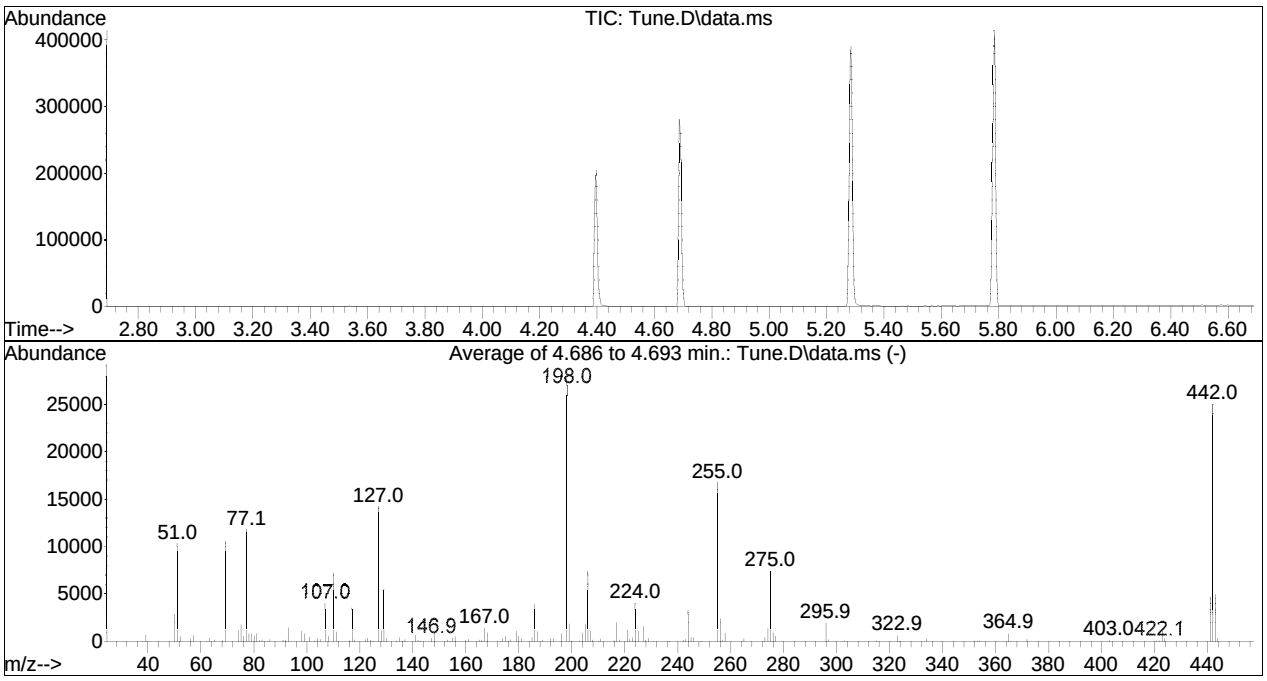
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	ISTD											
2)	T	1,4-Dioxane			0.413	0.425	0.432	0.425	0.415	0.400	0.416	0.564	0.436	12.02
3)	s	2-Fluorophenol			0.934	0.919	0.990	0.998	1.015	1.007	1.049	1.023	0.992	4.48
4)	s	Phenol-d6		1.044	1.081	1.134	1.169	1.188	1.202	1.200	1.251	1.227	1.166	5.84
5)	T	bis(2-Chloroethyl)ether			0.993	1.031	1.160	1.244	1.250	1.212	1.262	1.231	1.173	8.93
6)	T	n-Nitrosodi-n-propylamine			0.599	0.674	0.651	0.669	0.664	0.645	0.689	0.685	0.660	4.34
7)	t	Hexachloroethane			0.511	0.528	0.509	0.507	0.490	0.469	0.481	0.471	0.496	4.26
8)	s	Nitrobenzene-d5			0.973	1.031	1.007	1.051	1.043	1.024	1.079	1.057	1.033	3.16
9)	i	Naphthalene-d8	ISTD											
10)	t	Naphthalene		1.114	1.048	1.068	1.061	1.056	1.019	0.971	0.975	0.943	1.028	5.39
11)	t	Hexachlorobutadiene			0.224	0.217	0.218	0.217	0.207	0.200	0.200	0.195	0.210	5.05
12)	t	2-Methylnaphthalene			0.625	0.659	0.684	0.699	0.693	0.670	0.677	0.651	0.670	3.61
13)	t	1-Methylnaphthalene			0.593	0.658	0.657	0.663	0.646	0.617	0.627	0.609	0.634	4.10
14)	s	2-Fluorobiphenyl		0.847	0.828	0.881	0.870	0.876	0.838	0.798	0.820	0.796	0.839	3.80
15)	t	2-Chloronaphthalene			0.639	0.679	0.696	0.715	0.695	0.668	0.687	0.668	0.681	3.39
16)	t	Acenaphthylene		1.107	1.093	1.100	1.124	1.121	1.111	1.089	1.130	1.084	1.107	1.47
17)	i	Acenaphthene-d10	ISTD											
18)	t	Acenaphthene		1.453	1.444	1.419	1.458	1.445	1.393	1.307	1.325	1.287	1.392	4.89
19)	t	Fluorene		1.428	1.371	1.402	1.494	1.472	1.461	1.374	1.405	1.365	1.419	3.35
20)	s	2,4,6-Tribromophenol			0.201	0.206	0.225	0.224	0.241	0.237	0.250	0.249	0.229	8.07
21)	i	Phenanthrene-d10	ISTD											
22)	T	4,6-Dinitro-o-cresol					0.039	0.044	0.074	0.096	0.113	0.118	*Q	0.9981
23)	t	Hexachlorobenzene	0.285	0.285	0.252	0.260	0.263	0.261	0.252	0.237	0.243	0.236	0.257	6.76
24)	t	Pentachlorophenol			0.033	0.037	0.051	0.058	0.080	0.109			*Q	0.9993
25)	t	Phenanthrene		1.204	1.146	1.125	1.151	1.134	1.096	1.021	1.035	0.995	1.101	6.33
26)	t	Anthracene		1.056	1.012	1.042	1.060	1.058	1.078	1.032	1.061	1.026	1.047	1.97
27)	t	Fluoranthene		1.261	1.196	1.213	1.226	1.205	1.185	1.117	1.126	1.076	1.178	5.06
28)	t	Pyrene		1.324	1.238	1.249	1.265	1.234	1.212	1.158	1.170	1.127	1.220	4.97
29)	s	4-Terphenyl-d14		0.799	0.763	0.769	0.771	0.813	0.801	0.751	0.765	0.729	0.774	3.43
30)	i	Chrysene-d12	ISTD											
31)	t	Benzo[a]anthracene		2.402	1.681	1.460	1.349	1.274	1.211	1.194	1.247	1.236	*L	0.9998
32)	t	Chrysene		1.379	1.373	1.355	1.398	1.333	1.299	1.202	1.220	1.180	1.304	6.39
33)	T	bis(2-Ethylhexyl)phthalate				0.717	0.673	0.647	0.647	0.681	0.777	0.805	0.707	8.85
34)	i	Perylene-d12	ISTD											
35)	t	Benzo[b]fluora...		1.236	1.190	1.241	1.231	1.243	1.261	1.266	1.303	1.252	1.247	2.43
36)	t	Benzo[k]fluora...		1.223	1.296	1.220	1.330	1.306	1.273	1.220	1.269	1.221	1.262	3.39
37)	t	Benzo[a]pyrene		1.084	1.063	1.038	1.060	1.045	1.050	1.060	1.118	1.107	1.069	2.60
38)	t	Indeno[1,2,3-c...		0.924	0.900	0.936	0.980	0.999	1.019	1.054	1.103	1.145	1.007	8.22
39)	t	Dibenzo[a,h]anthracene		0.897	0.884	0.908	0.958	0.994	1.051	1.090	1.121	1.108	1.001	9.43
40)	t	Benzo[g,h,i]pe...		1.037	1.136	1.119	1.146	1.144	1.127	1.123	1.159	1.177	1.130	3.48

(#) = Out of Range

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : Tune.D
Acq On : 16 Sep 2020 03:13 pm
Operator : sv119:dv
Sample : TUNE
Misc : wg1410836,,ical
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Sep 16 18:25:16 2020



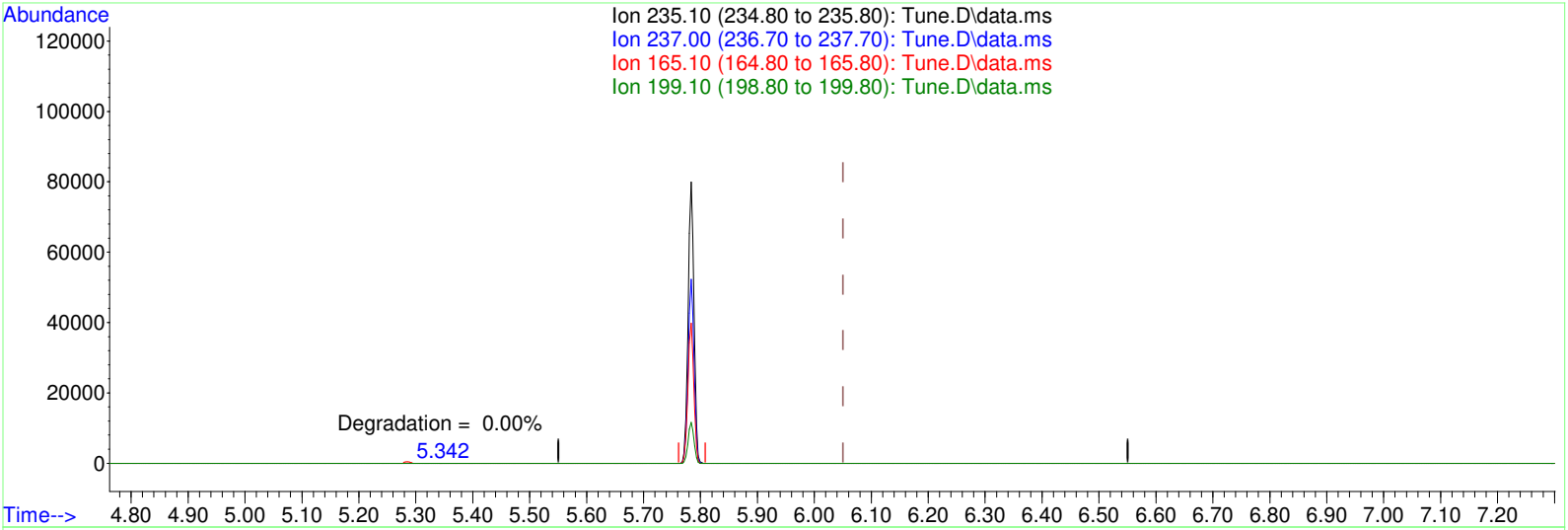
Spectrum Information: Average of 4.686 to 4.693 min.

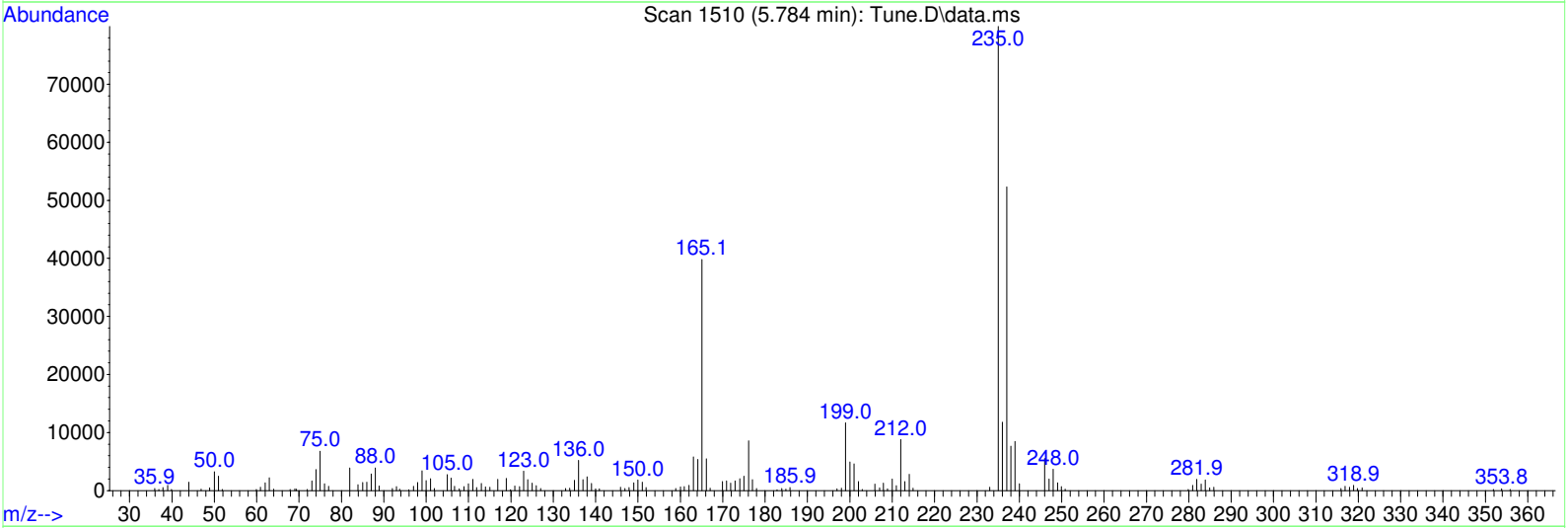
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	37.0	10298	PASS
68	69	0.00	2	1.4	152	PASS
69	69	100	100	100.0	10497	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	51.1	14219	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	27813	PASS
199	198	5	9	6.7	1851	PASS
275	198	10	60	26.7	7434	PASS
365	198	1	100	3.0	847	PASS
441	442	0.01	24	18.6	4659	PASS
442	198	50	100	89.9	25008	PASS
443	442	15	24	19.5	4874	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : Tune.D
Acq On : 16 Sep 2020 03:13 pm
Operator : sv119:dv
Sample : TUNE
Misc : wg1410836,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 16 15:35:24 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 09 09:04:00 2020
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools™ [TUNE]

(6) ddt (T)

5.784min (-0.267) 9.41 Lin

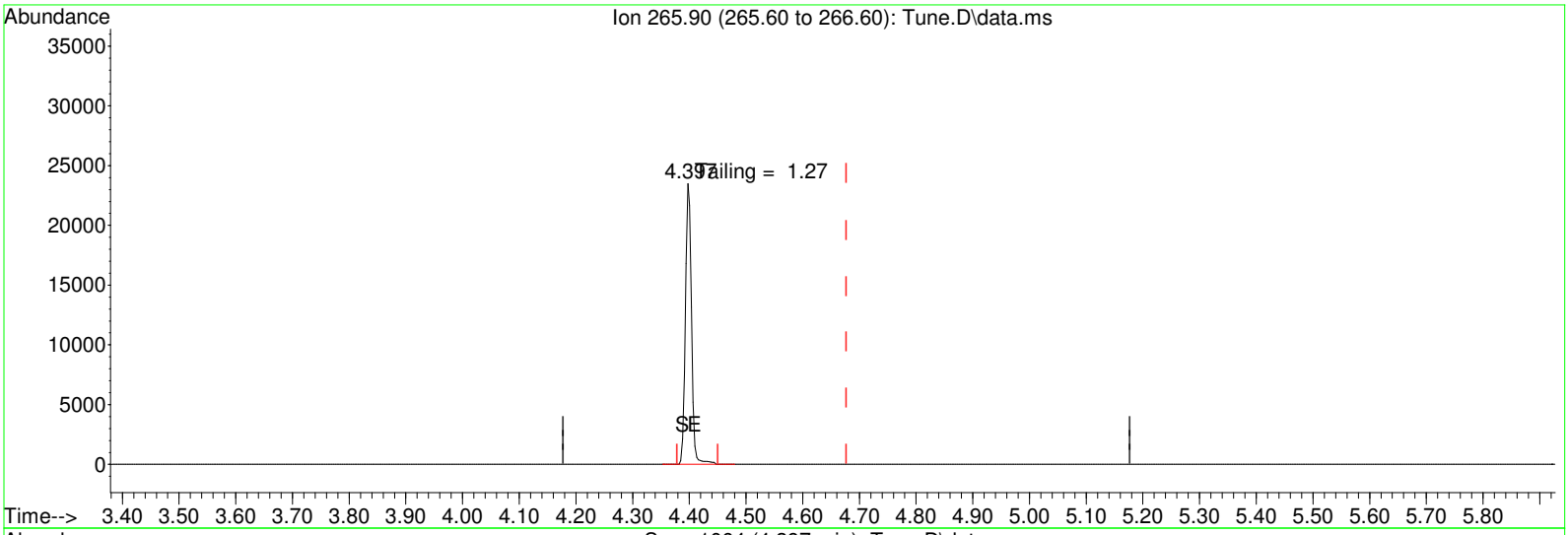
response 57366

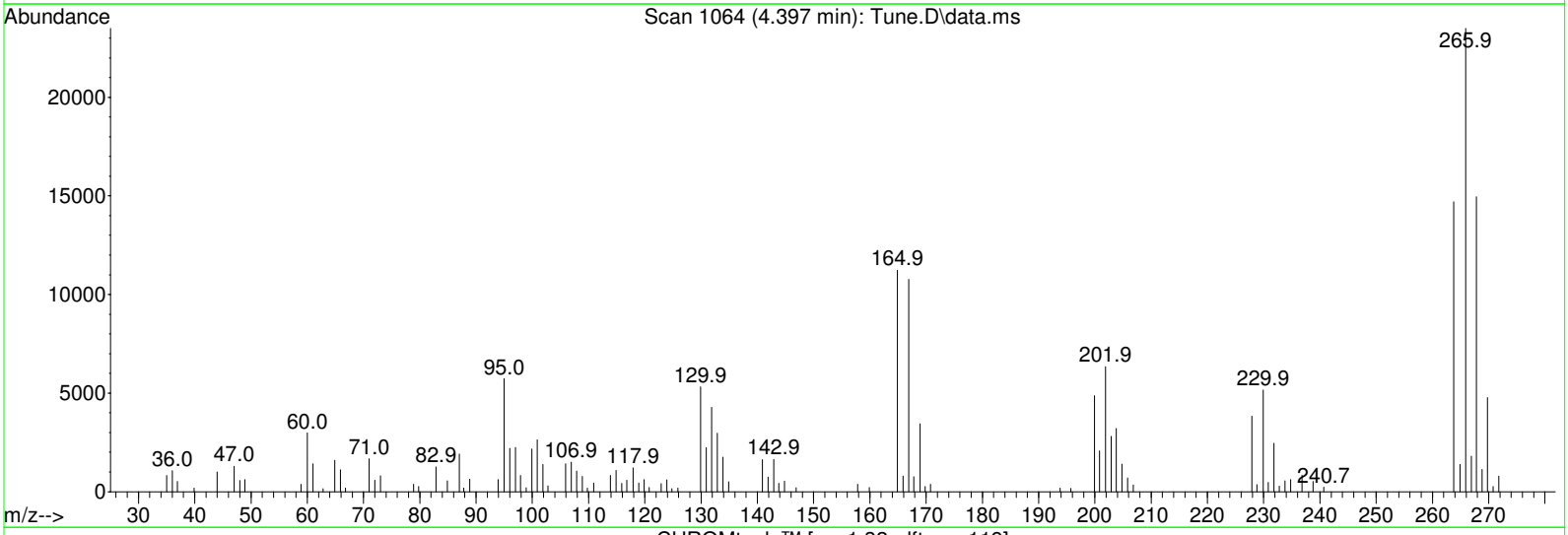
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	65.63
165.10	53.30	50.05
199.10	17.10	14.61

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : Tune.D
Acq On : 16 Sep 2020 03:13 pm
Operator : sv119:
Sample : wg-1,32,,dftppsv119
Misc : wg,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 16 15:35:24 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 09 09:04:00 2020
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools™ [wg-1,32,,dftppsv119]

(1) pentachlorophenol (T)

4.397min (-0.280) 8.45 Lin

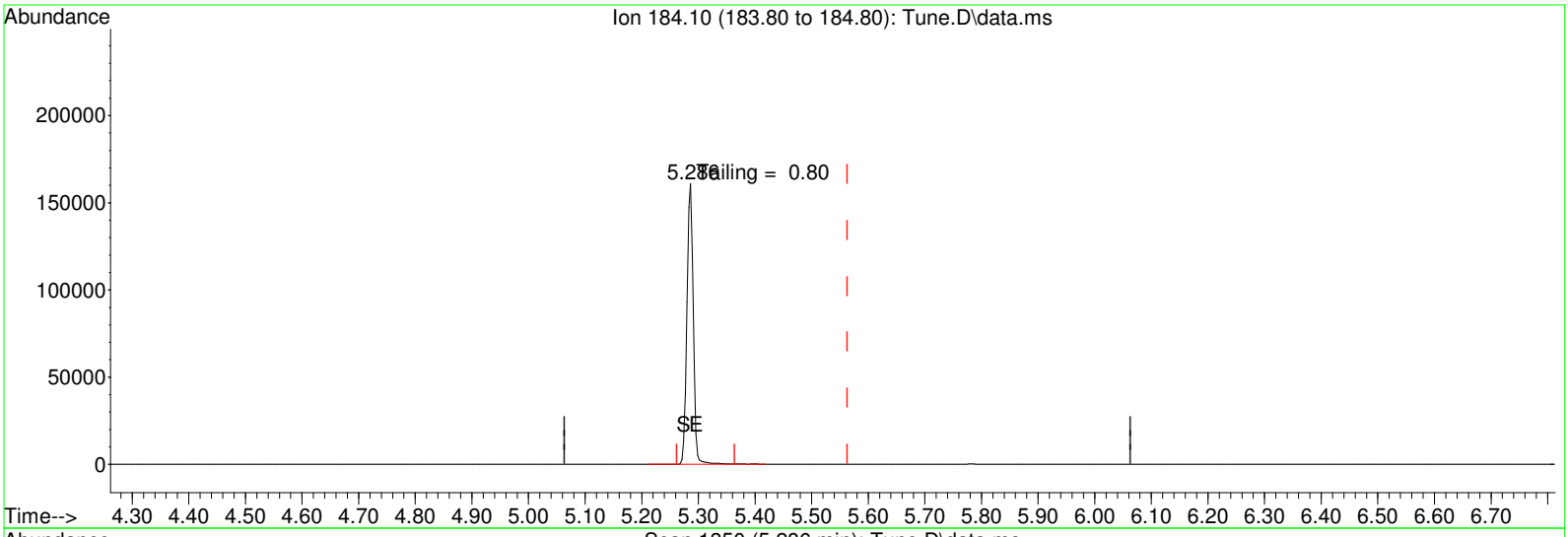
response 17749

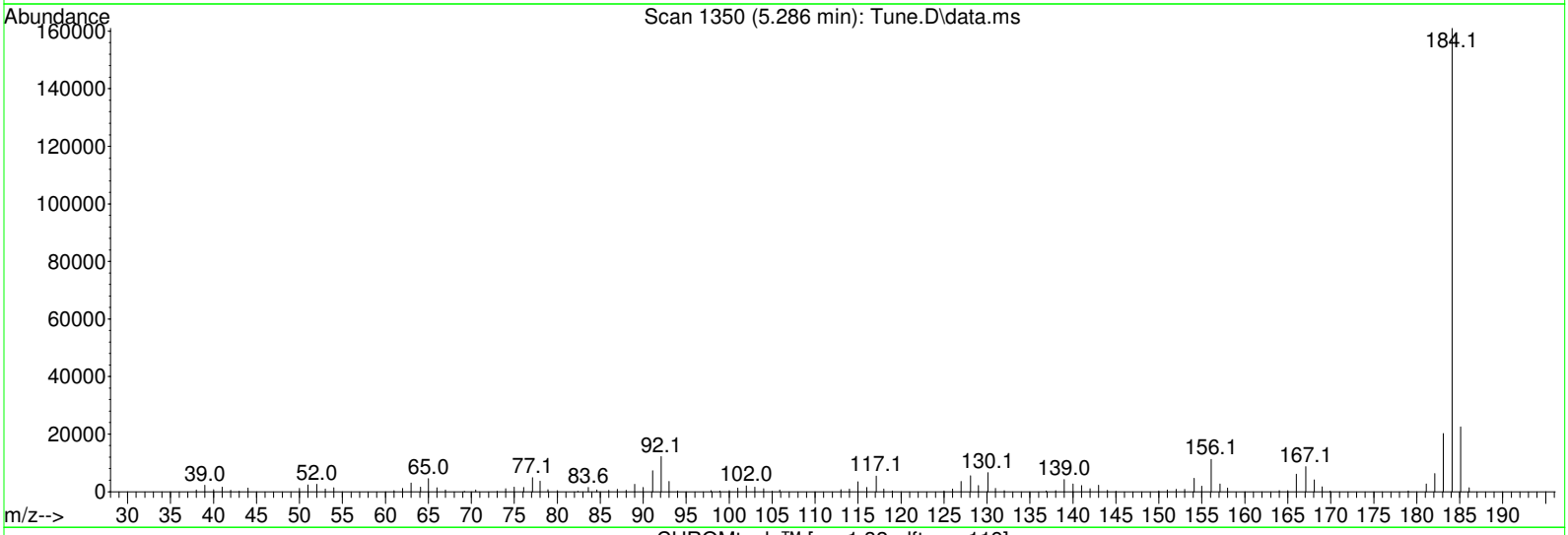
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : Tune.D
Acq On : 16 Sep 2020 03:13 pm
Operator : sv119:
Sample : wg-1,32,,dftppsv119
Misc : wg,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 16 15:35:24 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 09 09:04:00 2020
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools™ [wg-1,32,,dftppsv119]

(3) benzidine (T)

5.286min (-0.277) 12.34 Lin

response 125664

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : IL1.D
Acq On : 16 Sep 2020 03:32 pm
Operator : sv119:dv
Sample : IL1,32,,0.005
Misc : wg1410836,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 16 19:01:46 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:01:18 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\200916LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.686	152	15975	4000.000	ng/ml	0.00
Standard Area 1 = 18132			Recovery = 88.10%			
9) Naphthalene-d8	3.501	136	58977	4000.000	ng/ml	# 0.00
Standard Area 1 = 66092			Recovery = 89.23%			
17) Acenaphthene-d10	4.685	164	32333	4000.000	ng/ml	0.00
Standard Area 1 = 36178			Recovery = 89.37%			
21) Phenanthrene-d10	5.692	188	67458	4000.000	ng/ml	# 0.00
Standard Area 1 = 76284			Recovery = 88.43%			
30) Chrysene-d12	7.503	240	62125	4000.000	ng/ml	# 0.00
Standard Area 1 = 69774			Recovery = 89.04%			
34) Perylene-d12	8.513	264	57825	4000.000	ng/ml	0.00
Standard Area 1 = 64380			Recovery = 89.82%			
System Monitoring Compounds						
3) 2-Fluorophenol	0.000	112	0	0.000	ng/ml	
Spiked Amount 5.000	Range 15 - 110		Recovery = 0.00%#			
4) Phenol-d6	0.000	99	0	0.000	ng/ml	
Spiked Amount 5.000	Range 15 - 110		Recovery = 0.00%#			
8) Nitrobenzene-d5	0.000	82	0	0.000	ng/ml	
Spiked Amount 2.500	Range 30 - 130		Recovery = 0.00%#			
14) 2-Fluorobiphenyl	0.000	172	0d	0.000	ng/ml	
Spiked Amount 2.500	Range 30 - 130		Recovery = 0.00%#			
20) 2,4,6-Tribromophenol	0.000	330	0	0.000	ng/ml	
Spiked Amount 5.000	Range 15 - 110		Recovery = 0.00%#			
29) 4-Terphenyl-d14	0.000	244	0d	0.000	ng/ml	
Spiked Amount 2.500	Range 30 - 130		Recovery = 0.00%#			

Target Compounds			Qvalue
2) 1,4-Dioxane	0.000	0	N.D.
5) Bis(2-chloroethyl)ether	0.000	0	N.D.
6) n-nitrosodi-n-propylamine	0.000	0	N.D.
7) Hexachloroethane	0.000	0	N.D.
10) Naphthalene	0.000	0	N.D. d
11) Hexachlorobutadiene	0.000	0	N.D.
12) 2-Methylnaphthalene	0.000	0	N.D. d
13) 1-Methylnaphthalene	0.000	0	N.D. d
15) 2-Chloronaphthalene	0.000	0	N.D.
16) Acenaphthylene	0.000	0	N.D. d
18) Acenaphthene	0.000	0	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : IL1.D
Acq On : 16 Sep 2020 03:32 pm
Operator : sv119:dv
Sample : IL1,32,,0.005
Misc : wg1410836,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 16 19:01:46 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:01:18 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\200916LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) Fluorene	0.000		0	N.D.		
22) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
23) Hexachlorobenzene	5.436	284	24M2	5.528	ng/ml	
24) Pentachlorophenol	0.000		0	N.D.		
25) Phenanthrene	0.000		0	N.D.		d
26) Anthracene	0.000		0	N.D.		d
27) Fluoranthene	0.000		0	N.D.		d
28) Pyrene	0.000		0	N.D.		d
31) Benzo[a]anthracene	0.000		0	N.D.		d
32) Chrysene	0.000		0	N.D.		d
33) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.		d
35) Benzo[b]fluoranthene	0.000		0	N.D.		d
36) Benzo[k]fluoranthene	0.000		0	N.D.		d
37) Benzo[a]pyrene	0.000		0	N.D.		d
38) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
39) Dibenzo[a,h]anthracene	0.000		0	N.D.		d
40) Benzo[g,h,i]perylene	0.000		0	N.D.		d

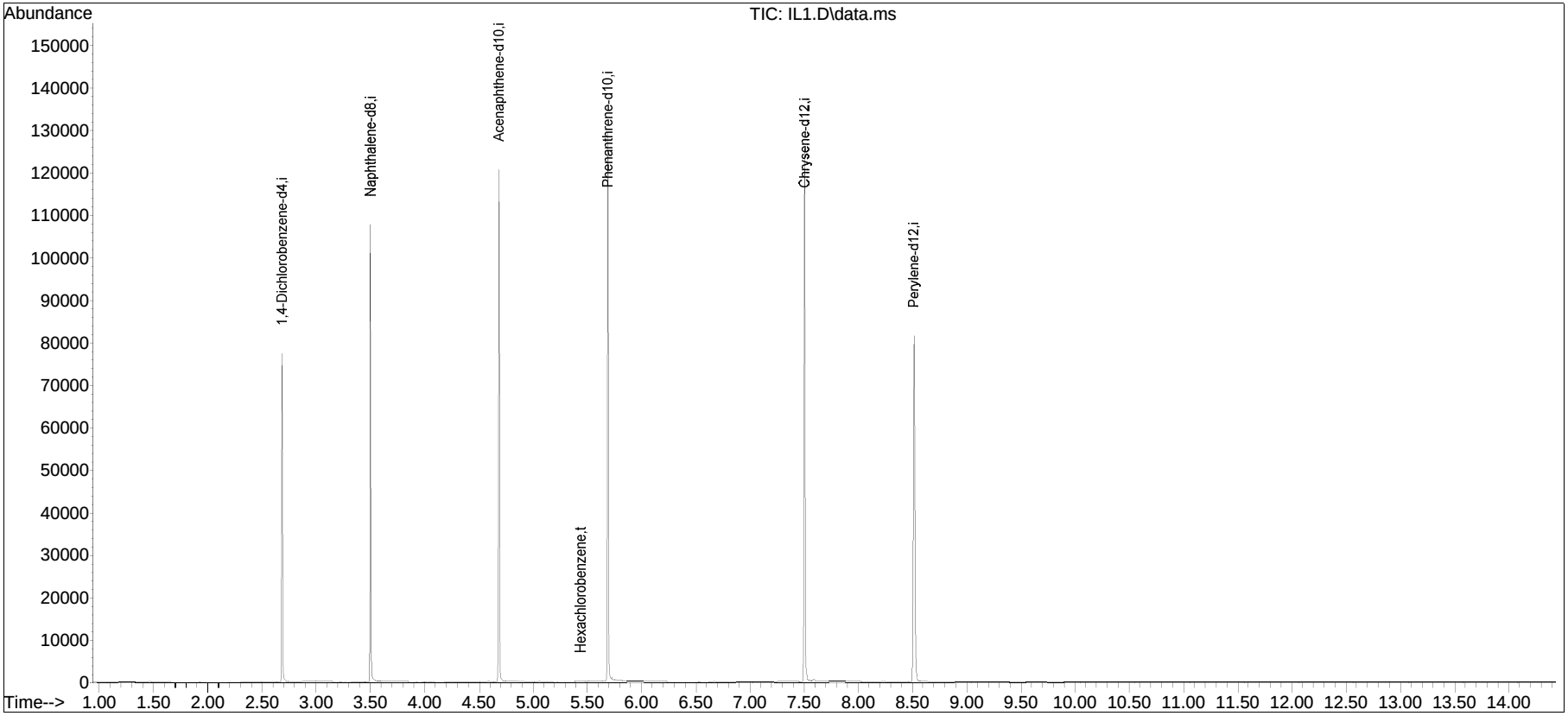
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : IL1.D
Acq On : 16 Sep 2020 03:32 pm
Operator : sv119:dv
Sample : IL1,32,,0.005
Misc : wg1410836,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 16 19:01:46 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:01:18 2020
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL7.D•

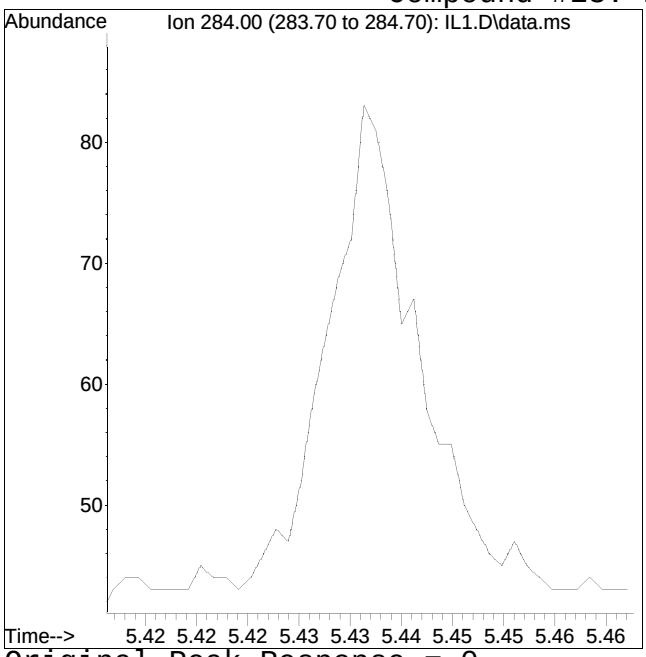


Manual Integration Report

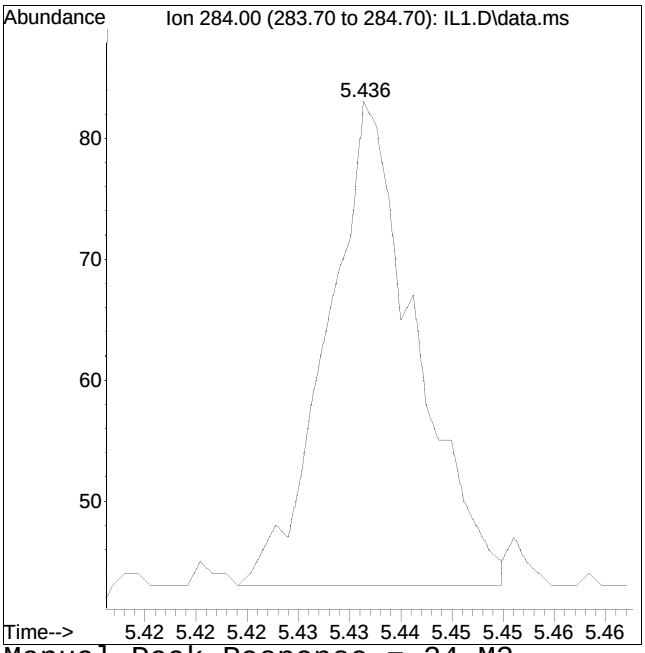
Data Path : I:\8270SIM\sv119\200916LVIQ
Data File : IL1.D
Date Inj'd : 9/16/2020 3:32 pm
Sample : IL1,32,,0.005

Method : SIM-LVI_200916_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 9/16/2020 7:01 pm

Compound #23: Hexachlorobenzene



Original Peak Response = 0



Manual Peak Response = 24 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : IL2.D
Acq On : 16 Sep 2020 03:52 pm
Operator : sv119:dv
Sample : IL2,32,,0.01
Misc : wg1410836,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 16 19:01:56 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:01:18 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\200916LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.686	152	16476	4000.000	ng/ml	0.00
Standard Area 1 = 18132			Recovery = 90.87%			
9) Naphthalene-d8	3.503	136	59982	4000.000	ng/ml #	0.00
Standard Area 1 = 66092			Recovery = 90.76%			
17) Acenaphthene-d10	4.686	164	33042	4000.000	ng/ml	0.00
Standard Area 1 = 36178			Recovery = 91.33%			
21) Phenanthrene-d10	5.693	188	70088	4000.000	ng/ml #	0.00
Standard Area 1 = 76284			Recovery = 91.88%			
30) Chrysene-d12	7.502	240	65279	4000.000	ng/ml #	0.00
Standard Area 1 = 69774			Recovery = 93.56%			
34) Perylene-d12	8.511	264	60171	4000.000	ng/ml	0.00
Standard Area 1 = 64380			Recovery = 93.46%			
System Monitoring Compounds						
3) 2-Fluorophenol	0.000	112	0	0.000	ng/ml	
Spiked Amount 5.000	Range 15 - 110		Recovery = 0.00%#			
4) Phenol-d6	2.493	99	43	8.952	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 179.04%#			
8) Nitrobenzene-d5	0.000	82	0	0.000	ng/ml	
Spiked Amount 2.500	Range 30 - 130		Recovery = 0.00%#			
14) 2-Fluorobiphenyl	4.248	172	127	10.092	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 403.68%#			
20) 2,4,6-Tribromophenol	0.000	330	0	0.000	ng/ml	
Spiked Amount 5.000	Range 15 - 110		Recovery = 0.00%#			
29) 4-Terphenyl-d14	6.812	244	140	10.329	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 413.16%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	0.000		0	N.D.		
6) n-nitrosodi-n-propylamine	0.000		0	N.D.		
7) Hexachloroethane	0.000		0	N.D.		
10) Naphthalene	3.517	128	167	10.830	ng/ml#	69
11) Hexachlorobutadiene	0.000		0	N.D.		
12) 2-Methylnaphthalene	0.000		0	N.D. d		
13) 1-Methylnaphthalene	0.000		0	N.D. d		
15) 2-Chloronaphthalene	0.000		0	N.D. d		
16) Acenaphthylene	4.587	152	166	10.004	ng/ml#	56
18) Acenaphthene	4.707	153	120	10.434	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : IL2.D
Acq On : 16 Sep 2020 03:52 pm
Operator : sv119:dv
Sample : IL2,32,,0.01
Misc : wg1410836,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 16 19:01:56 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:01:18 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\200916LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) Fluorene	5.062	166	118	10.066	ng/ml	91
22) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
23) Hexachlorobenzene	5.436	284	50M2	11.085	ng/ml	
24) Pentachlorophenol	0.000		0	N.D.		
25) Phenanthrene	5.709	178	211	10.938	ng/ml#	89
26) Anthracene	5.746	178	185	10.082	ng/ml#	63
27) Fluoranthene	6.522	202	221	10.705	ng/ml#	71
28) Pyrene	6.670	202	232	10.856	ng/ml#	54
31) Benzo[a]anthracene	7.498	228	392	10.365	ng/ml	90
32) Chrysene	7.517	228	225	10.570	ug/ml	98
33) Bis(2-ethylhexyl)phtha...	7.589	149	185	16.037	ng/ml	96
35) Benzo[b]fluoranthene	8.221	252	186	9.915	ng/ml#	54
36) Benzo[k]fluoranthene	8.239	252	184M6	9.735	ng/ml	
37) Benzo[a]pyrene	8.460	252	163	10.134	ng/ml#	54
38) Indeno[1,2,3-cd]pyrene	9.487	276	139M1	9.181	ng/ml	
39) Dibenzo[a,h]anthracene	9.526	278	135M6	8.963	ng/ml	
40) Benzo[g,h,i]perylene	9.757	276	156	9.179	ng/ml#	74

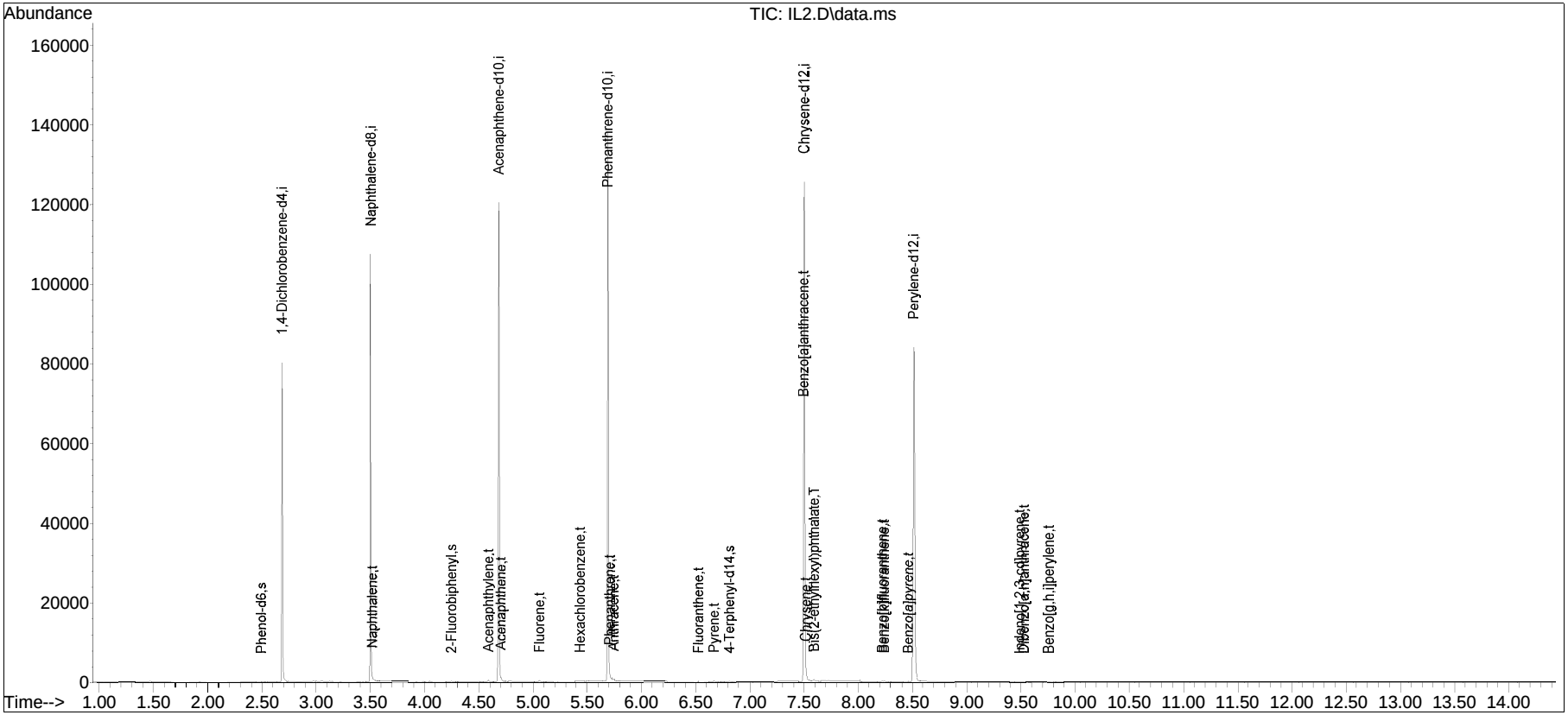
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : IL2.D
Acq On : 16 Sep 2020 03:52 pm
Operator : sv119:dv
Sample : IL2,32,,0.01
Misc : wg1410836,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 16 19:01:56 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:01:18 2020
Response via : Initial Calibration

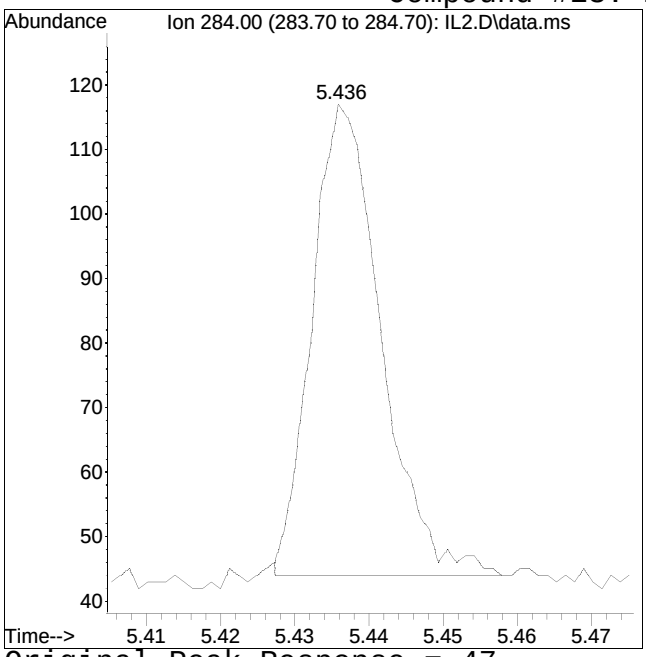
Sub List : Default - All compounds listedical\IL7.D•



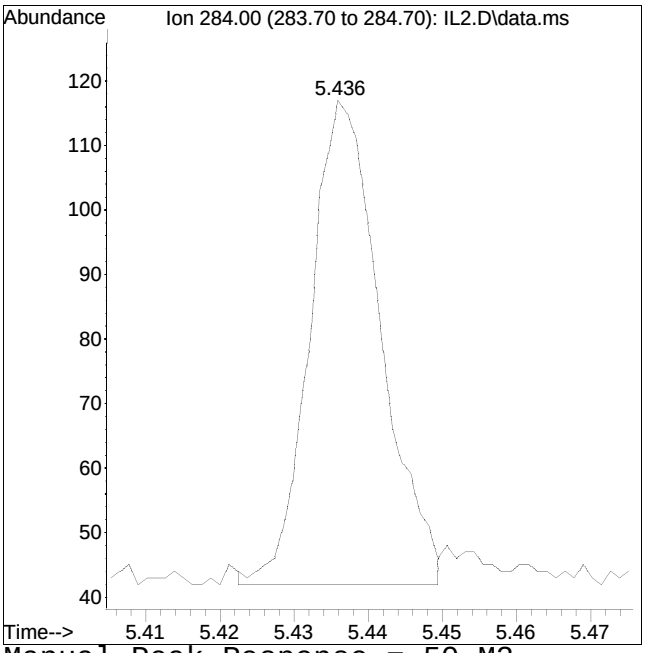
Manual Integration Report

Data Path : I:\8270SIM\sv119\200916LVIQMethod : SIM-LVI_200916_sv119.M
Data File : IL2.D Operator : sv119:dv
Date Inj'd : 9/16/2020 3:52 pm Instrument : SV119
Sample : IL2,32,,0.01 Quant Date : 9/16/2020 7:01 pm

Compound #23: Hexachlorobenzene



Original Peak Response = 47



Manual Peak Response = 50 M2

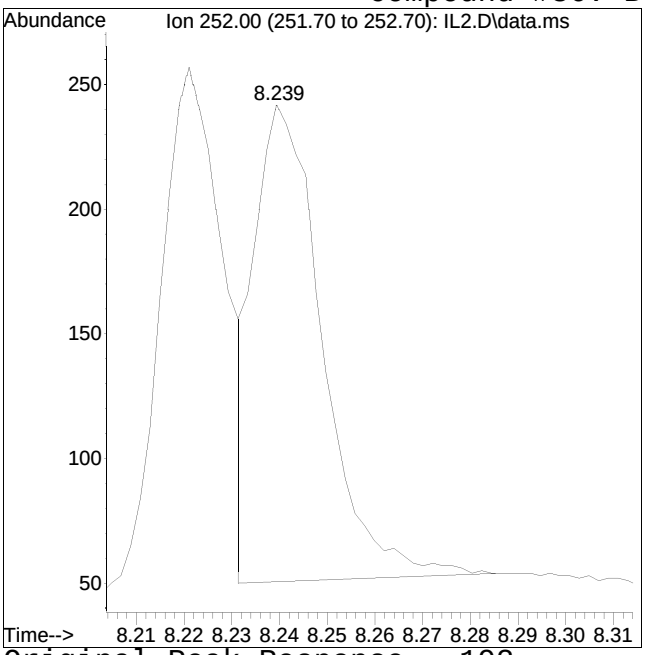
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

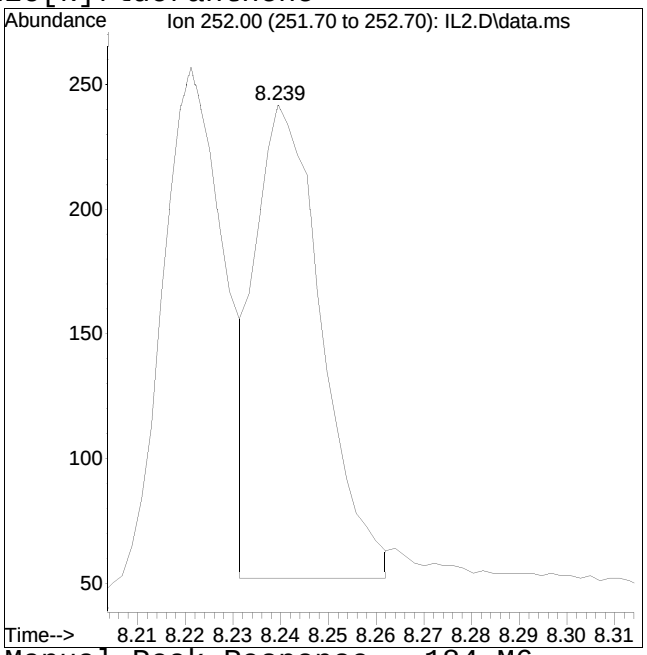
Data Path : I:\8270SIM\sv119\200916LVIQ
Data File : IL2.D
Date Inj'd : 9/16/2020 3:52 pm
Sample : IL2,32,,0.01

Method : SIM-LVI_200916_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 9/16/2020 7:01 pm

Compound #36: Benzo[k]fluoranthene



Original Peak Response = 192



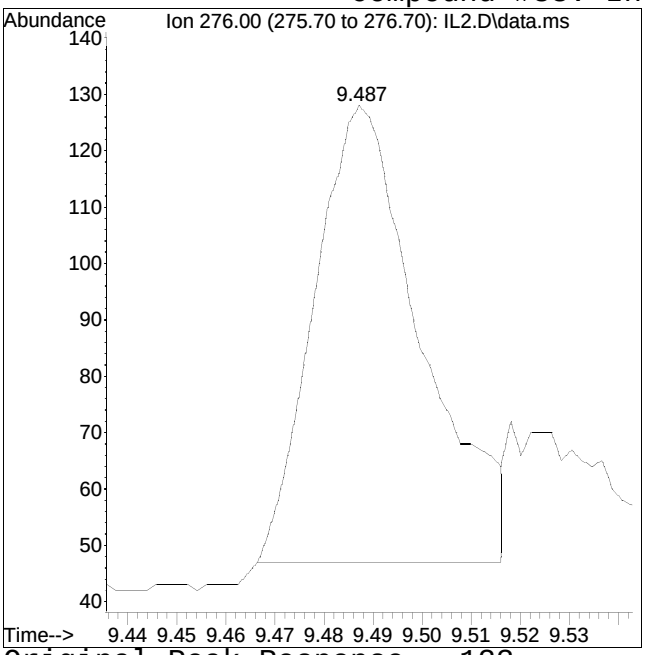
Manual Peak Response = 184 M6

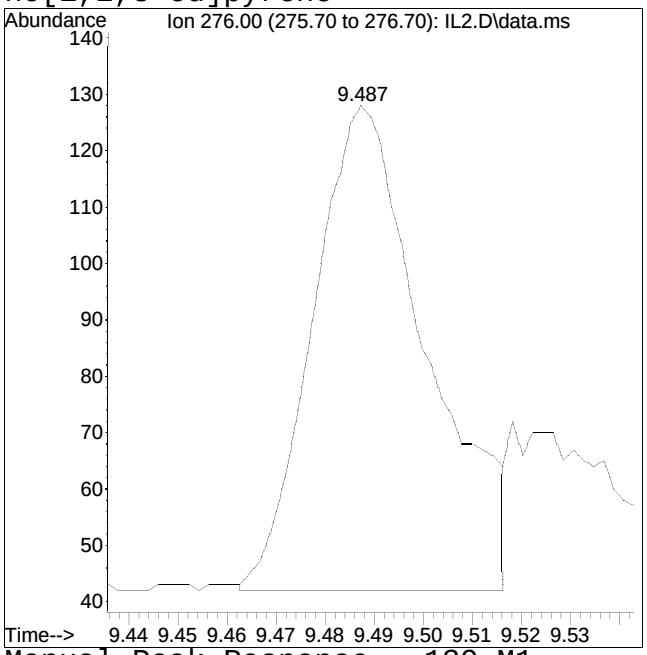
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv119\200916LVIQMethod : SIM-LVI_200916_sv119.M
Data File : IL2.D Operator : sv119:dv
Date Inj'd : 9/16/2020 3:52 pm Instrument : SV119
Sample : IL2,32,,0.01 Quant Date : 9/16/2020 7:01 pm

Compound #38: Indeno[1,2,3-cd]pyrene



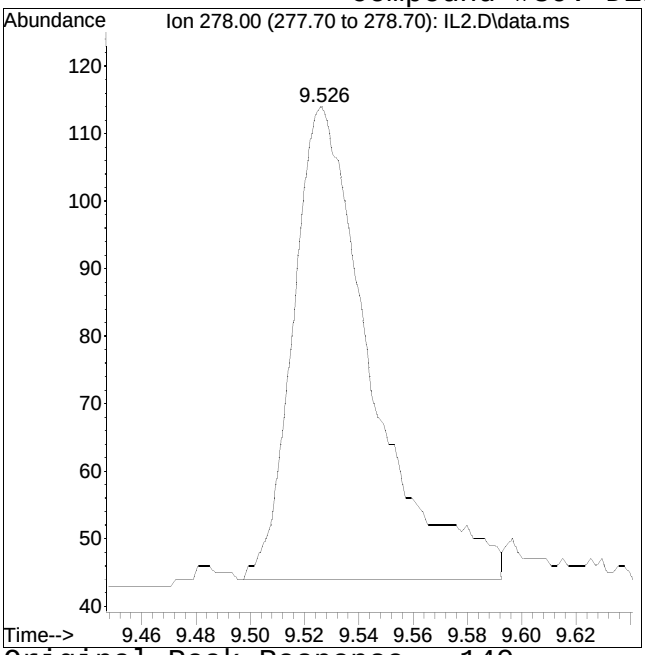


Original Peak Response = 123 Manual Peak Response = 139 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

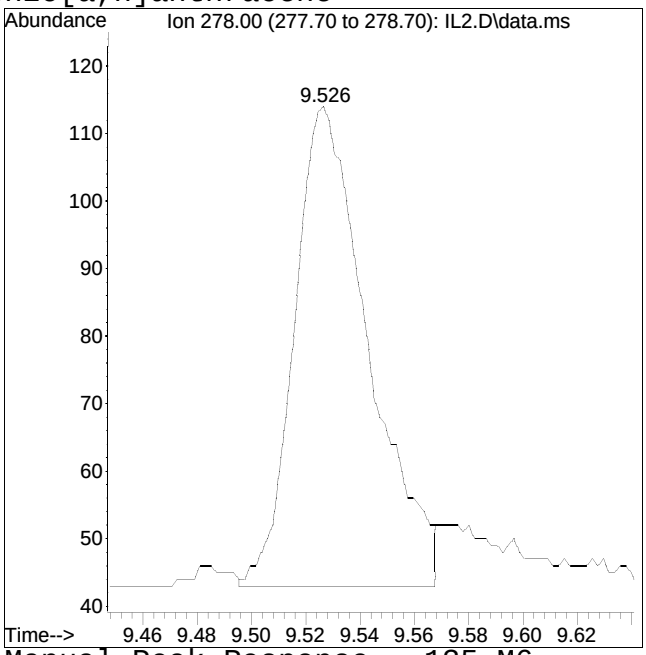
Manual Integration Report

Data Path : I:\8270SIM\sv119\200916LVIQMethod : SIM-LVI_200916_sv119.M
Data File : IL2.D Operator : sv119:dv
Date Inj'd : 9/16/2020 3:52 pm Instrument : SV119
Sample : IL2,32,,0.01 Quant Date : 9/16/2020 7:01 pm

Compound #39: Dibenzo[a,h]anthracene



Original Peak Response = 140



Manual Peak Response = 135 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : IL3.D
Acq On : 16 Sep 2020 04:13 pm
Operator : sv119:dv
Sample : IL3,32,,0.025
Misc : wg1410836,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 16 19:11:50 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:11:48 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\200916LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.688	152	16281	4000.000	ng/ml	0.00
Standard Area 1 = 18132			Recovery = 89.79%			
9) Naphthalene-d8	3.504	136	59872	4000.000	ng/ml #	0.00
Standard Area 1 = 66092			Recovery = 90.59%			
17) Acenaphthene-d10	4.686	164	32570	4000.000	ng/ml	0.00
Standard Area 1 = 36178			Recovery = 90.03%			
21) Phenanthrene-d10	5.694	188	67975	4000.000	ng/ml #	0.00
Standard Area 1 = 76284			Recovery = 89.11%			
30) Chrysene-d12	7.500	240	62907	4000.000	ng/ml #	0.00
Standard Area 1 = 69774			Recovery = 90.16%			
34) Perylene-d12	8.508	264	59009	4000.000	ng/ml	0.00
Standard Area 1 = 64380			Recovery = 91.66%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.925	112	95M1	23.533	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 470.66%#			
4) Phenol-d6	2.493	99	110	23.175	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 463.50%#			
8) Nitrobenzene-d5	3.048	82	99	23.543	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 941.72%#			
14) 2-Fluorobiphenyl	4.247	172	310	24.678	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 987.12%#			
20) 2,4,6-Tribromophenol	5.226	330	41M6	21.971	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 439.42%#			
29) 4-Terphenyl-d14	6.809	244	324M6	24.648	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 985.92%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.041	88	42	23.656	ng/ml#	100
5) Bis(2-chloroethyl)ether	3.376	93	101	21.156	ng/ml#	81
6) n-nitrosodi-n-propylamine	2.969	70	61	22.722	ng/ml#	52
7) Hexachloroethane	3.002	117	52	25.776	ng/ml	86
10) Naphthalene	3.517	128	392	25.466	ng/ml#	69
11) Hexachlorobutadiene	3.618	225	84	26.747	ng/ml#	19
12) 2-Methylnaphthalene	3.987	142	234	23.342	ng/ml	98
13) 1-Methylnaphthalene	4.050	142	222	23.411	ng/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : IL3.D
Acq On : 16 Sep 2020 04:13 pm
Operator : sv119:dv
Sample : IL3,32,,0.025
Misc : wg1410836,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 16 19:11:50 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:11:48 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\200916LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Chloronaphthalene	4.310	162	239	23.452	ng/ml	99
16) Acenaphthylene	4.587	152	409	24.692	ng/ml	98
18) Acenaphthene	4.707	153	294	25.934	ng/ml	98
19) Fluorene	5.060	166	279M6	24.144	ng/ml	
22) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
23) Hexachlorobenzene	5.437	284	107	24.460	ng/ml#	36
24) Pentachlorophenol	5.579	266	14M6	31.379	ng/ml	
25) Phenanthrene	5.708	178	487	26.030	ng/ml	100
26) Anthracene	5.743	178	430	24.163	ng/ml	94
27) Fluoranthene	6.520	202	508	25.372	ng/ml	95
28) Pyrene	6.669	202	526	25.378	ng/ml	96
31) Benzo[a]anthracene	7.496	228	661	24.994	ng/ml#	88
32) Chrysene	7.516	228	540	26.326	ug/ml	100
33) Bis(2-ethylhexyl)phtha...	7.588	149	305	27.436	ng/ml	100
35) Benzo[b]fluoranthene	8.216	252	439	23.862	ng/ml	98
36) Benzo[k]fluoranthene	8.236	252	478M1	25.780	ng/ml	
37) Benzo[a]pyrene	8.459	252	392	24.849	ng/ml	99
38) Indeno[1,2,3-cd]pyrene	9.484	276	332	22.358	ng/ml#	36
39) Dibenzo[a,h]anthracene	9.521	278	326M6	22.069	ng/ml	
40) Benzo[g,h,i]perylene	9.754	276	419	25.139	ng/ml#	65

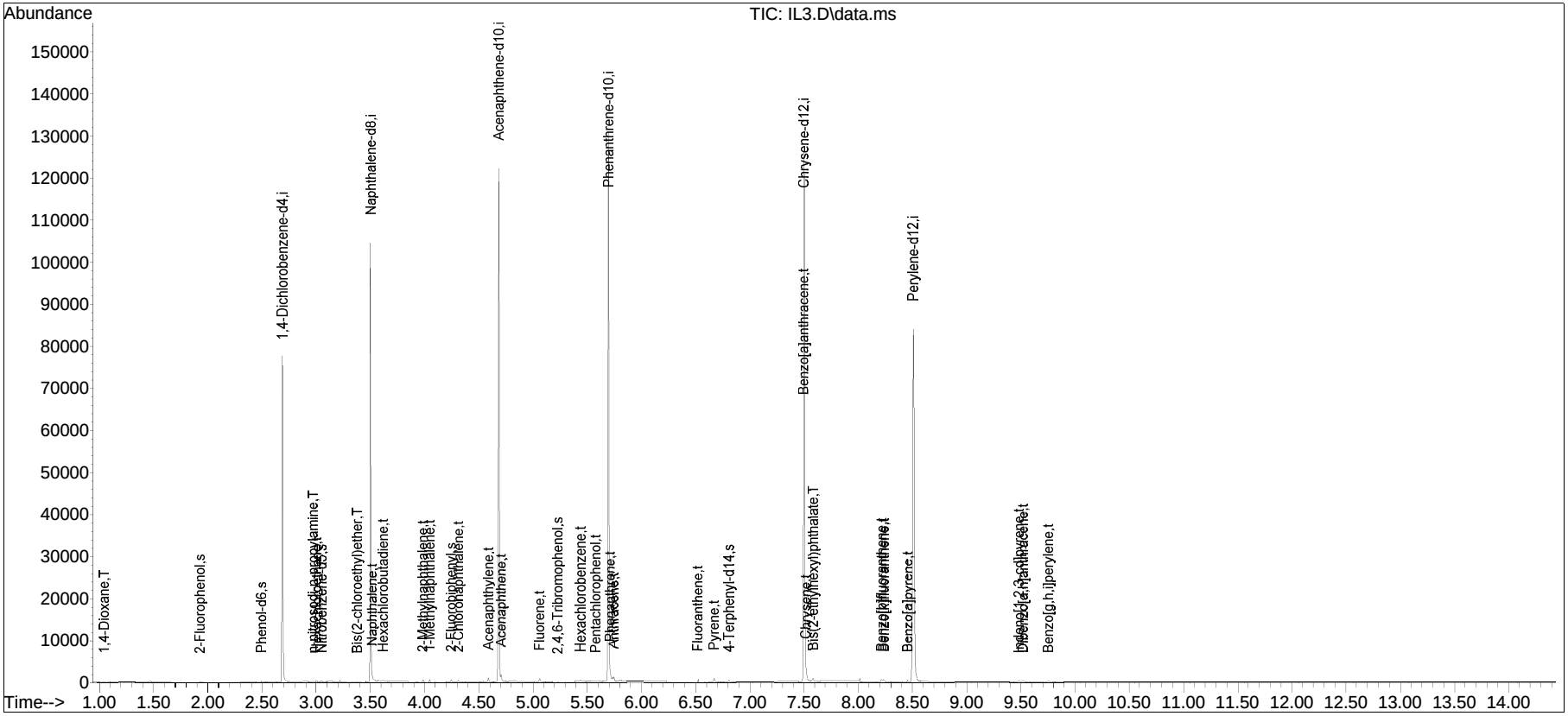
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : IL3.D
Acq On : 16 Sep 2020 04:13 pm
Operator : sv119:dv
Sample : IL3,32,,0.025
Misc : wg1410836,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 16 19:11:50 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:11:48 2020
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL7.D•

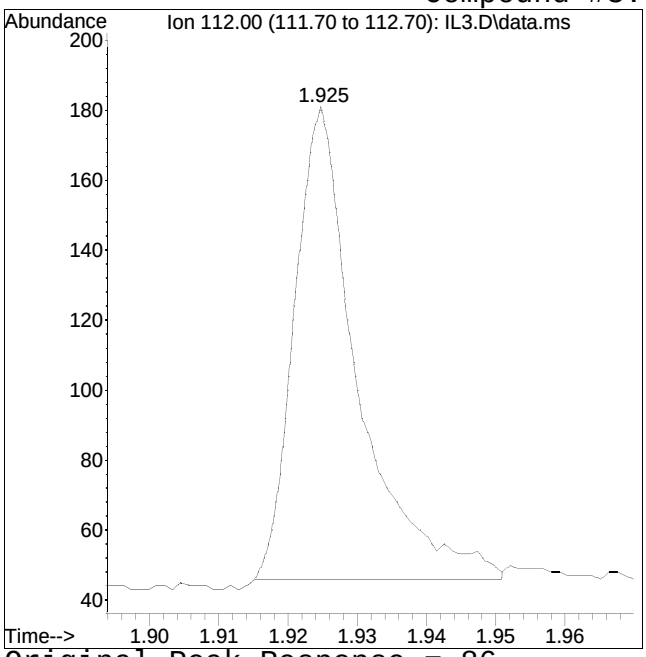


Manual Integration Report

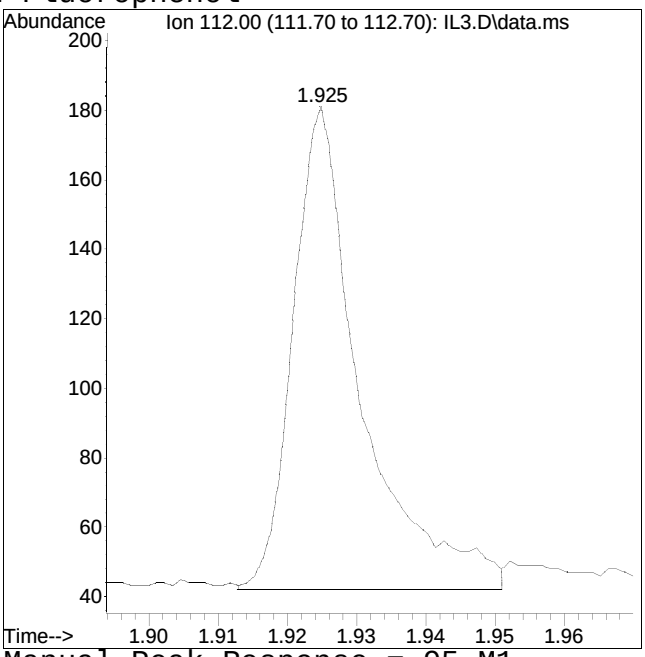
Data Path : I:\8270SIM\sv119\200916LVIQ
Data File : IL3.D
Date Inj'd : 9/16/2020 4:13 pm
Sample : IL3,32,,0.025

Method : SIM-LVI_200916_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 9/16/2020 7:11 pm

Compound #3: 2-Fluorophenol



Original Peak Response = 86



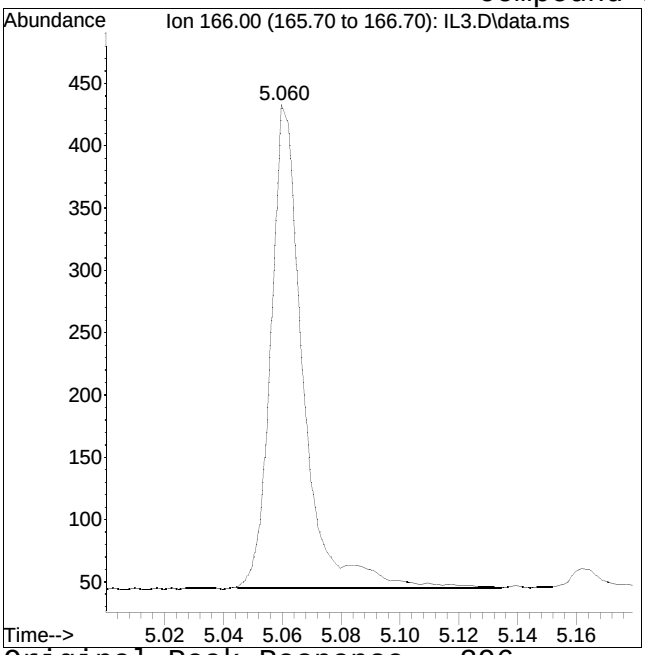
Manual Peak Response = 95 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

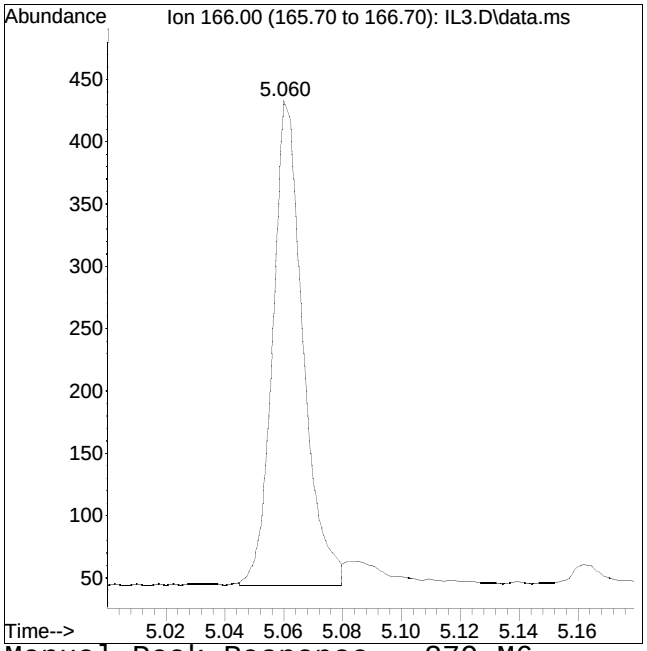
Manual Integration Report

Data Path : I:\8270SIM\sv119\200916LVIQMethod : SIM-LVI_200916_sv119.M
Data File : IL3.D Operator : sv119:dv
Date Inj'd : 9/16/2020 4:13 pm Instrument : SV119
Sample : IL3,32,,0.025 Quant Date : 9/16/2020 7:11 pm

Compound #19: Fluorene



Original Peak Response = 296



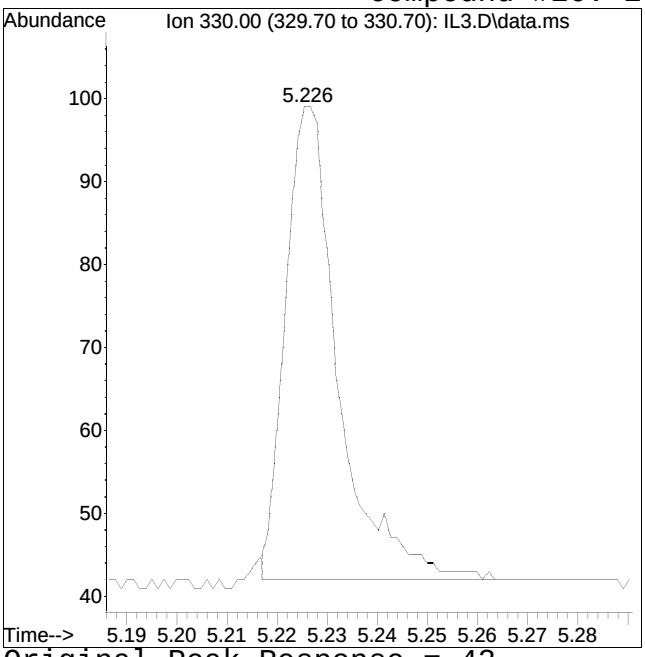
Manual Peak Response = 279 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

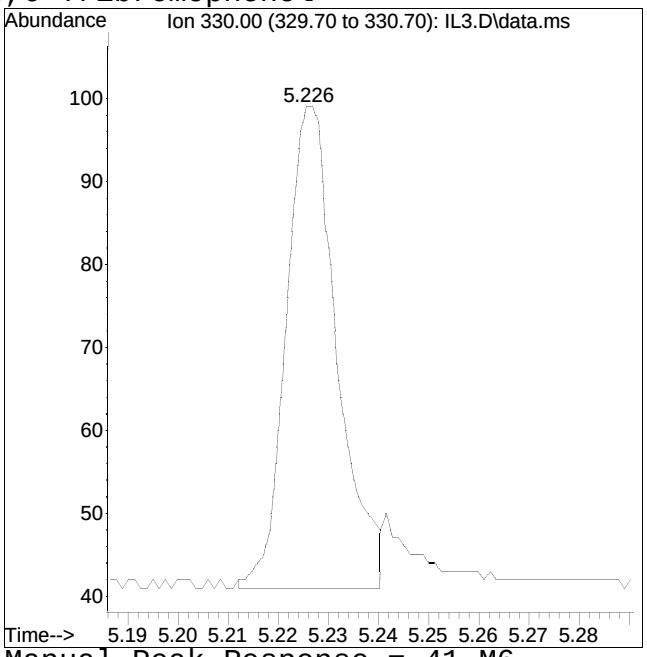
Manual Integration Report

Data Path : I:\8270SIM\sv119\200916LVIQMethod : SIM-LVI_200916_sv119.M
Data File : IL3.D Operator : sv119:dv
Date Inj'd : 9/16/2020 4:13 pm Instrument : SV119
Sample : IL3,32,,0.025 Quant Date : 9/16/2020 7:11 pm

Compound #20: 2,4,6-Tribromophenol



Original Peak Response = 42



Manual Peak Response = 41 M6

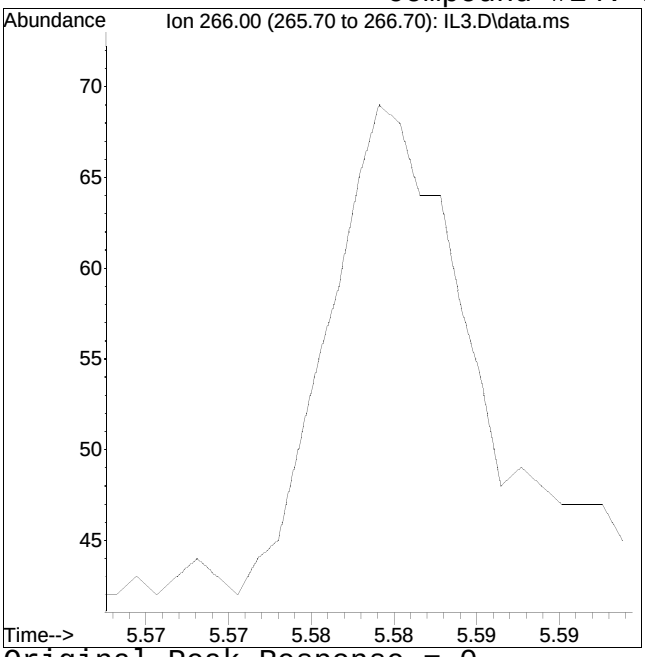
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

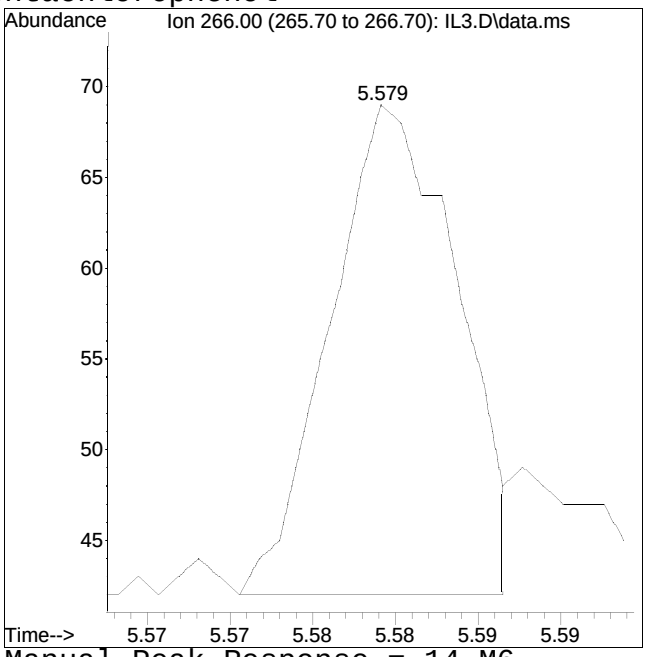
Data Path : I:\8270SIM\sv119\200916LVIQ
Data File : IL3.D
Date Inj'd : 9/16/2020 4:13 pm
Sample : IL3,32,,0.025

Method : SIM-LVI_200916_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 9/16/2020 7:11 pm

Compound #24: Pentachlorophenol



Original Peak Response = 0



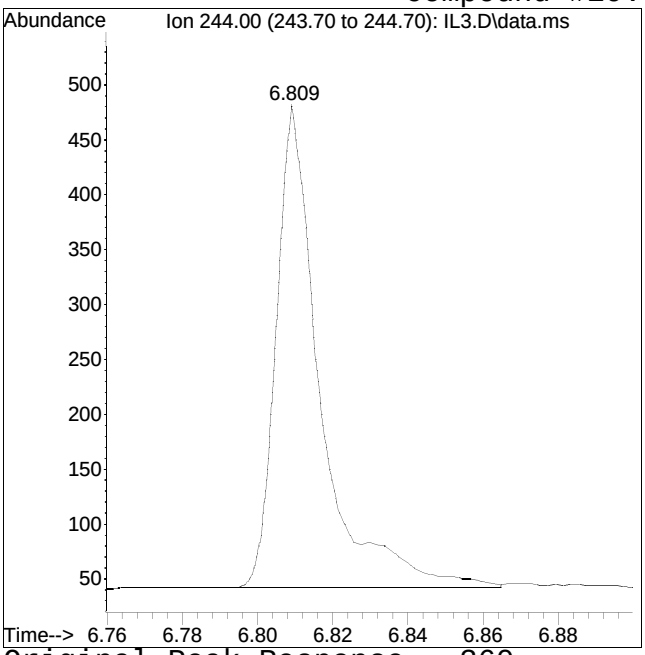
Manual Peak Response = 14 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

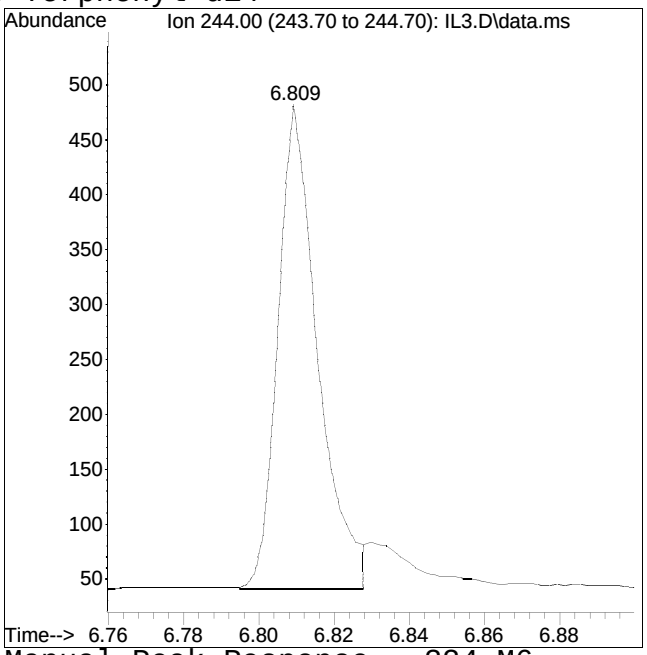
Manual Integration Report

Data Path : I:\8270SIM\sv119\200916LVIQMethod : SIM-LVI_200916_sv119.M
Data File : IL3.D Operator : sv119:dv
Date Inj'd : 9/16/2020 4:13 pm Instrument : SV119
Sample : IL3,32,,0.025 Quant Date : 9/16/2020 7:11 pm

Compound #29: 4-Terphenyl-d14



Original Peak Response = 360



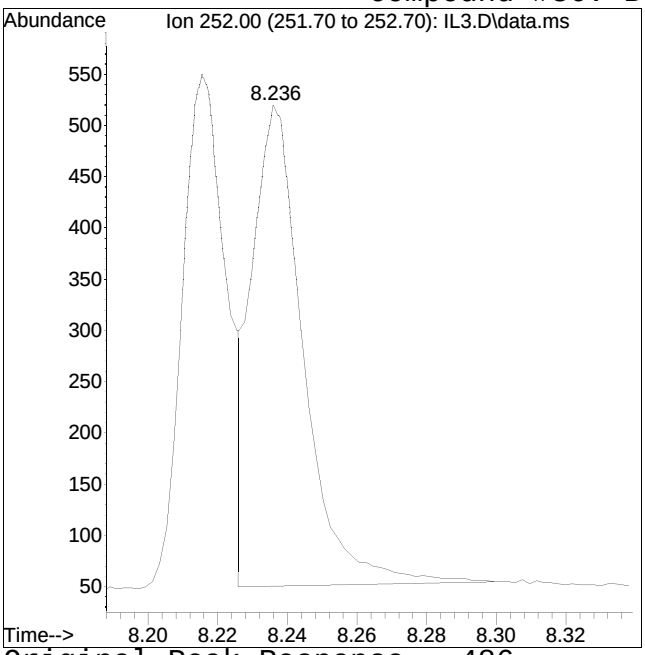
Manual Peak Response = 324 M6

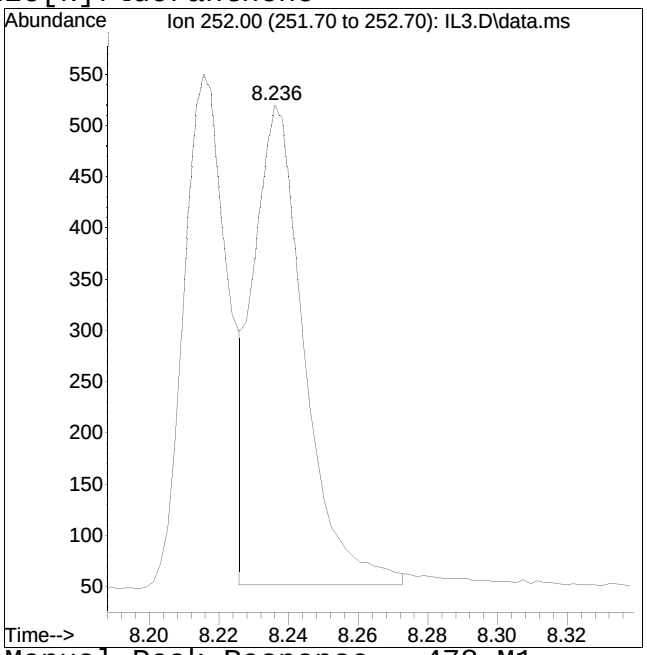
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv119\200916LVIQMethod : SIM-LVI_200916_sv119.M
Data File : IL3.D Operator : sv119:dv
Date Inj'd : 9/16/2020 4:13 pm Instrument : SV119
Sample : IL3,32,,0.025 Quant Date : 9/16/2020 7:11 pm

Compound #36: Benzo[k]fluoranthene



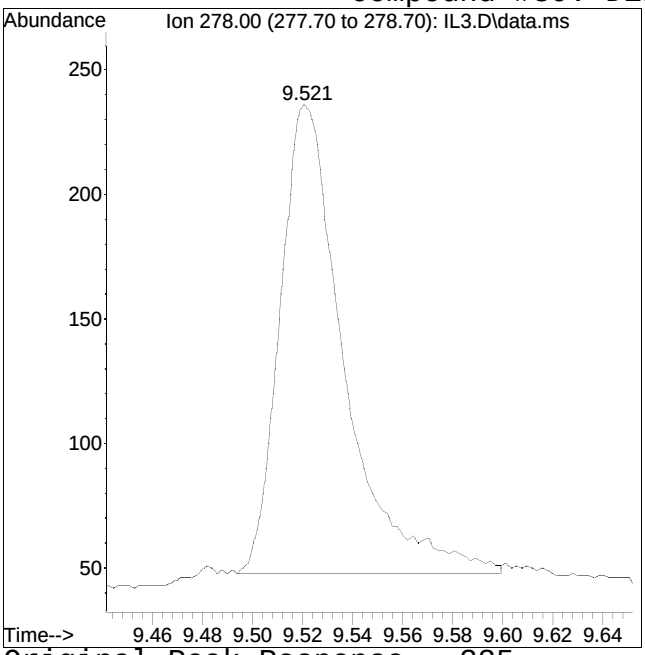


Original Peak Response = 486 Manual Peak Response = 478 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

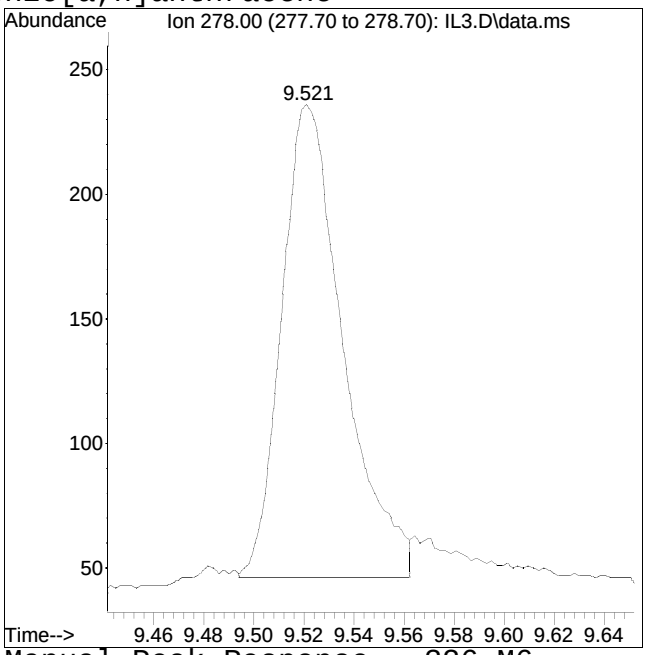
Manual Integration Report

Data Path : I:\8270SIM\sv119\200916LVIQMethod : SIM-LVI_200916_sv119.M
Data File : IL3.D Operator : sv119:dv
Date Inj'd : 9/16/2020 4:13 pm Instrument : SV119
Sample : IL3,32,,0.025 Quant Date : 9/16/2020 7:11 pm

Compound #39: Dibenzo[a,h]anthracene



Original Peak Response = 335



Manual Peak Response = 326 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : IL4.D
Acq On : 16 Sep 2020 04:33 pm
Operator : sv119:dv
Sample : IL4,32,,0.05
Misc : wg1410836,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 16 19:02:06 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:01:18 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\200916LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.688	152	16372	4000.000	ng/ml	0.00
Standard Area 1 = 18132			Recovery = 90.29%			
9) Naphthalene-d8	3.504	136	60186	4000.000	ng/ml	# 0.00
Standard Area 1 = 66092			Recovery = 91.06%			
17) Acenaphthene-d10	4.686	164	33438	4000.000	ng/ml	0.00
Standard Area 1 = 36178			Recovery = 92.43%			
21) Phenanthrene-d10	5.693	188	70699	4000.000	ng/ml	# 0.00
Standard Area 1 = 76284			Recovery = 92.68%			
30) Chrysene-d12	7.503	240	65520	4000.000	ng/ml	# 0.00
Standard Area 1 = 69774			Recovery = 93.90%			
34) Perylene-d12	8.510	264	60199	4000.000	ng/ml	0.00
Standard Area 1 = 64380			Recovery = 93.51%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.924	112	188	46.311	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 926.22%#			
4) Phenol-d6	2.493	99	232	48.606	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 972.12%#			
8) Nitrobenzene-d5	3.046	82	211	49.899	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 1995.96%#			
14) 2-Fluorobiphenyl	4.247	172	663	52.507	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 2100.28%#			
20) 2,4,6-Tribromophenol	5.226	330	86	44.889	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 897.78%#			
29) 4-Terphenyl-d14	6.811	244	680M6	49.737	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 1989.48%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.037	88	87	48.729	ng/ml#	100
5) Bis(2-chloroethyl)ether	3.376	93	211	43.951	ng/ml	92
6) n-nitrosodi-n-propylamine	2.967	70	138	51.119	ng/ml#	52
7) Hexachloroethane	3.004	117	108	53.237	ng/ml	89
10) Naphthalene	3.517	128	804	51.961	ng/ml	97
11) Hexachlorobutadiene	3.618	225	163	51.634	ng/ml	100
12) 2-Methylnaphthalene	3.986	142	496	49.223	ng/ml	98
13) 1-Methylnaphthalene	4.050	142	495	51.931	ng/ml	99
15) 2-Chloronaphthalene	4.310	162	511	49.884	ng/ml	100
16) Acenaphthylene	4.587	152	828	49.729	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : IL4.D
Acq On : 16 Sep 2020 04:33 pm
Operator : sv119:dv
Sample : IL4,32,,0.05
Misc : wg1410836,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 16 19:02:06 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:01:18 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\200916LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Acenaphthene	4.705	153	593	50.951	ng/ml	99
19) Fluorene	5.060	166	586M6	49.395	ng/ml	
22) 4,6-Dinitro-o-cresol	5.117	198	19M2	81.297	ng/ml	
23) Hexachlorobenzene	5.437	284	230	50.551	ng/ml	87
24) Pentachlorophenol	5.579	266	33M2	55.146	ng/ml	
25) Phenanthrene	5.709	178	994	51.083	ng/ml	99
26) Anthracene	5.745	178	921	49.760	ng/ml	99
27) Fluoranthene	6.522	202	1072	51.477	ng/ml	94
28) Pyrene	6.669	202	1104	51.212	ng/ml	97
31) Benzo[a]anthracene	7.496	228	1196	50.163	ng/ml#	83
32) Chrysene	7.518	228	1110	51.956	ug/ml	98
33) Bis(2-ethylhexyl)phtha...	7.588	149	587	50.697	ng/ml	99
35) Benzo[b]fluoranthene	8.218	252	934	49.767	ng/ml	99
36) Benzo[k]fluoranthene	8.238	252	918M6	48.545	ng/ml	
37) Benzo[a]pyrene	8.459	252	781	48.532	ng/ml	99
38) Indeno[1,2,3-cd]pyrene	9.486	276	704	46.476	ng/ml#	64
39) Dibenzo[a,h]anthracene	9.521	278	683	45.326	ng/ml#	66
40) Benzo[g,h,i]perylene	9.754	276	842	49.519	ng/ml#	66

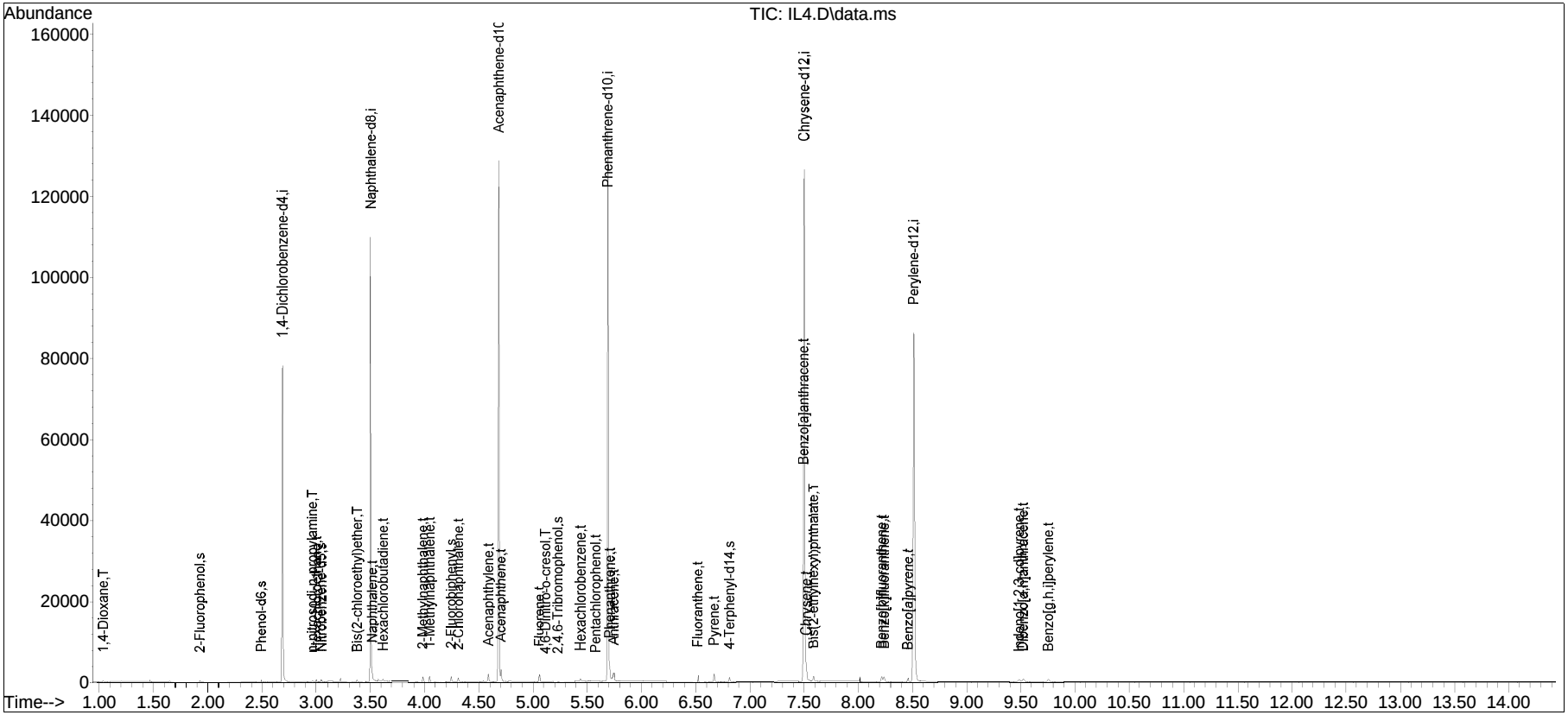
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : IL4.D
Acq On : 16 Sep 2020 04:33 pm
Operator : sv119:dv
Sample : IL4,32,,0.05
Misc : wg1410836,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 16 19:02:06 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:01:18 2020
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL7.D•

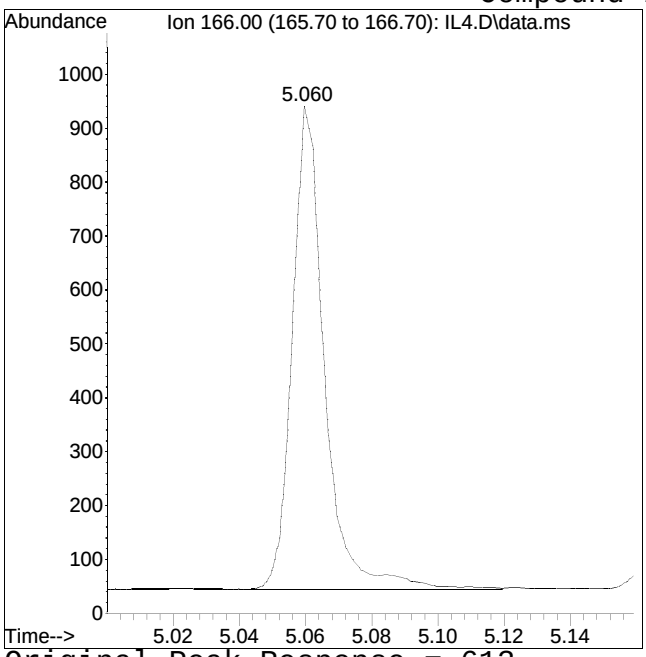


Manual Integration Report

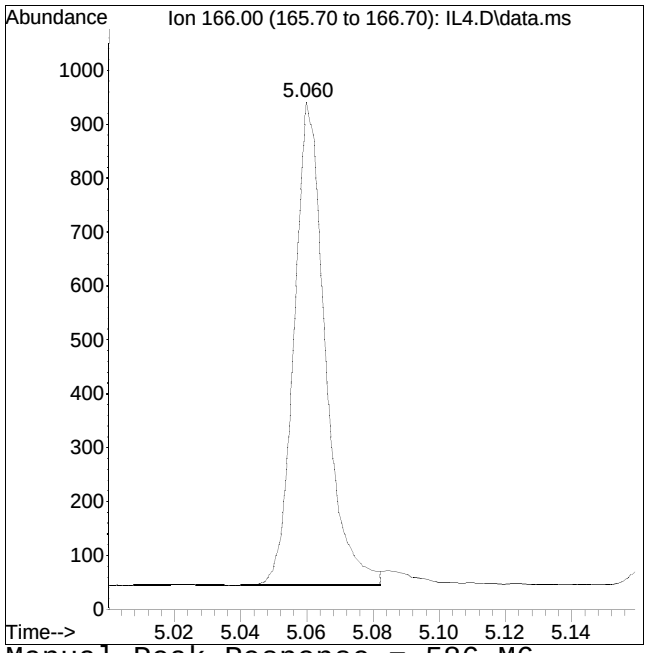
Data Path : I:\8270SIM\sv119\200916LVIQ
Data File : IL4.D
Date Inj'd : 9/16/2020 4:33 pm
Sample : IL4,32,,0.05

Method : SIM-LVI_200916_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 9/16/2020 7:02 pm

Compound #19: Fluorene



Original Peak Response = 613



Manual Peak Response = 586 M6

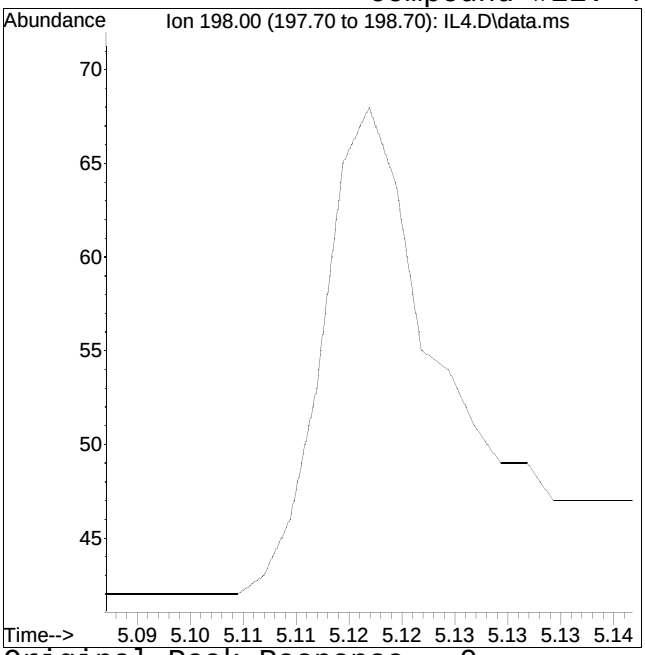
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

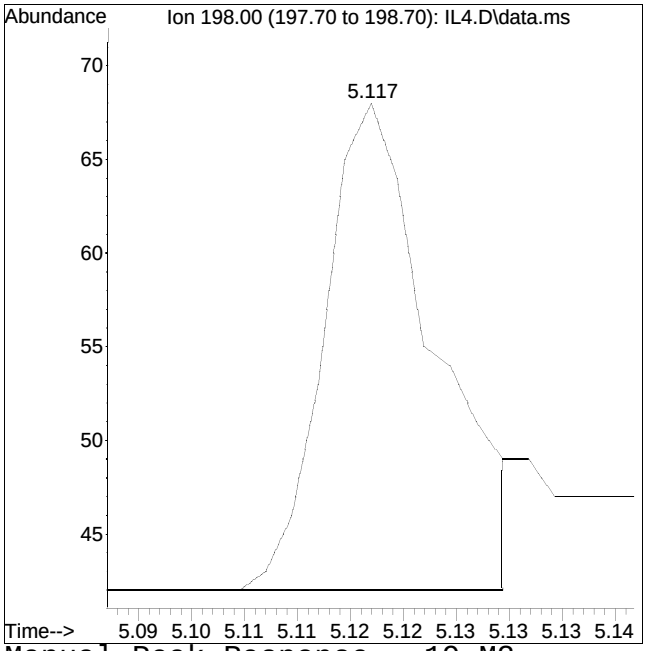
Data Path : I:\8270SIM\sv119\200916LVIQ
Data File : IL4.D
Date Inj'd : 9/16/2020 4:33 pm
Sample : IL4,32,,0.05

Method : SIM-LVI_200916_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 9/16/2020 7:02 pm

Compound #22: 4,6-Dinitro-o-cresol



Original Peak Response = 0



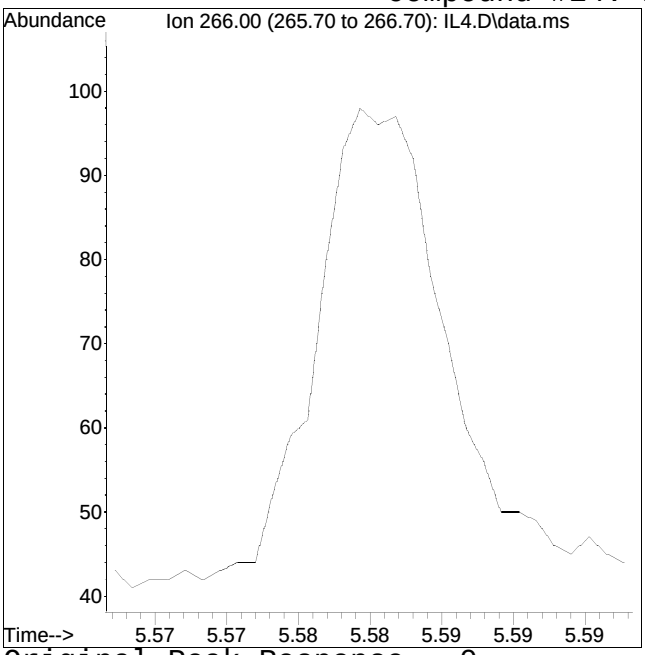
Manual Peak Response = 19 M2

M2 = Peak not found by automatic integration algorithm.

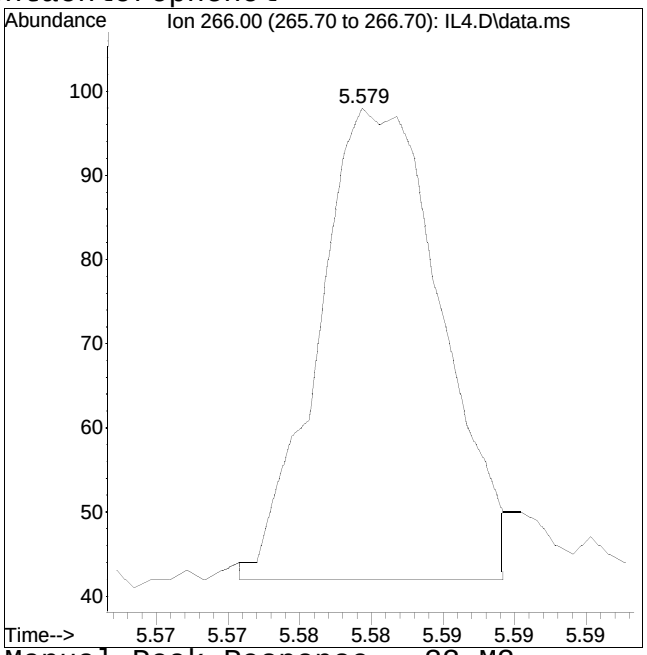
Manual Integration Report

Data Path : I:\8270SIM\sv119\200916LVIQMethod : SIM-LVI_200916_sv119.M
Data File : IL4.D Operator : sv119:dv
Date Inj'd : 9/16/2020 4:33 pm Instrument : SV119
Sample : IL4,32,,0.05 Quant Date : 9/16/2020 7:02 pm

Compound #24: Pentachlorophenol



Original Peak Response = 0



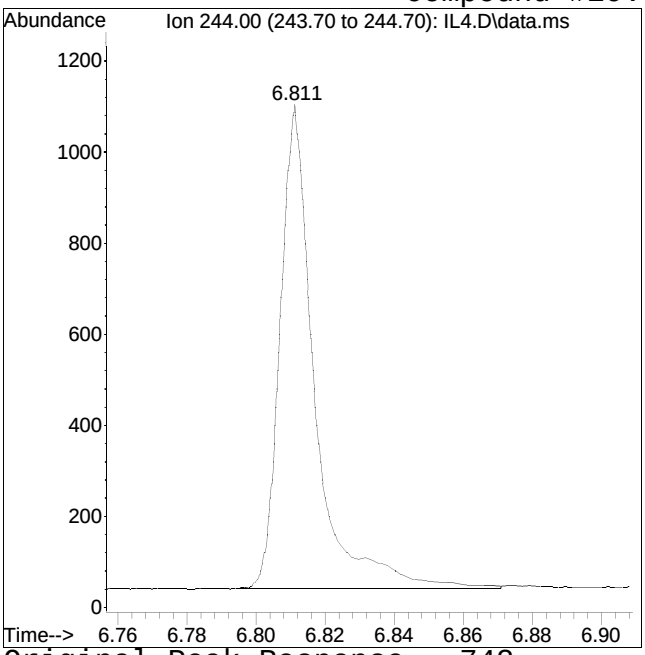
Manual Peak Response = 33 M2

M2 = Peak not found by automatic integration algorithm.

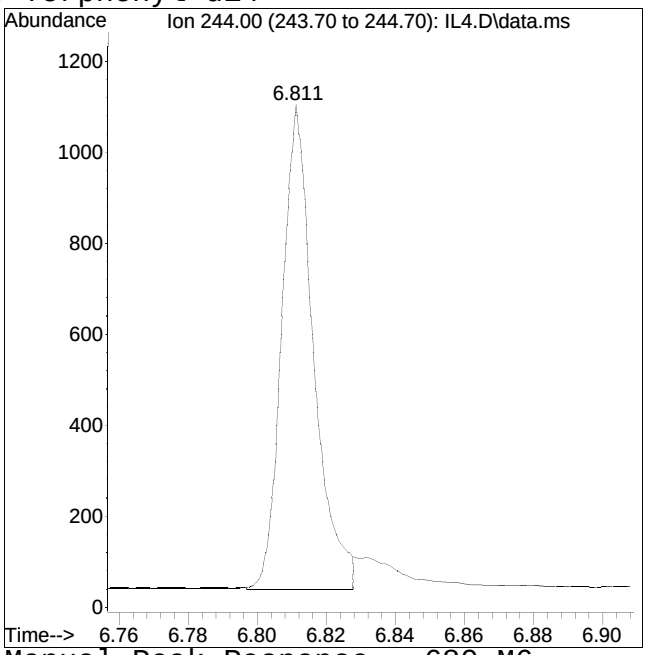
Manual Integration Report

Data Path : I:\8270SIM\sv119\200916LVIQMethod : SIM-LVI_200916_sv119.M
Data File : IL4.D Operator : sv119:dv
Date Inj'd : 9/16/2020 4:33 pm Instrument : SV119
Sample : IL4,32,,0.05 Quant Date : 9/16/2020 7:02 pm

Compound #29: 4-Terphenyl-d14



Original Peak Response = 742



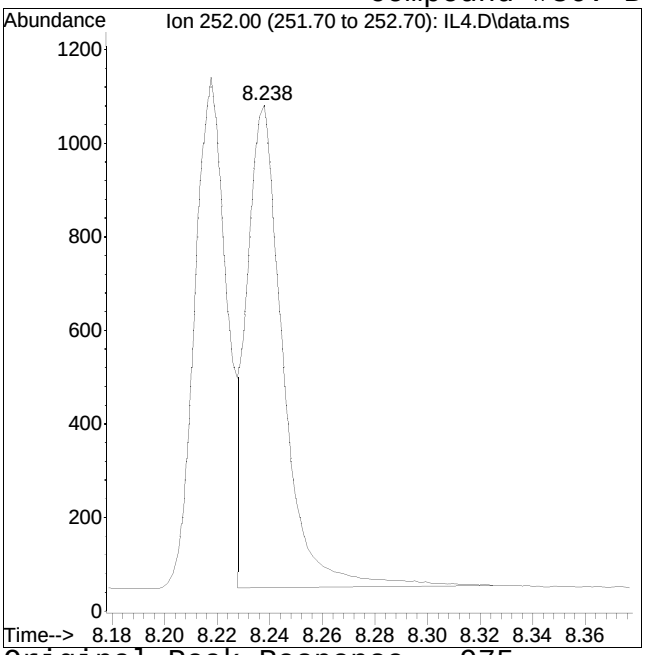
Manual Peak Response = 680 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

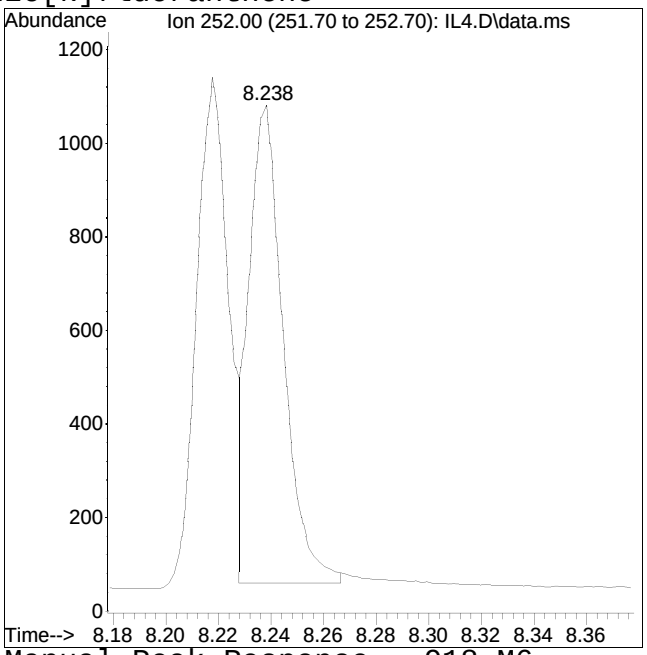
Manual Integration Report

Data Path : I:\8270SIM\sv119\200916LVIQMethod : SIM-LVI_200916_sv119.M
Data File : IL4.D Operator : sv119:dv
Date Inj'd : 9/16/2020 4:33 pm Instrument : SV119
Sample : IL4,32,,0.05 Quant Date : 9/16/2020 7:02 pm

Compound #36: Benzo[k]fluoranthene



Original Peak Response = 975



Manual Peak Response = 918 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : IL5.D
Acq On : 16 Sep 2020 04:55 pm
Operator : sv119:dv
Sample : IL5,32,,0.1
Misc : wg1410836,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 16 19:07:44 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:07:10 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\200916LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.686	152	16282	4000.000	ng/ml	0.00
Standard Area 1 = 18132			Recovery = 89.80%			
9) Naphthalene-d8	3.504	136	59699	4000.000	ng/ml #	0.00
Standard Area 1 = 66092			Recovery = 90.33%			
17) Acenaphthene-d10	4.686	164	33035	4000.000	ng/ml	0.00
Standard Area 1 = 36178			Recovery = 91.31%			
21) Phenanthrene-d10	5.693	188	70214	4000.000	ng/ml #	0.00
Standard Area 1 = 76284			Recovery = 92.04%			
30) Chrysene-d12	7.502	240	64930	4000.000	ng/ml #	0.00
Standard Area 1 = 69774			Recovery = 93.06%			
34) Perylene-d12	8.509	264	59796	4000.000	ng/ml	0.00
Standard Area 1 = 64380			Recovery = 92.88%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.922	112	403	99.823	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 1996.46%#			
4) Phenol-d6	2.491	99	476	100.277	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 2005.54%#			
8) Nitrobenzene-d5	3.046	82	410	97.496	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 3899.84%#			
14) 2-Fluorobiphenyl	4.247	172	1298	103.634	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 4145.36%#			
20) 2,4,6-Tribromophenol	5.226	330	186M1	98.269	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 1965.38%#			
29) 4-Terphenyl-d14	6.808	244	1353M6	99.646	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 3985.84%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.034	88	176	99.123	ng/ml#	100
5) Bis(2-chloroethyl)ether	3.375	93	472	98.861	ng/ml	85
6) n-nitrosodi-n-propylamine	2.965	70	265	98.706	ng/ml	100
7) Hexachloroethane	3.002	117	207	102.601	ng/ml	85
10) Naphthalene	3.514	128	1584	103.206	ng/ml	100
11) Hexachlorobutadiene	3.618	225	325	103.791	ng/ml	99
12) 2-Methylnaphthalene	3.985	142	1021	102.150	ng/ml	99
13) 1-Methylnaphthalene	4.049	142	980	103.652	ng/ml	98
15) 2-Chloronaphthalene	4.308	162	1039	102.255	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : IL5.D
Acq On : 16 Sep 2020 04:55 pm
Operator : sv119:dv
Sample : IL5,32,,0.1
Misc : wg1410836,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 16 19:07:44 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:07:10 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\200916LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
16) Acenaphthylene	4.585	152	1678	101.601	ng/ml	98
18) Acenaphthene	4.705	153	1204	104.711	ng/ml	96
19) Fluorene	5.060	166	1234	105.285	ng/ml	99
22) 4,6-Dinitro-o-cresol	5.114	198	56M6	124.789	ng/ml	
23) Hexachlorobenzene	5.436	284	462	102.243	ng/ml	89
24) Pentachlorophenol	5.578	266	90M1	81.895	ng/ml	
25) Phenanthrene	5.708	178	2021M6	104.579	ng/ml	
26) Anthracene	5.743	178	1860	101.187	ng/ml	100
27) Fluoranthene	6.520	202	2152	104.053	ng/ml	95
28) Pyrene	6.668	202	2221	103.738	ng/ml	97
31) Benzo[a]anthracene	7.495	228	2190	100.441	ng/ml#	82
32) Chrysene	7.517	228	2269	107.170	ug/ml	96
33) Bis(2-ethylhexyl)phtha...	7.587	149	1093	95.256	ng/ml	99
35) Benzo[b]fluoranthene	8.217	252	1840	98.702	ng/ml	98
36) Benzo[k]fluoranthene	8.235	252	1988	105.837	ng/ml	96
37) Benzo[a]pyrene	8.460	252	1584	99.094	ng/ml	99
38) Indeno[1,2,3-cd]pyrene	9.485	276	1465	97.367	ng/ml#	68
39) Dibenzo[a,h]anthracene	9.520	278	1432	95.672	ng/ml#	67
40) Benzo[g,h,i]perylene	9.755	276	1713	101.422	ng/ml#	66

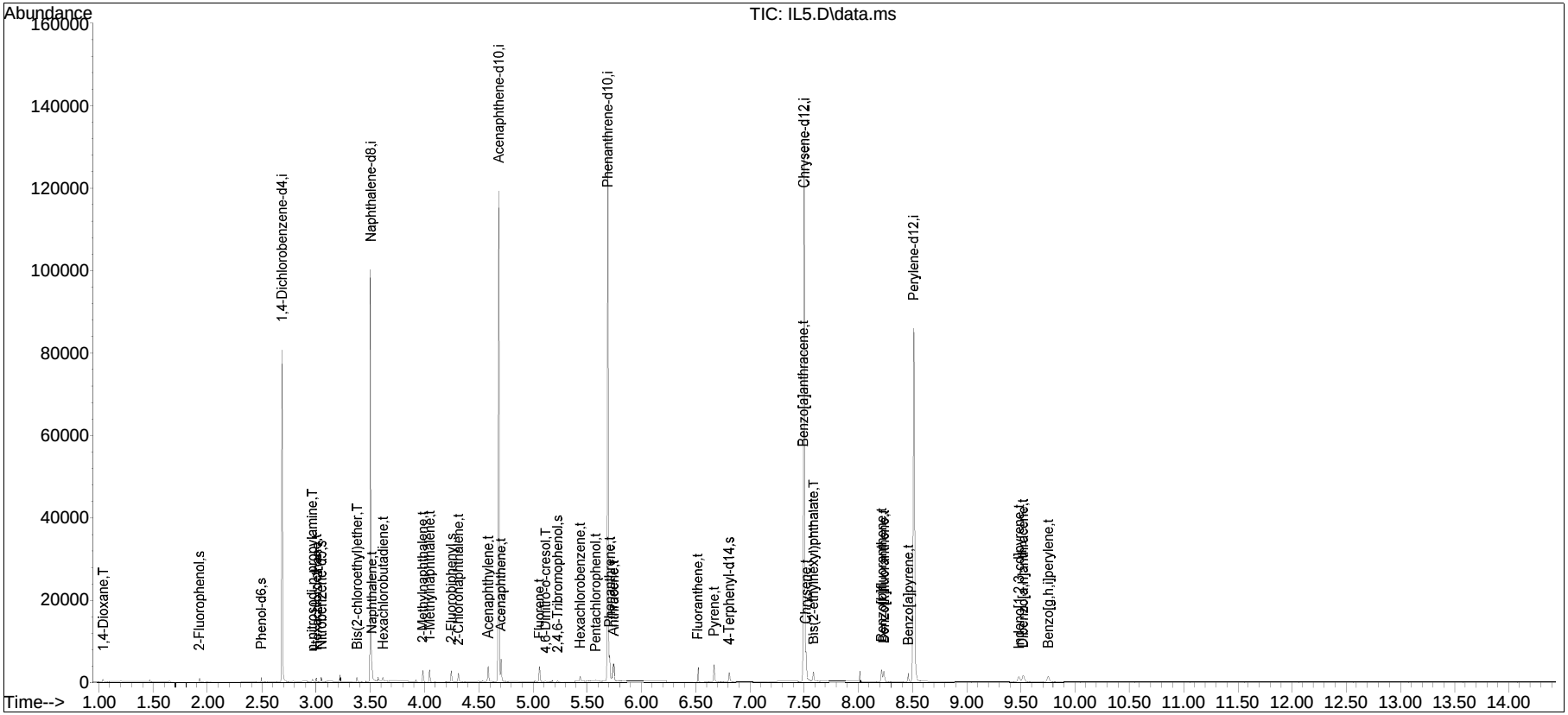
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : IL5.D
Acq On : 16 Sep 2020 04:55 pm
Operator : sv119:dv
Sample : IL5,32,,0.1
Misc : wg1410836,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 16 19:07:44 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:07:10 2020
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL7.D•

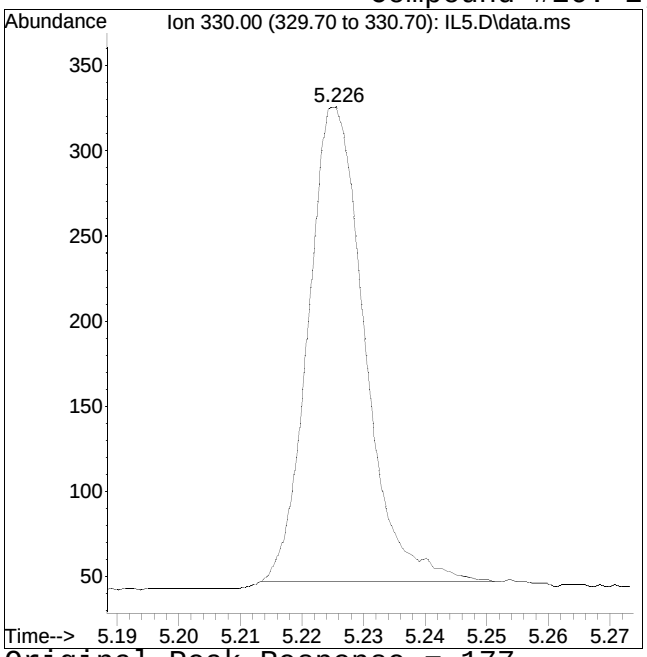


Manual Integration Report

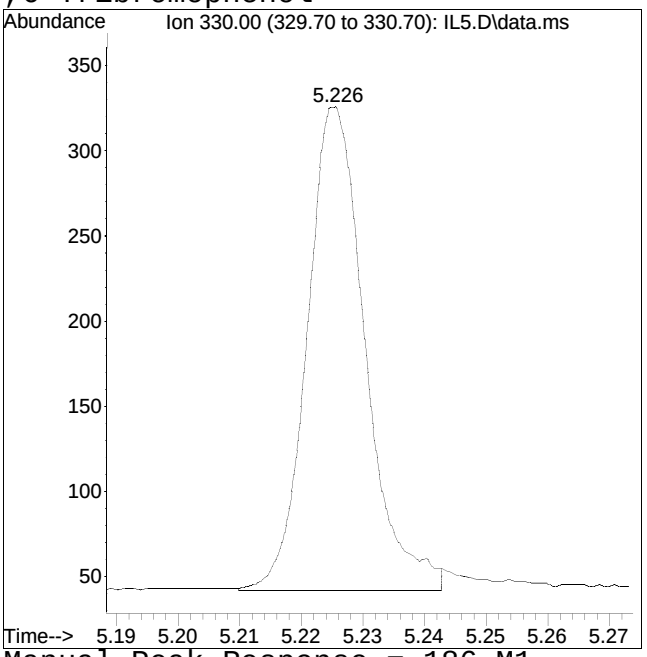
Data Path : I:\8270SIM\sv119\200916LVIQ
Data File : IL5.D
Date Inj'd : 9/16/2020 4:55 pm
Sample : IL5,32,,0.1

Method : SIM-LVI_200916_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 9/16/2020 7:07 pm

Compound #20: 2,4,6-Tribromophenol



Original Peak Response = 177



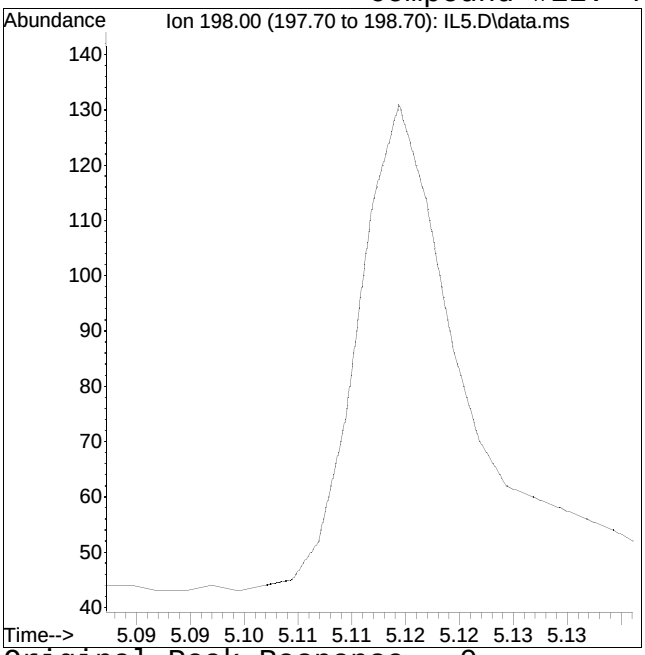
Manual Peak Response = 186 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

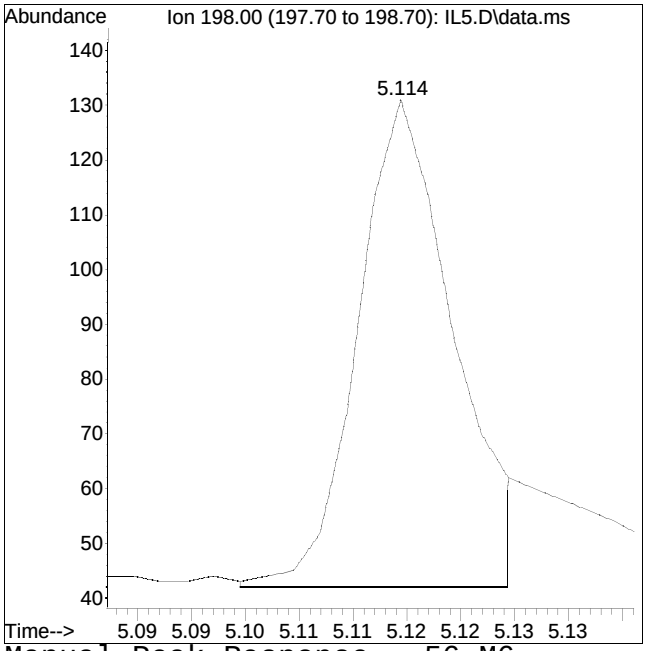
Manual Integration Report

Data Path : I:\8270SIM\sv119\200916LVIQMethod : SIM-LVI_200916_sv119.M
Data File : IL5.D Operator : sv119:dv
Date Inj'd : 9/16/2020 4:55 pm Instrument : SV119
Sample : IL5,32,,0.1 Quant Date : 9/16/2020 7:07 pm

Compound #22: 4,6-Dinitro-o-cresol



Original Peak Response = 0



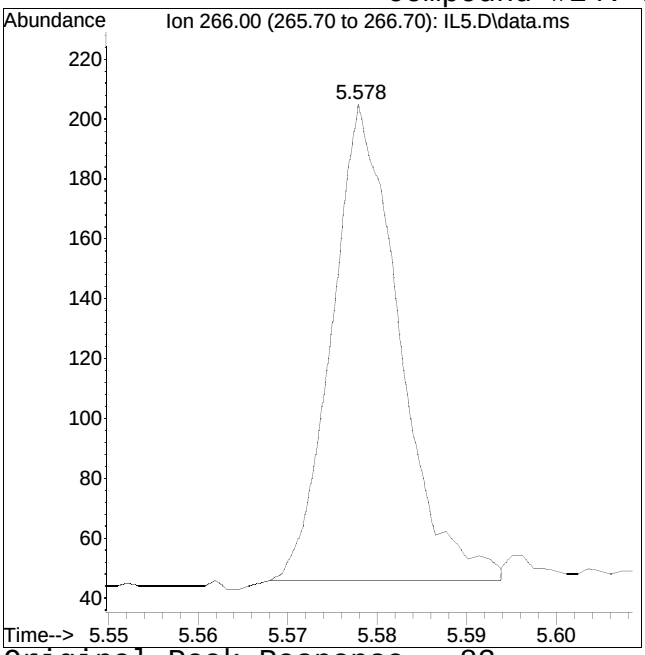
Manual Peak Response = 56 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

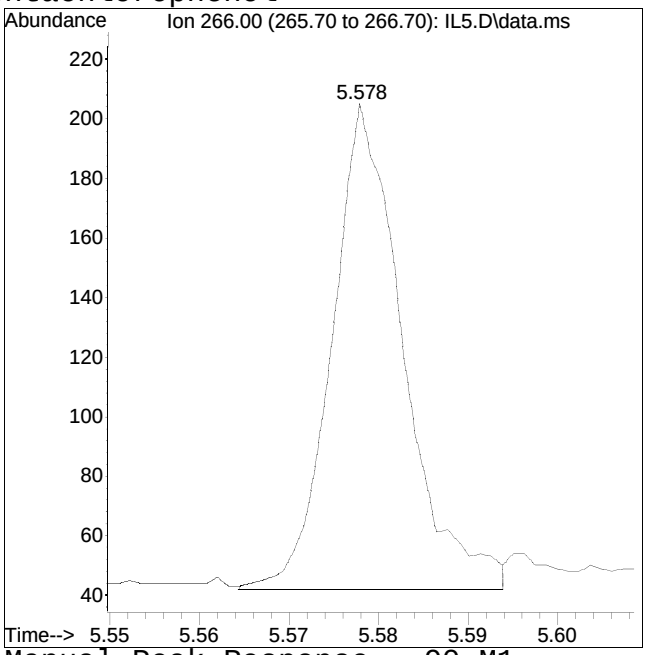
Manual Integration Report

Data Path : I:\8270SIM\sv119\200916LVIQMethod : SIM-LVI_200916_sv119.M
Data File : IL5.D Operator : sv119:dv
Date Inj'd : 9/16/2020 4:55 pm Instrument : SV119
Sample : IL5,32,,0.1 Quant Date : 9/16/2020 7:07 pm

Compound #24: Pentachlorophenol



Original Peak Response = 83



Manual Peak Response = 90 M1

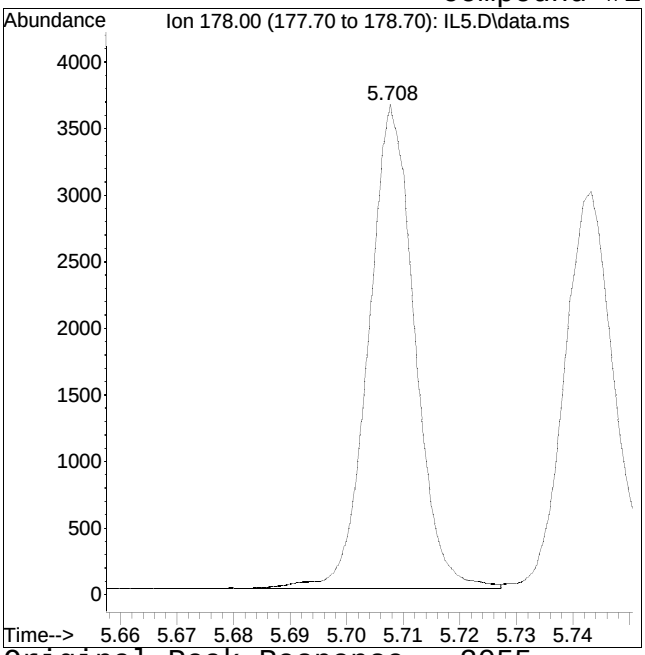
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

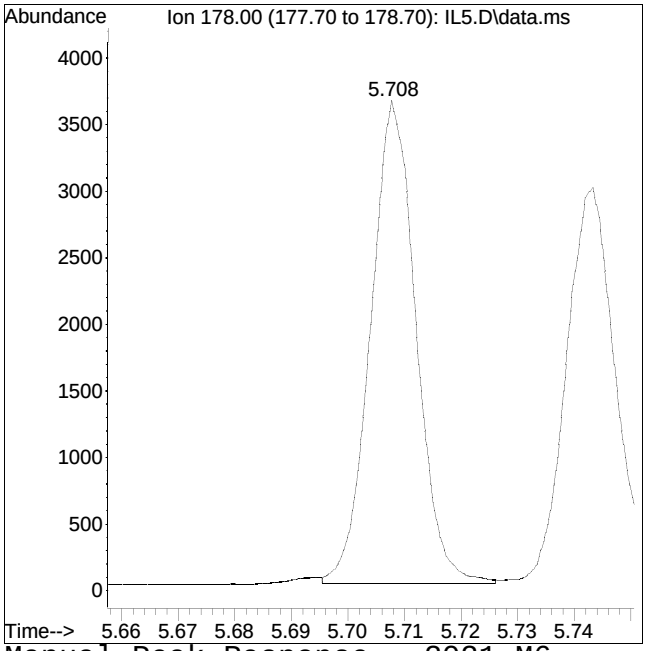
Data Path : I:\8270SIM\sv119\200916LVIQ
Data File : IL5.D
Date Inj'd : 9/16/2020 4:55 pm
Sample : IL5,32,,0.1

Method : SIM-LVI_200916_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 9/16/2020 7:07 pm

Compound #25: Phenanthrene



Original Peak Response = 2055



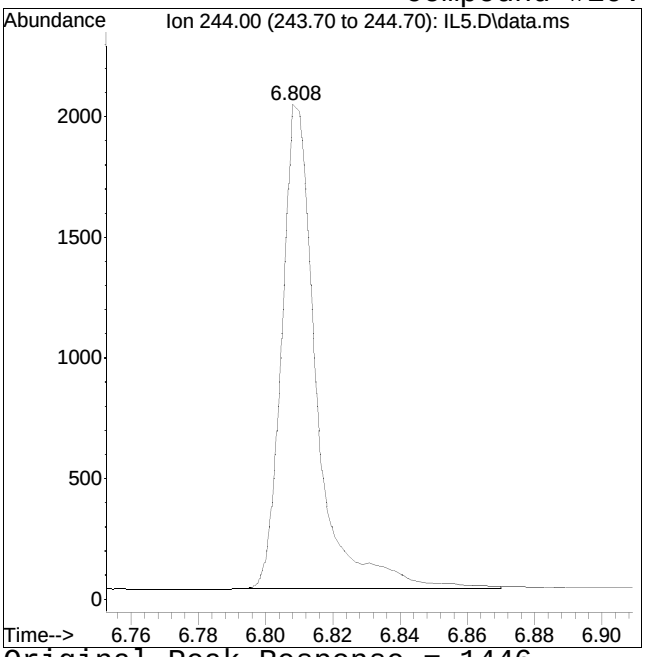
Manual Peak Response = 2021 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

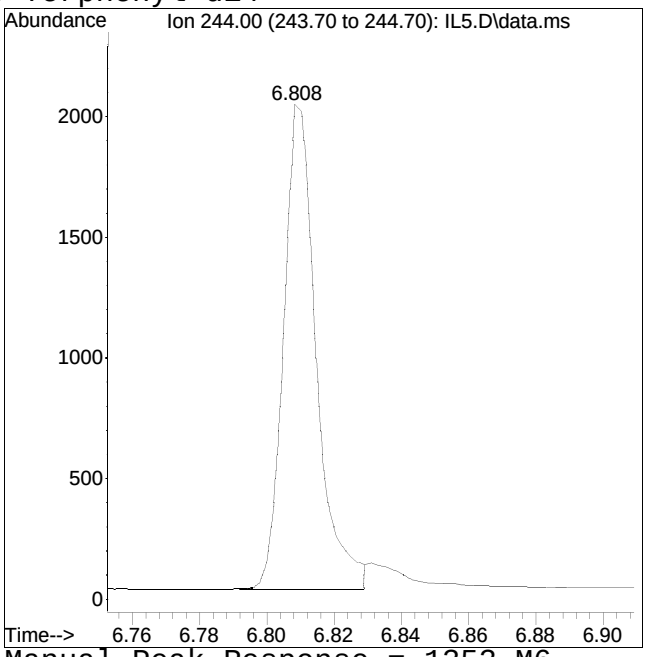
Manual Integration Report

Data Path : I:\8270SIM\sv119\200916LVIQMethod : SIM-LVI_200916_sv119.M
Data File : IL5.D Operator : sv119:dv
Date Inj'd : 9/16/2020 4:55 pm Instrument : SV119
Sample : IL5,32,,0.1 Quant Date : 9/16/2020 7:07 pm

Compound #29: 4-Terphenyl-d14



Original Peak Response = 1446



Manual Peak Response = 1353 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : IL6.D
Acq On : 16 Sep 2020 05:17 pm
Operator : sv119:dv
Sample : IL6,32,,0.25
Misc : wg1410836,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 16 19:09:43 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:01:18 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\200916LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.684	152	16881	4000.000	ng/ml	0.00
Standard Area 1 = 18132			Recovery = 93.10%			
9) Naphthalene-d8	3.501	136	61266	4000.000	ng/ml	# 0.00
Standard Area 1 = 66092			Recovery = 92.70%			
17) Acenaphthene-d10	4.685	164	33585	4000.000	ng/ml	0.00
Standard Area 1 = 36178			Recovery = 92.83%			
21) Phenanthrene-d10	5.692	188	70387	4000.000	ng/ml	# 0.00
Standard Area 1 = 76284			Recovery = 92.27%			
30) Chrysene-d12	7.501	240	62468	4000.000	ng/ml	# 0.00
Standard Area 1 = 69774			Recovery = 89.53%			
34) Perylene-d12	8.508	264	57404	4000.000	ng/ml	0.00
Standard Area 1 = 64380			Recovery = 89.16%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.919	112	1053	251.572	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 5031.44%#			
4) Phenol-d6	2.489	99	1253	254.597	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 5091.94%#			
8) Nitrobenzene-d5	3.044	82	1109	254.358	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 10174.32%#			
14) 2-Fluorobiphenyl	4.245	172	3353	260.862	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 10434.48%#			
20) 2,4,6-Tribromophenol	5.223	330	470	244.248	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 4884.96%#			
29) 4-Terphenyl-d14	6.808	244	3575	262.645	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 10505.80%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.029	88	448	243.359	ng/ml#	100
5) Bis(2-chloroethyl)ether	3.374	93	1313	265.252	ng/ml	85
6) n-nitrosodi-n-propylamine	2.963	70	706	253.636	ng/ml	100
7) Hexachloroethane	3.000	117	535	255.768	ng/ml	86
10) Naphthalene	3.514	128	4045	256.812	ng/ml	100
11) Hexachlorobutadiene	3.615	225	831	258.597	ng/ml	100
12) 2-Methylnaphthalene	3.984	142	2675	260.786	ng/ml	99
13) 1-Methylnaphthalene	4.048	142	2538	261.571	ng/ml	98
15) 2-Chloronaphthalene	4.308	162	2736	262.380	ng/ml	100
16) Acenaphthylene	4.586	152	4293	253.288	ng/ml	99
18) Acenaphthene	4.705	153	3033	259.459	ng/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : IL6.D
Acq On : 16 Sep 2020 05:17 pm
Operator : sv119:dv
Sample : IL6,32,,0.25
Misc : wg1410836,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 16 19:09:43 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:01:18 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\200916LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) Fluorene	5.058	166	3090	259.322	ng/ml	99
22) 4,6-Dinitro-o-cresol	5.112	198	194M6	169.225	ng/ml	
23) Hexachlorobenzene	5.435	284	1149	253.655	ng/ml	89
24) Pentachlorophenol	5.578	266	253M6	149.391	ng/ml	
25) Phenanthrene	5.707	178	4990	257.578	ng/ml	98
26) Anthracene	5.741	178	4654	252.563	ng/ml	99
27) Fluoranthene	6.518	202	5299	255.586	ng/ml	96
28) Pyrene	6.668	202	5427	252.860	ng/ml	98
31) Benzo[a]anthracene	7.492	228	4973	249.510	ng/ml#	81
32) Chrysene	7.516	228	5203	255.434	ug/ml	99
33) Bis(2-ethylhexyl)phtha...	7.586	149	2527	228.911	ng/ml	100
35) Benzo[b]fluoranthene	8.214	252	4458	249.103	ng/ml	99
36) Benzo[k]fluoranthene	8.235	252	4686	259.869	ng/ml	100
37) Benzo[a]pyrene	8.457	252	3748	244.243	ng/ml	100
38) Indeno[1,2,3-cd]pyrene	9.478	276	3583	248.058	ng/ml#	69
39) Dibenzo[a,h]anthracene	9.517	278	3568M6	248.312	ng/ml	
40) Benzo[g,h,i]perylene	9.752	276	4105	253.174	ng/ml#	67

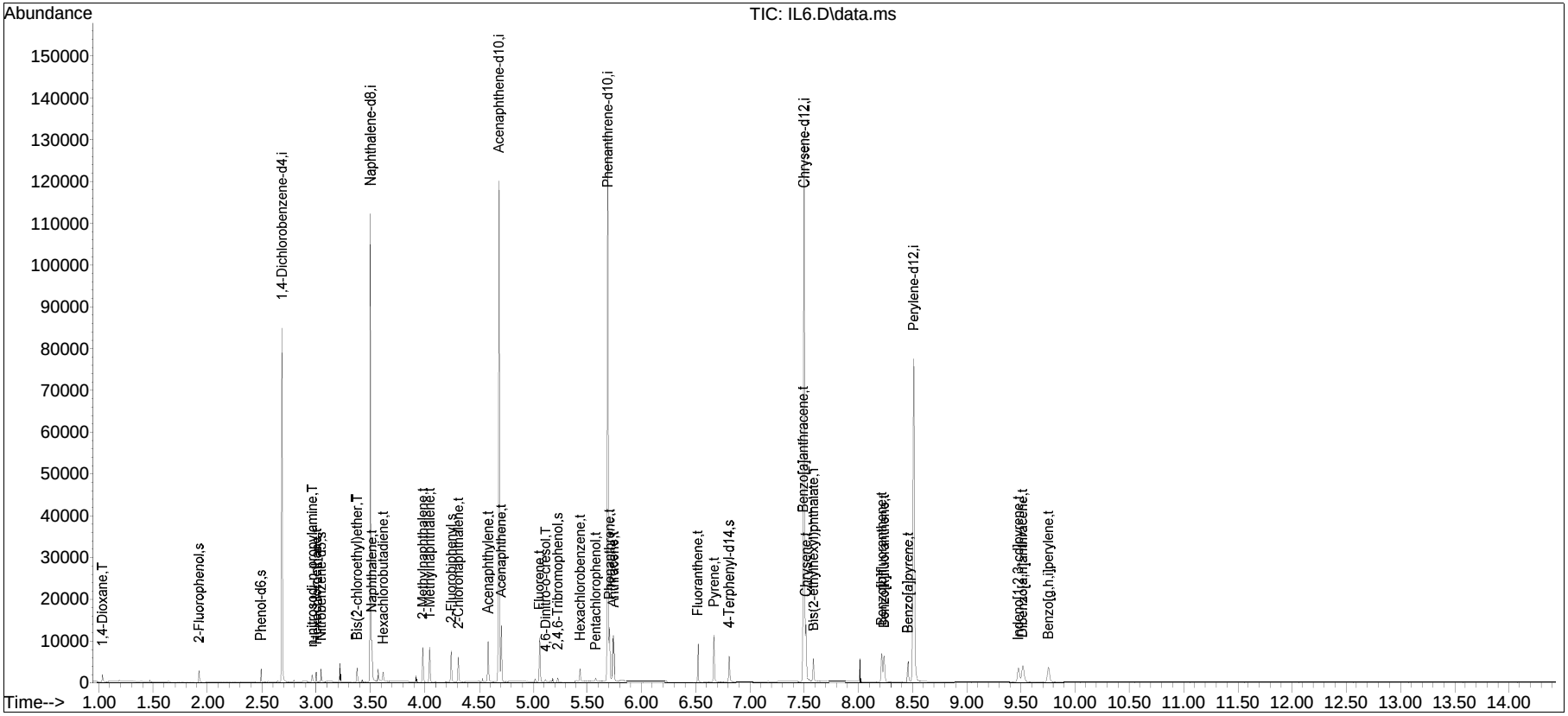
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : IL6.D
Acq On : 16 Sep 2020 05:17 pm
Operator : sv119:dv
Sample : IL6,32,,0.25
Misc : wg1410836,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 16 19:09:43 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:01:18 2020
Response via : Initial Calibration

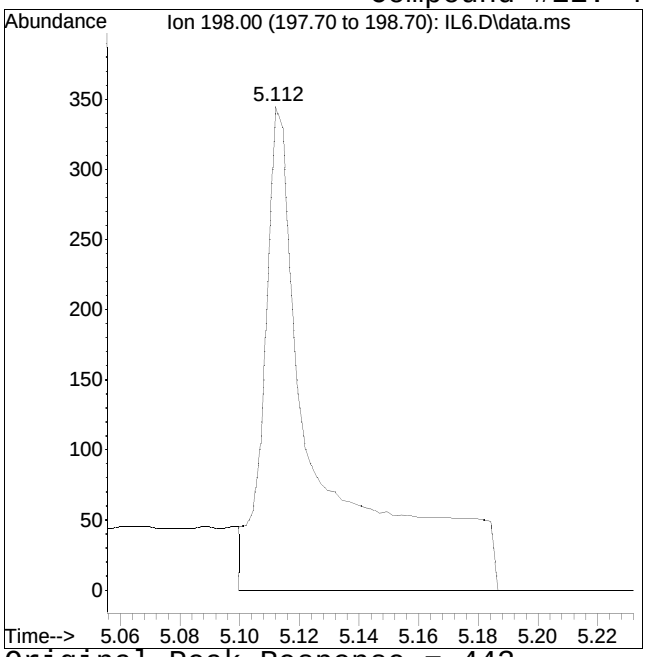
Sub List : Default - All compounds listedical\IL7.D•



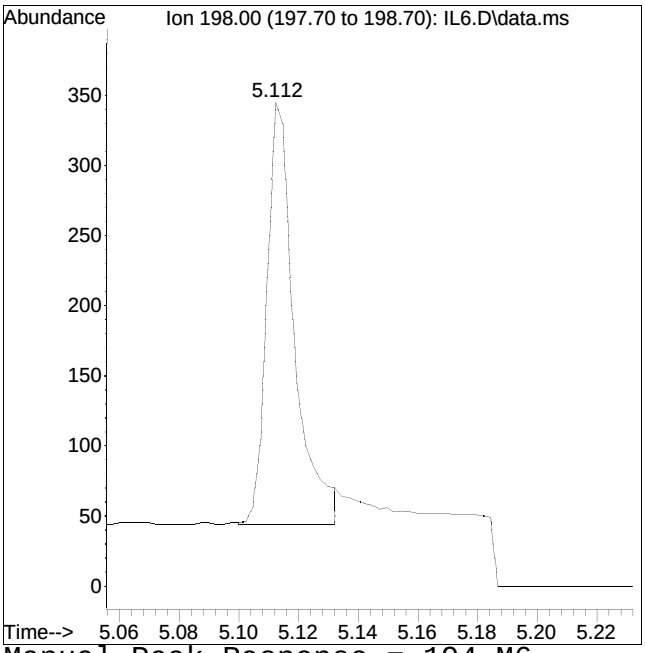
Manual Integration Report

Data Path : I:\8270SIM\sv119\200916LVIQMethod : SIM-LVI_200916_sv119.M
Data File : IL6.D Operator : sv119:dv
Date Inj'd : 9/16/2020 5:17 pm Instrument : SV119
Sample : IL6,32,,0.25 Quant Date : 9/16/2020 7:02 pm

Compound #22: 4,6-Dinitro-o-cresol



Original Peak Response = 443



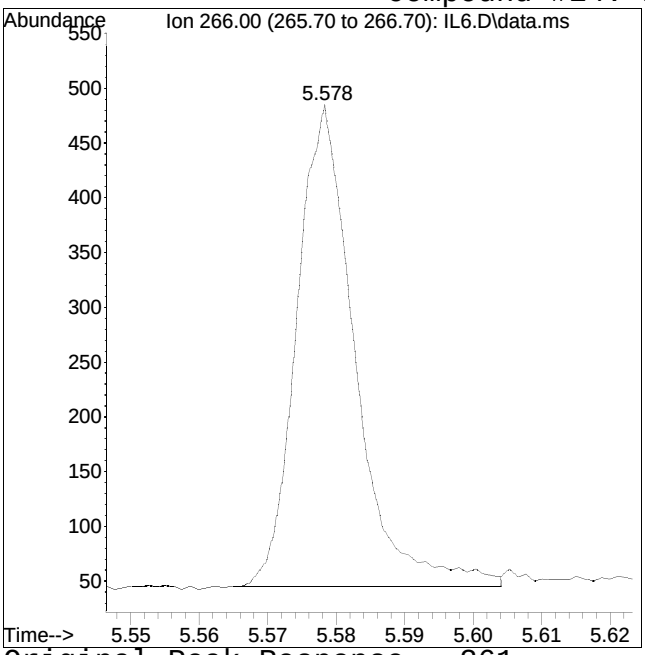
Manual Peak Response = 194 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

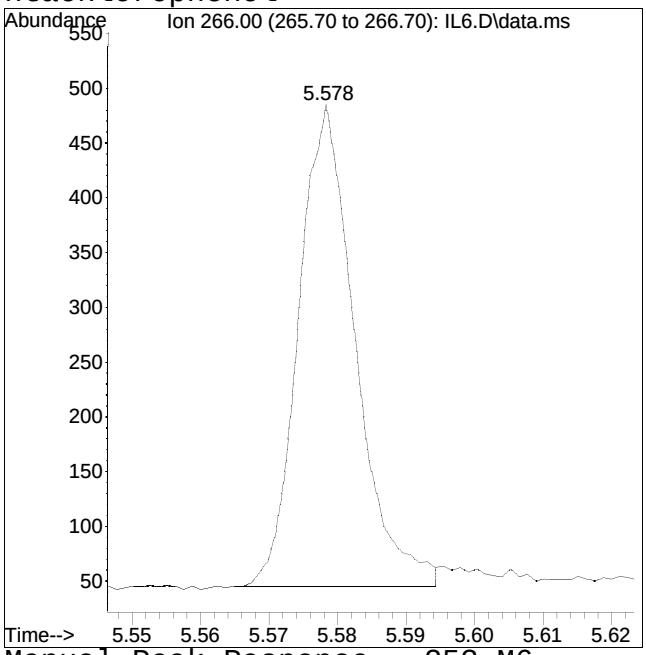
Manual Integration Report

Data Path : I:\8270SIM\sv119\200916LVIQMethod : SIM-LVI_200916_sv119.M
Data File : IL6.D Operator : sv119:dv
Date Inj'd : 9/16/2020 5:17 pm Instrument : SV119
Sample : IL6,32,,0.25 Quant Date : 9/16/2020 7:02 pm

Compound #24: Pentachlorophenol



Original Peak Response = 261



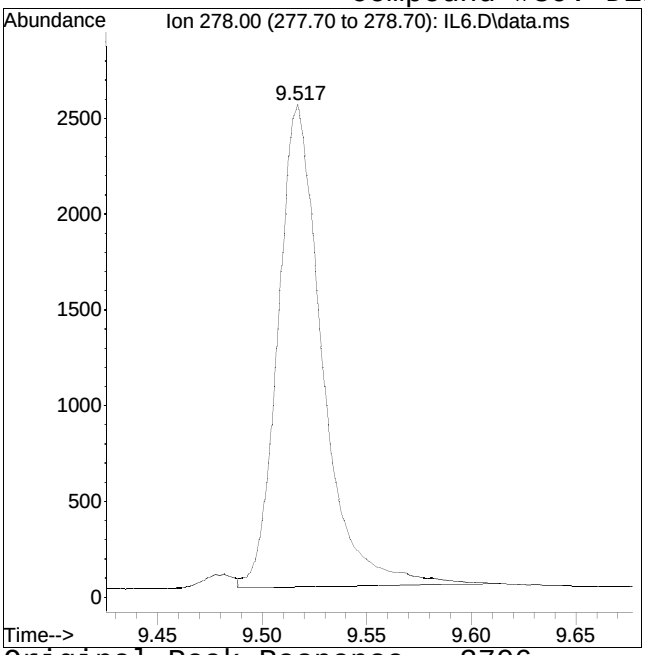
Manual Peak Response = 253 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

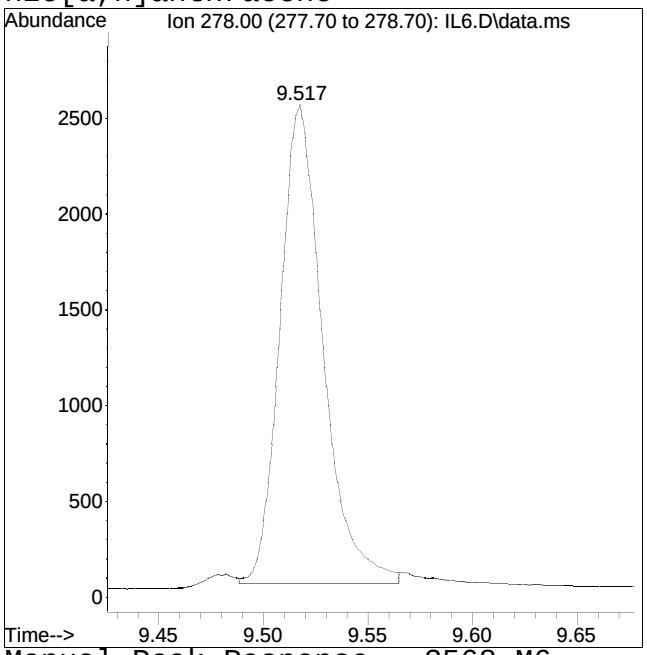
Manual Integration Report

Data Path : I:\8270SIM\sv119\200916LVIQMethod : SIM-LVI_200916_sv119.M
Data File : IL6.D Operator : sv119:dv
Date Inj'd : 9/16/2020 5:17 pm Instrument : SV119
Sample : IL6,32,,0.25 Quant Date : 9/16/2020 7:02 pm

Compound #39: Dibenzo[a,h]anthracene



Original Peak Response = 3706



Manual Peak Response = 3568 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : IL7.D
Acq On : 16 Sep 2020 05:38 pm
Operator : sv119:dv
Sample : IL7,32,,1.0
Misc : wg1410836,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 16 19:10:11 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:01:18 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\200916LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.684	152	18132	4000.000	ng/ml	0.00
Standard Area 1 = 18132			Recovery = 100.00%			
9) Naphthalene-d8	3.500	136	66063	4000.000	ng/ml	# 0.00
Standard Area 1 = 66092			Recovery = 99.96%			
17) Acenaphthene-d10	4.684	164	36178	4000.000	ng/ml	0.00
Standard Area 1 = 36178			Recovery = 100.00%			
21) Phenanthrene-d10	5.692	188	76284	4000.000	ng/ml	# 0.00
Standard Area 1 = 76284			Recovery = 100.00%			
30) Chrysene-d12	7.498	240	69774	4000.000	ng/ml	# 0.00
Standard Area 1 = 69774			Recovery = 100.00%			
34) Perylene-d12	8.504	264	64347	4000.000	ng/ml	0.00
Standard Area 1 = 64380			Recovery = 99.95%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.919	112	4599	1022.938	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 20458.76%#			
4) Phenol-d6	2.487	99	5448	1030.605	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 20612.10%#			
8) Nitrobenzene-d5	3.042	82	4727	1009.375	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 40375.00%#			
14) 2-Fluorobiphenyl	4.245	172	13839	998.488	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 39939.52%#			
20) 2,4,6-Tribromophenol	5.223	330	2183	1053.145	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 21062.90%#			
29) 4-Terphenyl-d14	6.807	244	15282	1035.936	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 41437.44%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.026	88	1880	950.779	ng/ml#	100
5) Bis(2-chloroethyl)ether	3.373	93	5668	1066.046	ng/ml	88
6) n-nitrosodi-n-propylamine	2.959	70	3008	1006.088	ng/ml	99
7) Hexachloroethane	3.000	117	2220	988.094	ng/ml	86
10) Naphthalene	3.514	128	16828	990.811	ng/ml	99
11) Hexachlorobutadiene	3.615	225	3426	988.714	ng/ml	100
12) 2-Methylnaphthalene	3.984	142	11443	1034.573	ng/ml	100
13) 1-Methylnaphthalene	4.048	142	10667	1019.533	ng/ml	99
15) 2-Chloronaphthalene	4.306	162	11480	1020.983	ng/ml	100
16) Acenaphthylene	4.584	152	18354	1004.258	ng/ml	99
18) Acenaphthene	4.705	153	12599	1000.536	ng/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : IL7.D
Acq On : 16 Sep 2020 05:38 pm
Operator : sv119:dv
Sample : IL7,32,,1.0
Misc : wg1410836,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 16 19:10:11 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:01:18 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\200916LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) Fluorene	5.057	166	13214	1029.474	ng/ml	100
22) 4,6-Dinitro-o-cresol	5.112	198	1402M6	721.462	ng/ml	
23) Hexachlorobenzene	5.434	284	4804	978.556	ng/ml	89
24) Pentachlorophenol	5.577	266	1533M6	646.628	ng/ml	
25) Phenanthrene	5.707	178	20894	995.152	ng/ml	100
26) Anthracene	5.741	178	20550	1028.996	ng/ml	100
27) Fluoranthene	6.518	202	22597	1005.664	ng/ml	96
28) Pyrene	6.667	202	23117	993.827	ng/ml	98
31) Benzo[a]anthracene	7.492	228	21124	974.512	ng/ml#	81
32) Chrysene	7.514	228	22656	995.800	ug/ml	97
33) Bis(2-ethylhexyl)phtha...	7.584	149	11293	915.870	ng/ml	100
35) Benzo[b]fluoranthene	8.212	252	20293	1011.578	ng/ml	100
36) Benzo[k]fluoranthene	8.232	252	20484	1013.401	ng/ml	100
37) Benzo[a]pyrene	8.455	252	16887	981.723	ng/ml	100
38) Indeno[1,2,3-cd]pyrene	9.480	276	16385	1011.966	ng/ml#	68
39) Dibenzo[a,h]anthracene	9.517	278	16905M6	1049.546	ng/ml	
40) Benzo[g,h,i]perylene	9.748	276	18124	997.183	ng/ml#	67

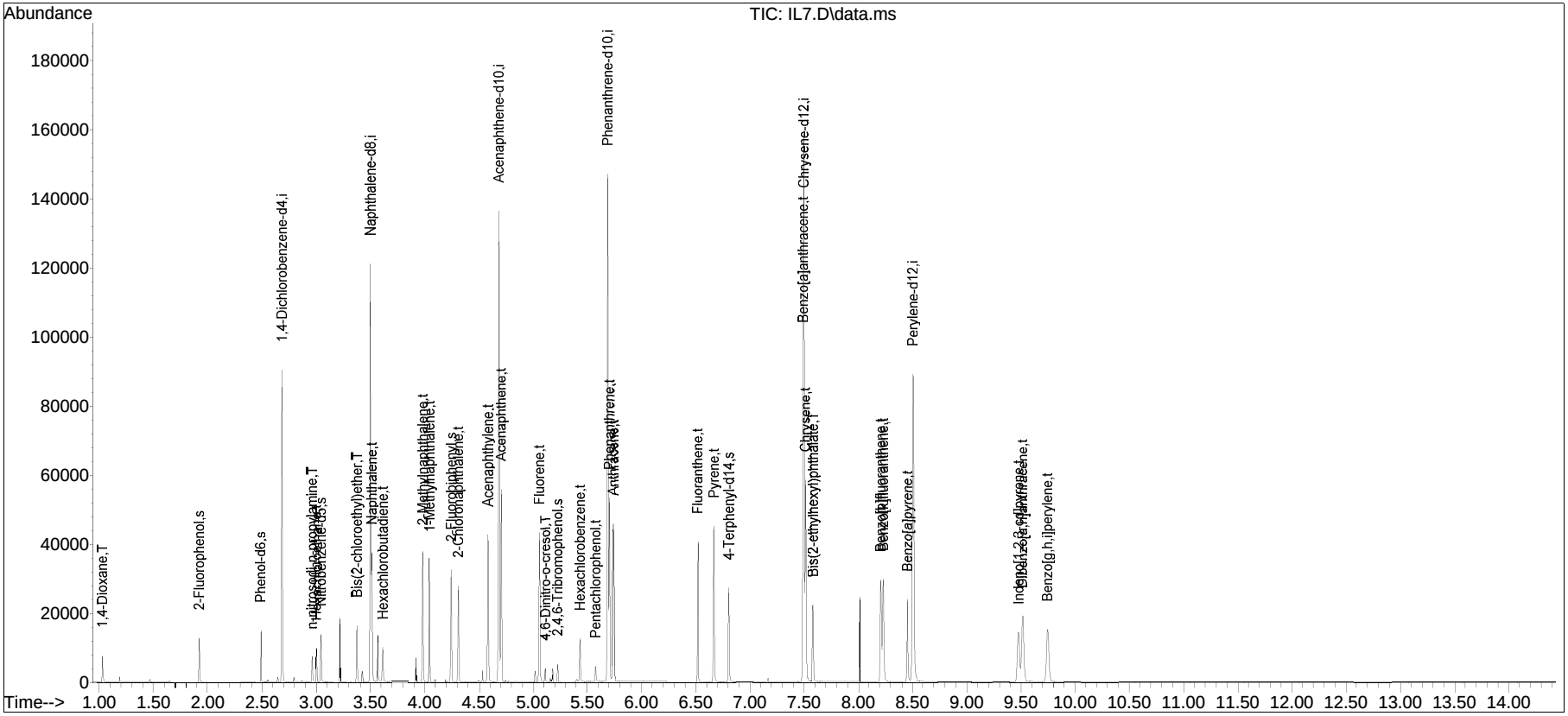
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : IL7.D
Acq On : 16 Sep 2020 05:38 pm
Operator : sv119:dv
Sample : IL7,32,,1.0
Misc : wg1410836,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 16 19:10:11 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:01:18 2020
Response via : Initial Calibration

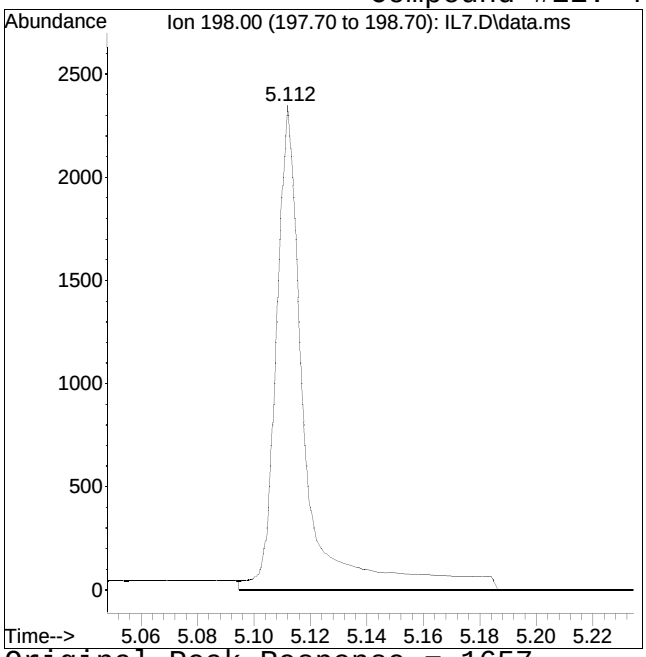
Sub List : Default - All compounds listedical\IL7.D•



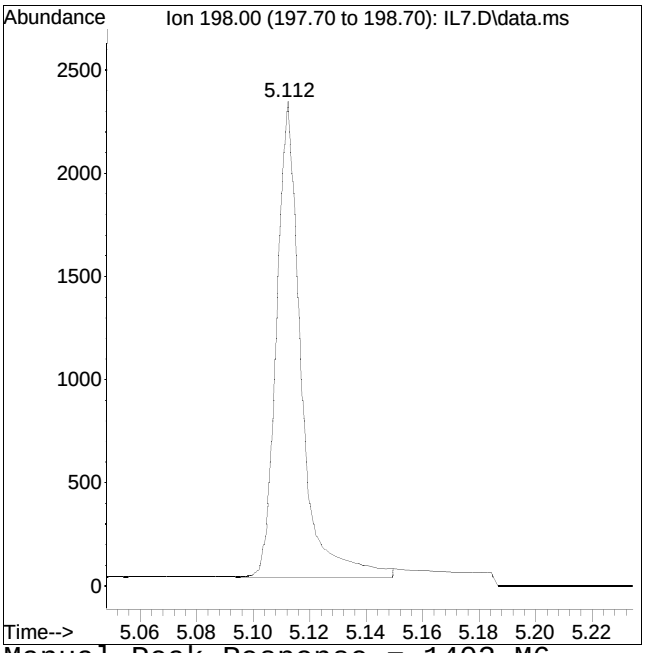
Manual Integration Report

Data Path : I:\8270SIM\sv119\200916LVIQMethod : SIM-LVI_200916_sv119.M
Data File : IL7.D Operator : sv119:dv
Date Inj'd : 9/16/2020 5:38 pm Instrument : SV119
Sample : IL7,32,,1.0 Quant Date : 9/16/2020 7:02 pm

Compound #22: 4,6-Dinitro-o-cresol



Original Peak Response = 1657



Manual Peak Response = 1402 M6

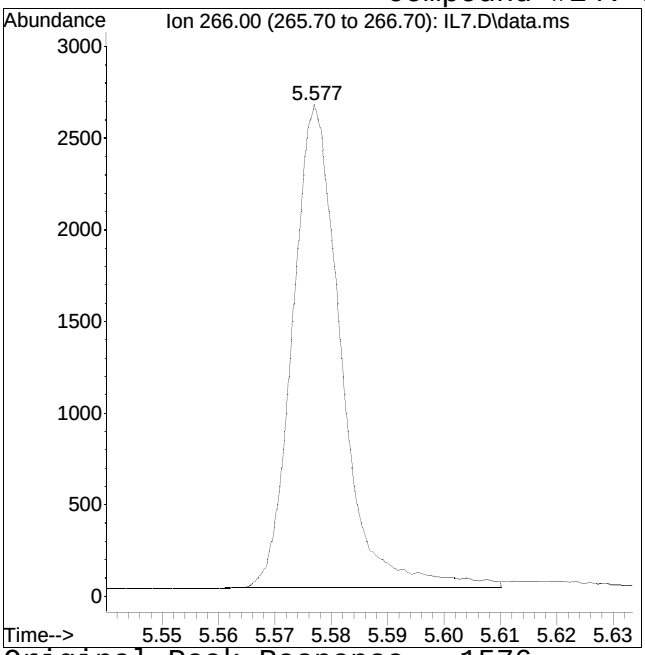
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

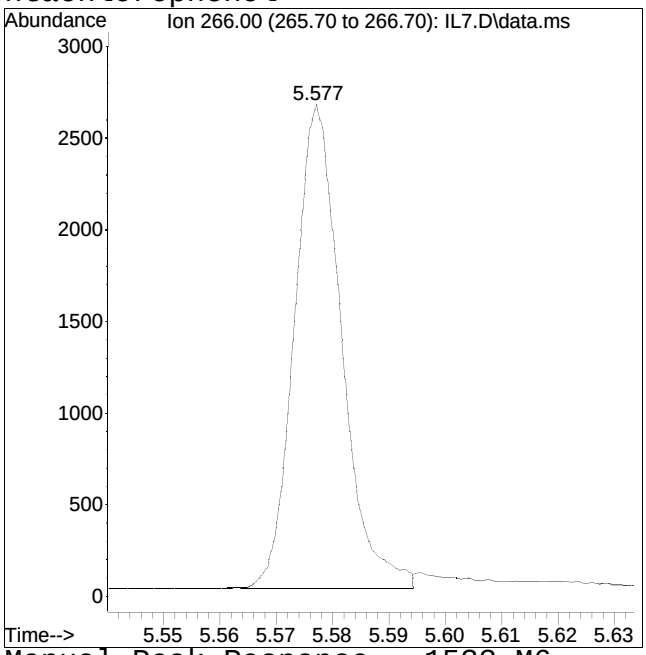
Data Path : I:\8270SIM\sv119\200916LVIQ
Data File : IL7.D
Date Inj'd : 9/16/2020 5:38 pm
Sample : IL7,32,,1.0

Method : SIM-LVI_200916_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 9/16/2020 7:02 pm

Compound #24: Pentachlorophenol



Original Peak Response = 1576



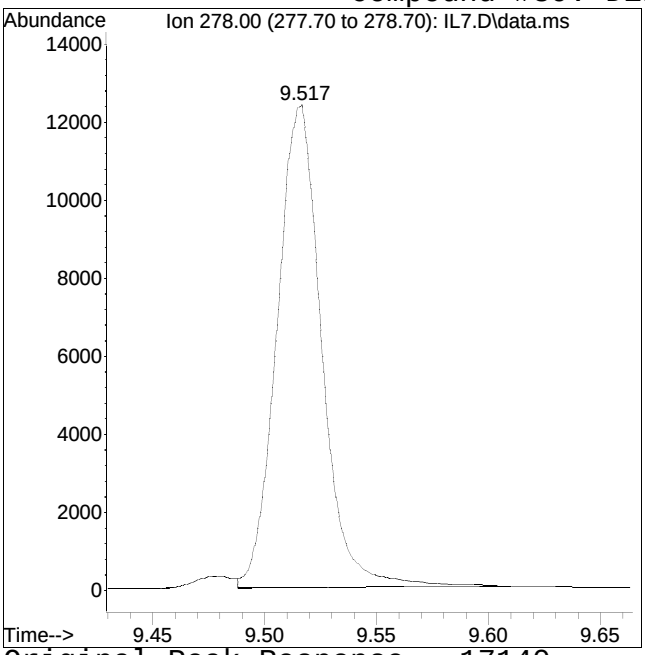
Manual Peak Response = 1533 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

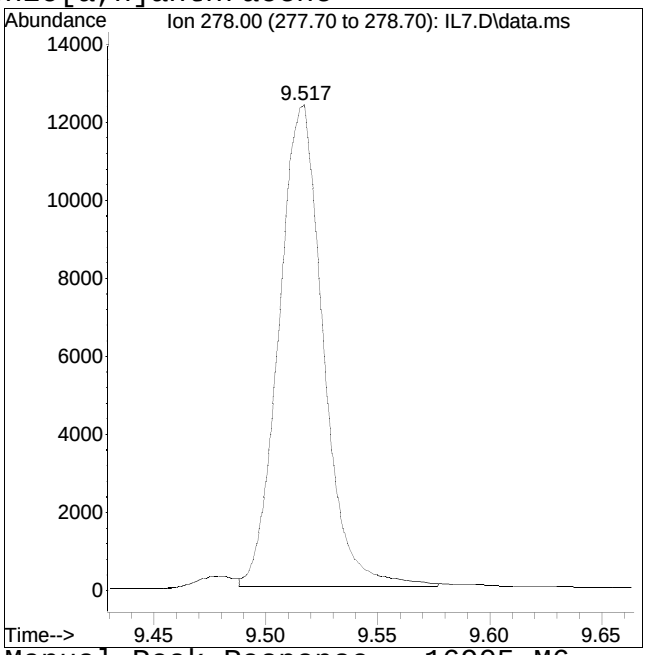
Manual Integration Report

Data Path : I:\8270SIM\sv119\200916LVIQMethod : SIM-LVI_200916_sv119.M
Data File : IL7.D Operator : sv119:dv
Date Inj'd : 9/16/2020 5:38 pm Instrument : SV119
Sample : IL7,32,,1.0 Quant Date : 9/16/2020 7:02 pm

Compound #39: Dibenzo[a,h]anthracene



Original Peak Response = 17140



Manual Peak Response = 16905 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : IL8.D
Acq On : 16 Sep 2020 05:59 pm
Operator : sv119:dv
Sample : IL8,32,,5.0
Misc : wg1410836,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 16 19:08:21 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:01:18 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\200916LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.684	152	18008	4000.000	ng/ml	0.00
Standard Area 1 = 18132			Recovery = 99.32%			
9) Naphthalene-d8	3.500	136	65015	4000.000	ng/ml	# 0.00
Standard Area 1 = 66092			Recovery = 98.37%			
17) Acenaphthene-d10	4.686	164	36055	4000.000	ng/ml	0.00
Standard Area 1 = 36178			Recovery = 99.66%			
21) Phenanthrene-d10	5.691	188	73071	4000.000	ng/ml	# 0.00
Standard Area 1 = 76284			Recovery = 95.79%			
30) Chrysene-d12	7.501	240	66189	4000.000	ng/ml	# 0.00
Standard Area 1 = 69774			Recovery = 94.86%			
34) Perylene-d12	8.505	264	61814	4000.000	ng/ml	0.00
Standard Area 1 = 64380			Recovery = 96.01%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.916	112	22670	5077.122	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 101542.44%#			
4) Phenol-d6	2.487	99	27003	5143.365	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 102867.30%#			
8) Nitrobenzene-d5	3.040	82	23044	4954.558	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 198182.32%#			
14) 2-Fluorobiphenyl	4.245	172	64813	4751.654	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 190066.16%#			
20) 2,4,6-Tribromophenol	5.225	330	10675	5167.511	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 103350.22%#			
29) 4-Terphenyl-d14	6.808	244	68628	4856.713	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 194268.52%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.020	88	9012	4589.055	ng/ml#	100
5) Bis(2-chloroethyl)ether	3.371	93	27283	5166.760	ng/ml	87
6) n-nitrosodi-n-propylamine	2.959	70	14521	4890.292	ng/ml	98
7) Hexachloroethane	3.000	117	10567	4735.623	ng/ml	86
10) Naphthalene	3.514	128	78939	4722.747	ng/ml	100
11) Hexachlorobutadiene	3.614	225	16214	4754.646	ng/ml	100
12) 2-Methylnaphthalene	3.984	142	54443	5001.590	ng/ml	100
13) 1-Methylnaphthalene	4.048	142	50108	4866.432	ng/ml	100
15) 2-Chloronaphthalene	4.308	162	54321	4908.956	ng/ml	100
16) Acenaphthylene	4.585	152	88540	4922.647	ng/ml	99
18) Acenaphthene	4.707	153	58918	4694.872	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : IL8.D
Acq On : 16 Sep 2020 05:59 pm
Operator : sv119:dv
Sample : IL8,32,,5.0
Misc : wg1410836,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 16 19:08:21 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:01:18 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\200916LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) Fluorene	5.059	166	61902	4839.105	ng/ml	99
22) 4,6-Dinitro-o-cresol	5.114	198	8768M6	4313.407	ng/ml	
23) Hexachlorobenzene	5.435	284	21618	4597.129	ng/ml	89
24) Pentachlorophenol	5.578	266	9936M6	4138.454	ng/ml	
25) Phenanthrene	5.707	178	93283	4638.300	ng/ml	99
26) Anthracene	5.742	178	94280	4928.446	ng/ml	100
27) Fluoranthene	6.519	202	102017	4739.834	ng/ml	96
28) Pyrene	6.666	202	105768	4747.032	ng/ml	98
31) Benzo[a]anthracene	7.493	228	98813	4841.390	ng/ml#	81
32) Chrysene	7.517	228	99461	4608.393	ug/ml	98
33) Bis(2-ethylhexyl)phtha...	7.584	149	56384	4820.459	ng/ml	100
35) Benzo[b]fluoranthene	8.214	252	97819	5075.954	ng/ml	99
36) Benzo[k]fluoranthene	8.235	252	94246	4853.680	ng/ml	99
37) Benzo[a]pyrene	8.458	252	81922	4957.682	ng/ml	100
38) Indeno[1,2,3-cd]pyrene	9.485	276	81410	5234.060	ng/ml#	69
39) Dibenzo[a,h]anthracene	9.522	278	84213	5442.607	ng/ml#	69
40) Benzo[g,h,i]perylene	9.757	276	86781	4970.347	ng/ml#	67

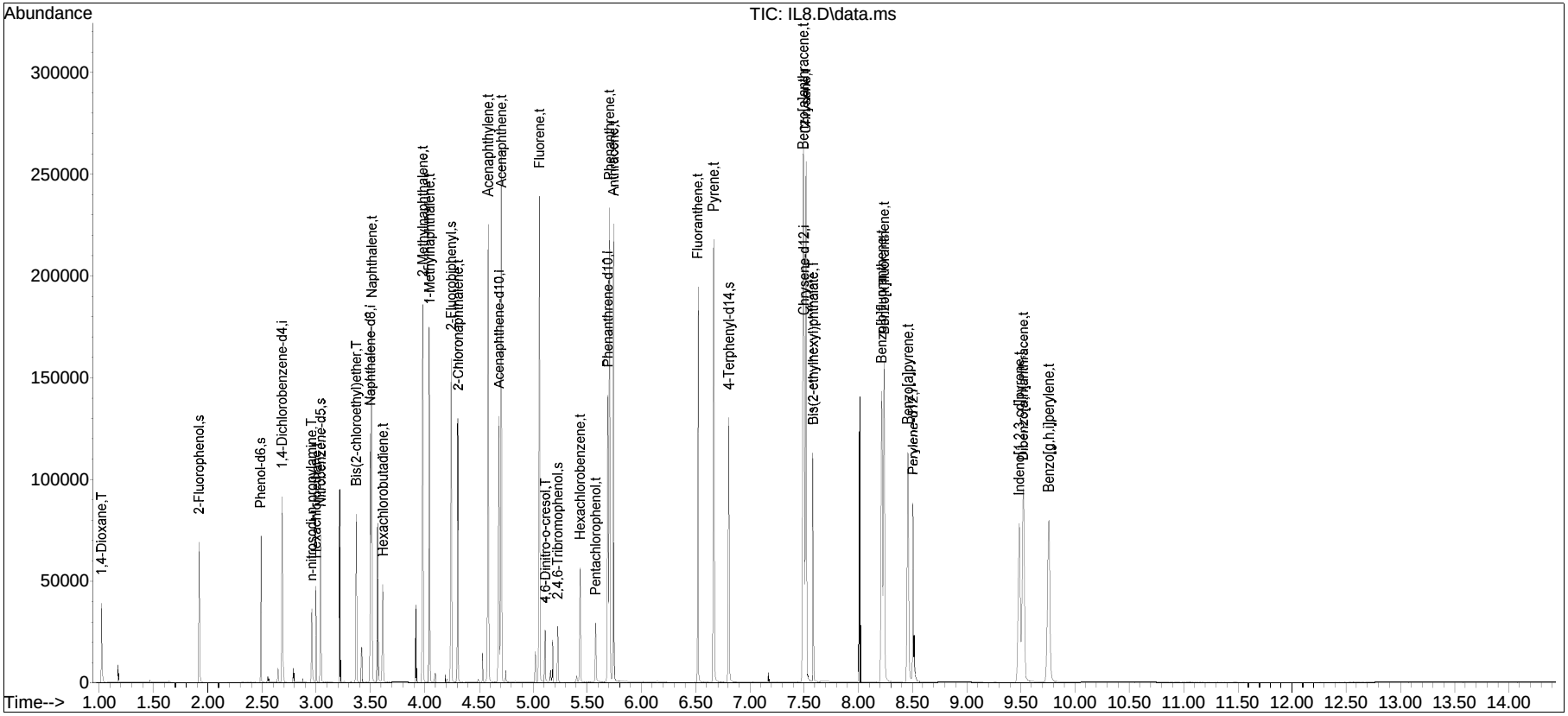
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : IL8.D
Acq On : 16 Sep 2020 05:59 pm
Operator : sv119:dv
Sample : IL8,32,,5.0
Misc : wg1410836,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 16 19:08:21 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:01:18 2020
Response via : Initial Calibration

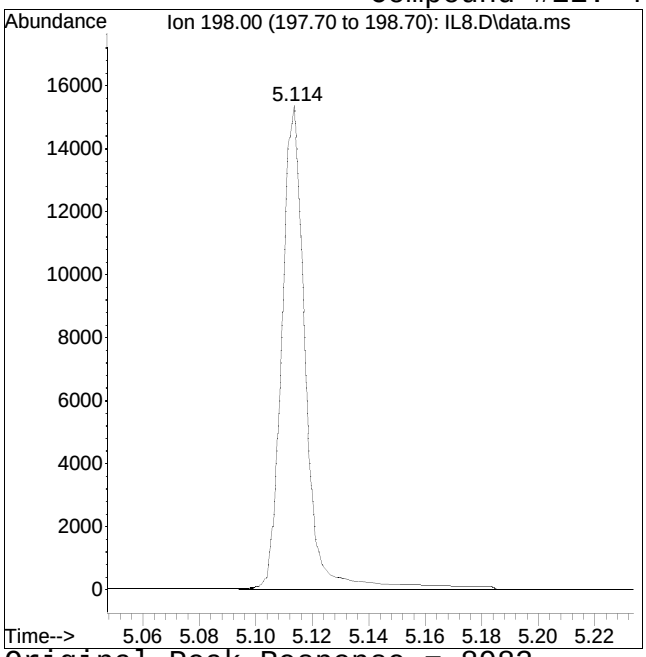
Sub List : Default - All compounds listedical\IL7.D•



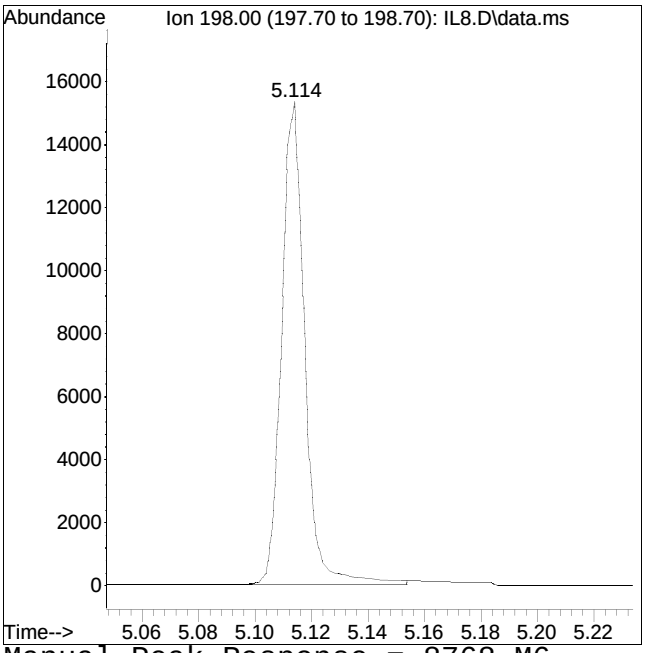
Manual Integration Report

Data Path : I:\8270SIM\sv119\200916LVIQMethod : SIM-LVI_200916_sv119.M
Data File : IL8.D Operator : sv119:dv
Date Inj'd : 9/16/2020 5:59 pm Instrument : SV119
Sample : IL8,32,,5.0 Quant Date : 9/16/2020 7:02 pm

Compound #22: 4,6-Dinitro-o-cresol



Original Peak Response = 8983



Manual Peak Response = 8768 M6

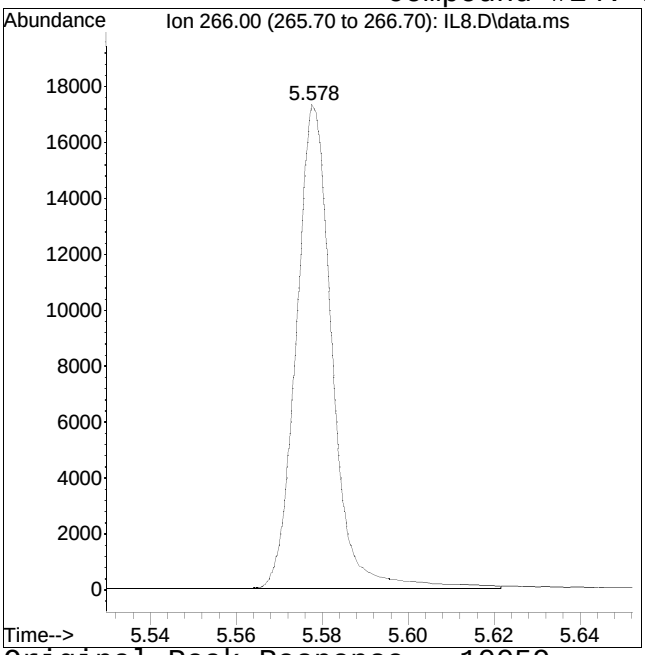
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

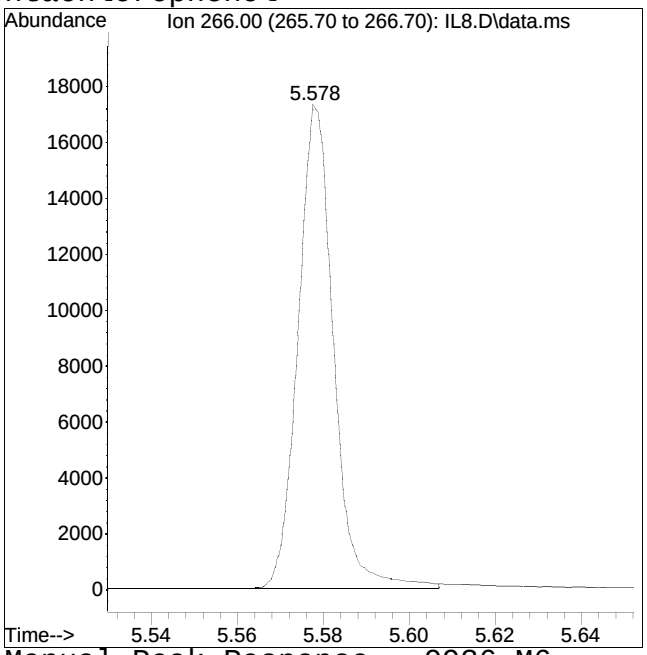
Data Path : I:\8270SIM\sv119\200916LVIQ
Data File : IL8.D
Date Inj'd : 9/16/2020 5:59 pm
Sample : IL8,32,,5.0

Method : SIM-LVI_200916_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 9/16/2020 7:02 pm

Compound #24: Pentachlorophenol



Original Peak Response = 10059



Manual Peak Response = 9936 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : IL9.D
Acq On : 16 Sep 2020 06:20 pm
Operator : sv119:dv
Sample : IL9,32,,10.0
Misc : wg1410836,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 16 19:02:30 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:01:18 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\200916LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.686	152	18610	4000.000	ng/ml	# 0.00
Standard Area 1 = 18132			Recovery = 102.64%			
9) Naphthalene-d8	3.500	136	68678	4000.000	ng/ml	# 0.00
Standard Area 1 = 66092			Recovery = 103.91%			
17) Acenaphthene-d10	4.686	164	38474	4000.000	ng/ml	0.00
Standard Area 1 = 36178			Recovery = 106.35%			
21) Phenanthrene-d10	5.691	188	78162	4000.000	ng/ml	# 0.00
Standard Area 1 = 76284			Recovery = 102.46%			
30) Chrysene-d12	7.501	240	67459	4000.000	ng/ml	# 0.00
Standard Area 1 = 69774			Recovery = 96.68%			
34) Perylene-d12	8.504	264	61288	4000.000	ng/ml	0.00
Standard Area 1 = 64380			Recovery = 95.20%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.916	112	48821	10580.151	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 211603.02%#			
4) Phenol-d6	2.489	99	58213	10729.375	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 214587.50%#			
8) Nitrobenzene-d5	3.042	82	50198	10443.655	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 417746.20%#			
14) 2-Fluorobiphenyl	4.244	172	140750	9768.480	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 390739.20%#			
20) 2,4,6-Tribromophenol	5.226	330	24022	10897.348	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 217946.96%#			
29) 4-Terphenyl-d14	6.808	244	149564	9895.040	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 395801.60%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.019	88	19353	9536.072	ng/ml#	100
5) Bis(2-chloroethyl)ether	3.374	93	58714	10759.373	ng/ml	88
6) n-nitrosodi-n-propylamine	2.961	70	32059	10447.379	ng/ml	98
7) Hexachloroethane	3.000	117	22371	9701.299	ng/ml	86
10) Naphthalene	3.513	128	167344	9477.835	ng/ml	100
11) Hexachlorobutadiene	3.614	225	34393	9547.595	ng/ml	100
12) 2-Methylnaphthalene	3.984	142	116308	10115.133	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : IL9.D
Acq On : 16 Sep 2020 06:20 pm
Operator : sv119:dv
Sample : IL9,32,,10.0
Misc : wg1410836,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 16 19:02:30 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:01:18 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\200916LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
13) 1-Methylnaphthalene	4.049	142	107612	9893.734 ng/ml	100
15) 2-Chloronaphthalene	4.308	162	117995	10094.408 ng/ml	99
16) Acenaphthylene	4.585	152	193960	10208.626 ng/ml	99
18) Acenaphthene	4.707	153	127425	9515.433 ng/ml	98
19) Fluorene	5.059	166	135167	9902.142 ng/ml	100
22) 4,6-Dinitro-o-cresol	5.116	198	22054	10045.742 ng/ml	92
23) Hexachlorobenzene	5.436	284	47455	9434.145 ng/ml	88
24) Pentachlorophenol	5.579	266	25756	9970.452 ng/ml	99
25) Phenanthrene	5.708	178	202305	9403.994 ng/ml	99
26) Anthracene	5.743	178	207403	10135.725 ng/ml	100
27) Fluoranthene	6.520	202	220040	9557.441 ng/ml	97
28) Pyrene	6.668	202	228635	9593.122 ng/ml	98
31) Benzo[a]anthracene	7.495	228	210334	10121.358 ng/ml#	81
32) Chrysene	7.519	228	205729	9352.724 ug/ml	98
33) Bis(2-ethylhexyl)phtha...	7.584	149	131077	10995.245 ng/ml	100
35) Benzo[b]fluoranthene	8.214	252	199621	10447.492 ng/ml	100
36) Benzo[k]fluoranthene	8.237	252	194505	10103.001 ng/ml	99
37) Benzo[a]pyrene	8.459	252	171370	10459.822 ng/ml	100
38) Indeno[1,2,3-cd]pyrene	9.484	276	169048	10961.813 ng/ml#	69
39) Dibenzo[a,h]anthracene	9.522	278	171819	11199.803 ng/ml#	69
40) Benzo[g,h,i]perylene	9.761	276	177590	10258.692 ng/ml#	67

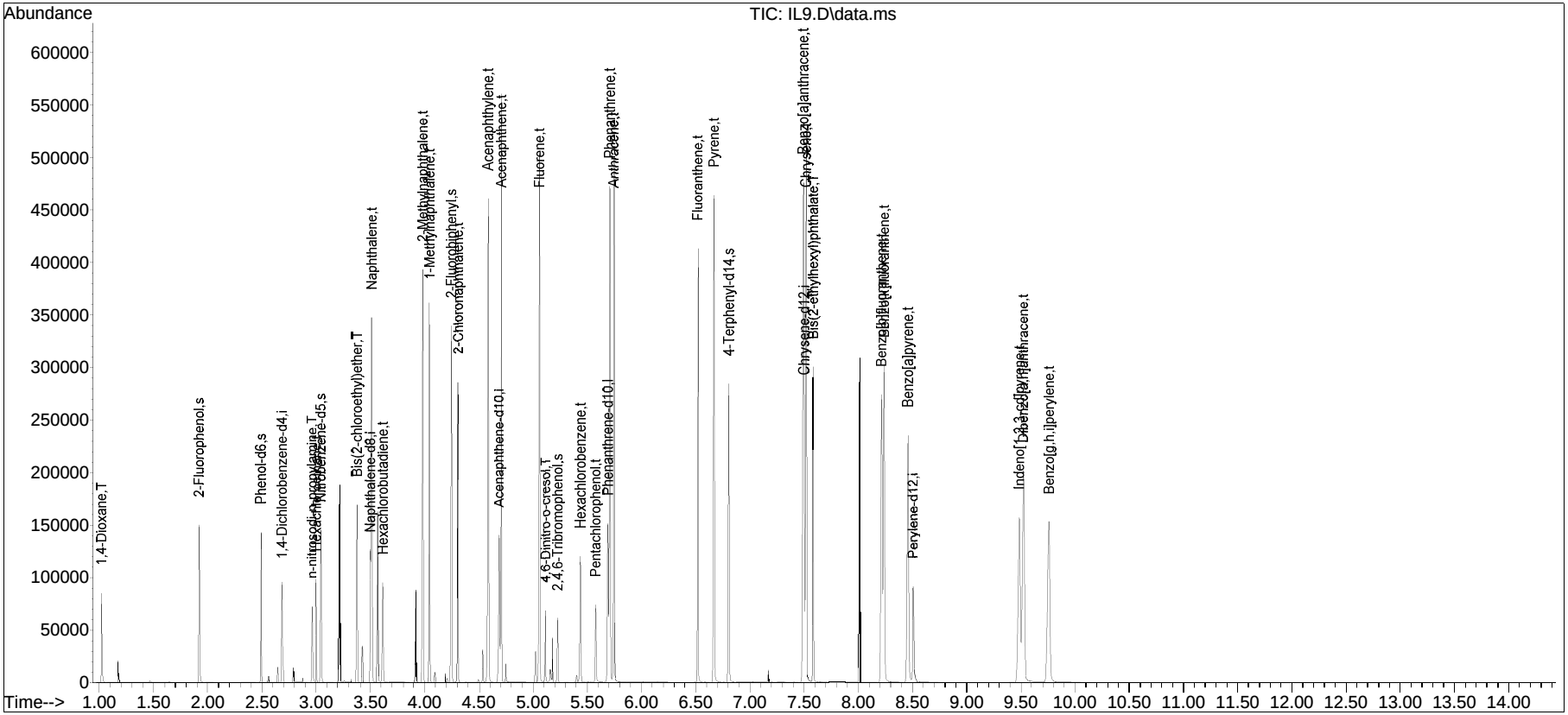
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : IL9.D
Acq On : 16 Sep 2020 06:20 pm
Operator : sv119:dv
Sample : IL9,32,,10.0
Misc : wg1410836,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 16 19:02:30 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:01:18 2020
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL7.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv119\200916LVIQ	Method	: SIM-LVI_200916_sv119.M
Data File	: IL9.D	Operator	: sv119:dv
Date Inj'd	: 9/16/2020 6:20 pm	Instrument	: SV119
Sample	: IL9,32,,10.0	Quant Date	: 9/16/2020 7:02 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : IL10.D
Acq On : 16 Sep 2020 06:42 pm
Operator : sv119:dv
Sample : IL10,32,,20.0
Misc : wg1410836,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 16 19:40:11 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:01:18 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\200916LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	2.684	152	19342	4000.000	ng/ml		0.00
Standard Area 1 = 18132			Recovery = 106.67%				
9) Naphthalene-d8	3.504	136	71721	4000.000	ng/ml	#	0.00
Standard Area 1 = 66092			Recovery = 108.52%				
17) Acenaphthene-d10	4.688	164	39564	4000.000	ng/ml		0.00
Standard Area 1 = 36178			Recovery = 109.36%				
21) Phenanthrene-d10	5.693	188	80278	4000.000	ng/ml	#	0.00
Standard Area 1 = 76284			Recovery = 105.24%				
30) Chrysene-d12	7.503	240	67439	4000.000	ng/ml	#	0.00
Standard Area 1 = 69774			Recovery = 96.65%				
34) Perylene-d12	8.506	264	62593	4000.000	ng/ml		0.00
Standard Area 1 = 64380			Recovery = 97.22%				
System Monitoring Compounds							
3) 2-Fluorophenol	1.917	112	98946	20631.387	ng/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 412627.74%#				
4) Phenol-d6	2.493	99	118682	21046.714	ng/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 420934.28%#				
8) Nitrobenzene-d5	3.044	82	102234	20464.751	ng/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 818590.04%#				
14) 2-Fluorobiphenyl	4.247	172	285506	18974.272	ng/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 758970.88%#				
20) 2,4,6-Tribromophenol	5.228	330	49296	21746.556	ng/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 434931.12%#				
29) 4-Terphenyl-d14	6.810	244	292657	18851.613	ng/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 754064.52%#				
Target Compounds							Qvalue
2) 1,4-Dioxane	1.016	88	54518	25846.761	ng/ml	#	100
5) Bis(2-chloroethyl)ether	3.376	93	119080	20995.639	ng/ml		88
6) n-nitrosodi-n-propylamine	2.965	70	66226	20764.951	ng/ml		98
7) Hexachloroethane	3.000	117	45527	18995.841	ng/ml		86
10) Naphthalene	3.517	128	338299	18347.252	ng/ml		100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : IL10.D
Acq On : 16 Sep 2020 06:42 pm
Operator : sv119:dv
Sample : IL10,32,,20.0
Misc : wg1410836,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 16 19:40:11 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:01:18 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\200916LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
11) Hexachlorobutadiene	3.615	225	70074	18627.395	ng/ml	100
12) 2-Methylnaphthalene	3.985	142	233296	19428.559	ng/ml	100
13) 1-Methylnaphthalene	4.050	142	218219	19211.593	ng/ml	100
15) 2-Chloronaphthalene	4.310	162	239399	19611.504	ng/ml	99
16) Acenaphthylene	4.589	152	388576	19584.045	ng/ml	100
18) Acenaphthene	4.711	153	254538	18483.904	ng/ml	98
19) Fluorene	5.062	166	270106	19242.428	ng/ml	99
22) 4,6-Dinitro-o-cresol	5.125	198	47444	20962.836	ng/ml	94
23) Hexachlorobenzene	5.439	284	94849	18359.144	ng/ml	88
24) Pentachlorophenol	5.581	266	56546	21265.916	ng/ml	99
25) Phenanthrene	5.712	178	399482	18080.152	ng/ml	100
26) Anthracene	5.746	178	411777	19593.002	ng/ml	100
27) Fluoranthene	6.522	202	431703	18256.780	ng/ml	97
28) Pyrene	6.672	202	452230	18474.629	ng/ml	98
31) Benzo[a]anthracene	7.497	228	416608	20062.267	ng/ml#	81
32) Chrysene	7.523	228	397866	18092.901	ug/ml	98
33) Bis(2-ethylhexyl)phtha...	7.584	149	271335	22767.377	ng/ml	100
35) Benzo[b]fluoranthene	8.218	252	391772	20076.541	ng/ml	98
36) Benzo[k]fluoranthene	8.243	252	382281M1	19442.495	ng/ml	
37) Benzo[a]pyrene	8.463	252	346359	20699.777	ng/ml	100
38) Indeno[1,2,3-cd]pyrene	9.497	276	358259	22746.740	ng/ml#	69
39) Dibenzo[a,h]anthracene	9.534	278	346743M6	22130.774	ng/ml	
40) Benzo[g,h,i]perylene	9.775	276	368340	20833.971	ng/ml#	67

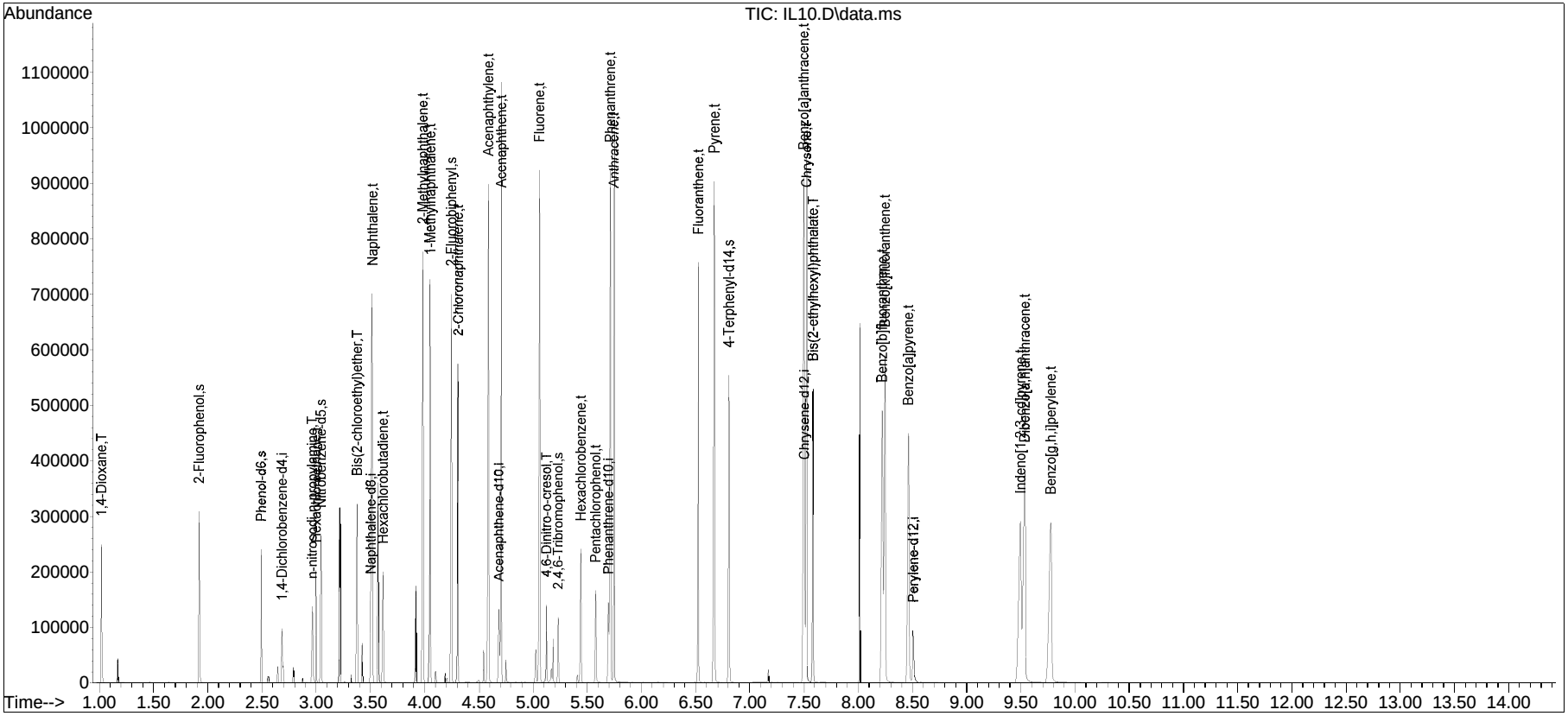
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : IL10.D
Acq On : 16 Sep 2020 06:42 pm
Operator : sv119:dv
Sample : IL10,32,,20.0
Misc : wg1410836,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 16 19:40:11 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:01:18 2020
Response via : Initial Calibration

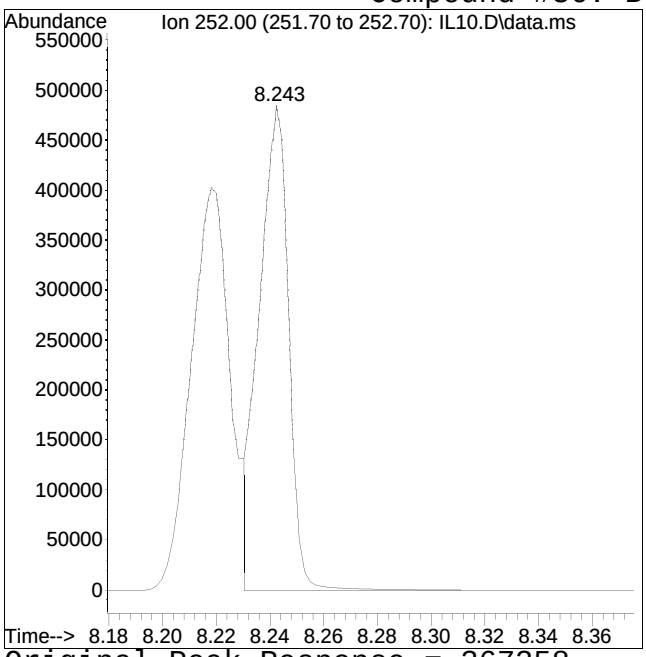
Sub List : Default - All compounds listedical\IL7.D•

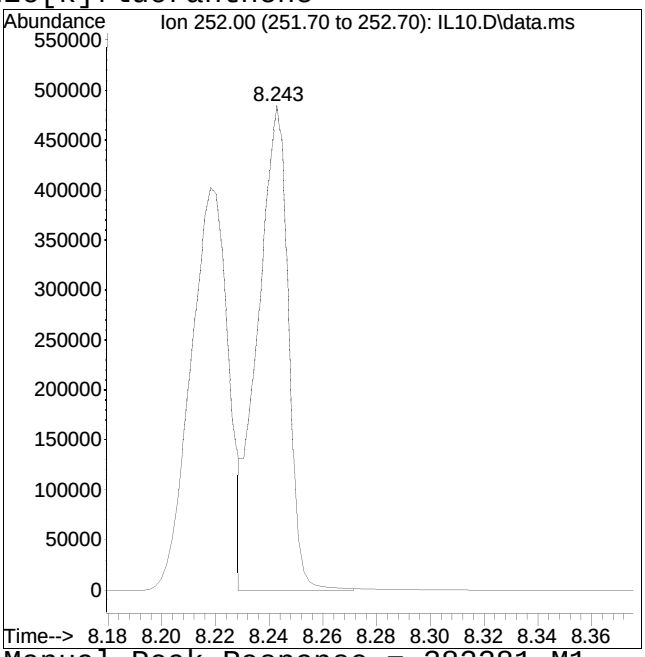


Manual Integration Report

Data Path : I:\8270SIM\sv119\200916LVIQMethod : SIM-LVI_200916_sv119.M
Data File : IL10.D Operator : sv119:dv
Date Inj'd : 9/16/2020 6:42 pm Instrument : SV119
Sample : IL10,32,,20.0 Quant Date : 9/16/2020 7:01 pm

Compound #36: Benzo[k]fluoranthene



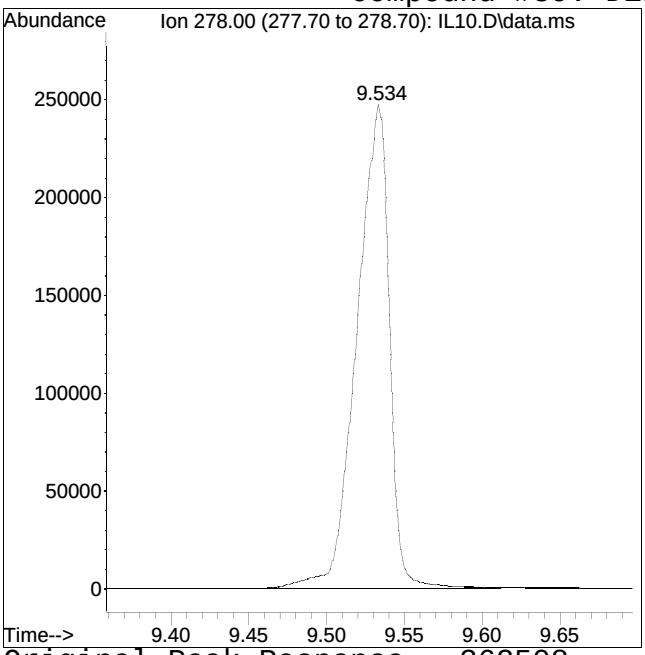


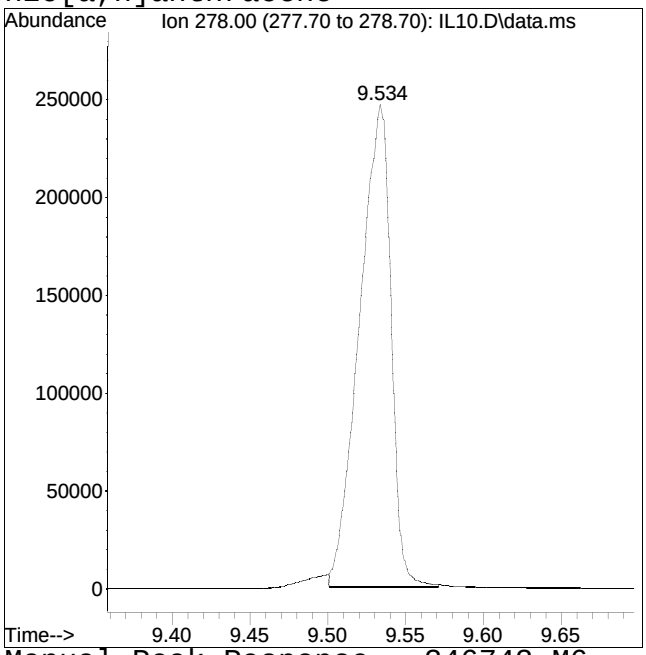
Original Peak Response = 367358 Manual Peak Response = 382281 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270SIM\sv119\200916LVIQMethod : SIM-LVI_200916_sv119.M
Data File : IL10.D Operator : sv119:dv
Date Inj'd : 9/16/2020 6:42 pm Instrument : SV119
Sample : IL10,32,,20.0 Quant Date : 9/16/2020 7:01 pm

Compound #39: Dibenzo[a,h]anthracene





Original Peak Response = 362508 Manual Peak Response = 346743 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : ICV.D
Acq On : 16 Sep 2020 07:04 pm
Operator : sv119:dv
Sample : CQICV,32,,1.0
Misc : wg1410836,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 16 19:48:37 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:48:35 2020
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	109	0.00
2	T	1,4-Dioxane	0.436	0.407	6.7	106	0.00
3	s	2-Fluorophenol	0.992	0.997	-0.5	107	0.00
4	s	Phenol-d6	1.166	1.128	3.3	102	0.00
5	T	Bis(2-chloroethyl)ether	1.173	1.226	-4.5	107	0.00
6	T	n-nitrosodi-n-propylamine	0.660	0.665	-0.8	109	0.00
7	t	Hexachloroethane	0.496	0.477	3.8	106	0.00
8	s	Nitrobenzene-d5	1.033	1.028	0.5	107	0.00
9	i	Naphthalene-d8	1.000	1.000	0.0	110	0.00
10	t	Naphthalene	1.028	0.992	3.5	107	0.00
11	t	Hexachlorobutadiene	0.210	0.200	4.8	106	0.00
12	t	2-Methylnaphthalene	0.670	0.674	-0.6	107	0.00
13	t	1-Methylnaphthalene	0.634	0.628	0.9	107	0.00
14	s	2-Fluorobiphenyl	0.839	0.809	3.6	106	0.00
15	t	2-Chloronaphthalene	0.681	0.678	0.4	107	0.00
16	t	Acenaphthylene	1.107	1.088	1.7	107	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	113	0.00
18	t	Acenaphthene	1.392	1.331	4.4	108	0.00
19	t	Fluorene	1.419	1.400	1.3	108	0.00
20	s	2,4,6-Tribromophenol	0.229	0.232	-1.3	108	0.00
21	i	Phenanthrene-d10	1.000	1.000	0.0	113	0.00
22	T	4,6-Dinitro-o-cresol	*1000.000	848.846	15.1	113	0.00
23	t	Hexachlorobenzene	0.257	0.239	7.0	107	0.00
24	t	Pentachlorophenol	*1000.000	1120.675	-12.1	123	0.00
25	t	Phenanthrene	1.101	1.034	6.1	107	0.00
26	t	Anthracene	1.047	1.016	3.0	107	0.00
27	t	Fluoranthene	1.178	1.099	6.7	105	0.00
28	t	Pyrene	1.220	1.125	7.8	105	0.00
29	s	4-Terphenyl-d14	0.774	0.697	9.9	98	0.00
30	i	Chrysene-d12	1.000	1.000	0.0	104	0.00
31	t	Benzo[a]anthracene	*1000.000	914.059	8.6	98	0.00
32	t	Chrysene	1.304	1.227	5.9	98	0.00
33	T	Bis(2-ethylhexyl)phthalate	0.707	0.639	9.6	103	0.00
34	i	Perylene-d12	1.000	1.000	0.0	101	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : ICV.D
Acq On : 16 Sep 2020 07:04 pm
Operator : sv119:dv
Sample : CQICV,32,,1.0
Misc : wg1410836,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 16 19:48:37 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:48:35 2020
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
35 t	Benzo[b]fluoranthene	1.247	1.225	1.8	98	0.00
36 t	Benzo[k]fluoranthene	1.262	1.202	4.8	96	0.00
37 t	Benzo[a]pyrene	1.069	1.001	6.4	97	0.00
38 t	Indeno[1,2,3-cd]pyrene	1.007	0.964	4.3	96	0.00
39 t	Dibenzo[a,h]anthracene	1.001	1.010	-0.9	97	0.00
40 t	Benzo[g,h,i]perylene	1.130	1.063	5.9	96	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : ICV.D
Acq On : 16 Sep 2020 07:04 pm
Operator : sv119:dv
Sample : CQICV,32,,1.0
Misc : wg1410836,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 16 19:48:37 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:48:35 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\200916LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.683	152	19690	4000.000	ng/ml	0.00
Standard Area 1 = 18132			Recovery = 108.59%			
9) Naphthalene-d8	3.501	136	72455	4000.000	ng/ml	# 0.00
Standard Area 1 = 66063			Recovery = 109.68%			
17) Acenaphthene-d10	4.684	164	40740	4000.000	ng/ml	0.00
Standard Area 1 = 36178			Recovery = 112.61%			
21) Phenanthrene-d10	5.691	188	86251	4000.000	ng/ml	# 0.00
Standard Area 1 = 76284			Recovery = 113.07%			
30) Chrysene-d12	7.498	240	72541	4000.000	ng/ml	# 0.00
Standard Area 1 = 69774			Recovery = 103.97%			
34) Perylene-d12	8.503	264	65273	4000.000	ng/ml	0.00
Standard Area 1 = 64347			Recovery = 101.44%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.918	112	4906	1004.878	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 20097.56%#			
4) Phenol-d6	2.486	99	5553	967.348	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 19346.96%#			
8) Nitrobenzene-d5	3.041	82	5062	995.380	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 39815.20%#			
14) 2-Fluorobiphenyl	4.244	172	14653	963.903	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 38556.12%#			
20) 2,4,6-Tribromophenol	5.223	330	2360	1011.044	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 20220.88%#			
29) 4-Terphenyl-d14	6.806	244	15020	900.517	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 36020.68%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.023	88	2001	931.899	ng/ml#	100
5) Bis(2-chloroethyl)ether	3.372	93	6037	1045.604	ng/ml	88
6) n-nitrosodi-n-propylamine	2.959	70	3272	1007.793	ng/ml	99
7) Hexachloroethane	2.999	117	2348	962.373	ng/ml	86
10) Naphthalene	3.514	128	17971	964.716	ng/ml	100
11) Hexachlorobutadiene	3.615	225	3621	952.748	ng/ml	100
12) 2-Methylnaphthalene	3.982	142	12210	1006.473	ng/ml	99
13) 1-Methylnaphthalene	4.046	142	11379	991.582	ng/ml	99
15) 2-Chloronaphthalene	4.307	162	12275	995.322	ng/ml	99
16) Acenaphthylene	4.583	152	19710	983.263	ng/ml	99
18) Acenaphthene	4.705	153	13560	956.269	ng/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : ICV.D
Acq On : 16 Sep 2020 07:04 pm
Operator : sv119:dv
Sample : CQICV,32,,1.0
Misc : wg1410836,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 16 19:48:37 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:48:35 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\200916LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) Fluorene	5.058	166	14260	986.562	ng/ml	99
22) 4,6-Dinitro-o-cresol	5.111	198	1581M6	848.846	ng/ml	
23) Hexachlorobenzene	5.434	284	5154	928.531	ng/ml	89
24) Pentachlorophenol	5.577	266	1887	1120.675	ng/ml	99
25) Phenanthrene	5.707	178	22304	939.550	ng/ml	100
26) Anthracene	5.741	178	21914	970.494	ng/ml	99
27) Fluoranthene	6.517	202	23699	932.828	ng/ml	96
28) Pyrene	6.664	202	24262	922.519	ng/ml	98
31) Benzo[a]anthracene	7.489	228	20612	914.059	ng/ml#	81
32) Chrysene	7.513	228	22245	940.441	ug/ml	97
33) Bis(2-ethylhexyl)phtha...	7.583	149	11591	904.182	ng/ml	100
35) Benzo[b]fluoranthene	8.211	252	19988	982.182	ng/ml	99
36) Benzo[k]fluoranthene	8.231	252	19620	952.585	ng/ml	100
37) Benzo[a]pyrene	8.452	252	16327	935.650	ng/ml	100
38) Indeno[1,2,3-cd]pyrene	9.477	276	15737	958.101	ng/ml#	69
39) Dibenzo[a,h]anthracene	9.512	278	16480	1008.585	ng/ml#	68
40) Benzo[g,h,i]perylene	9.745	276	17350	941.064	ng/ml#	67

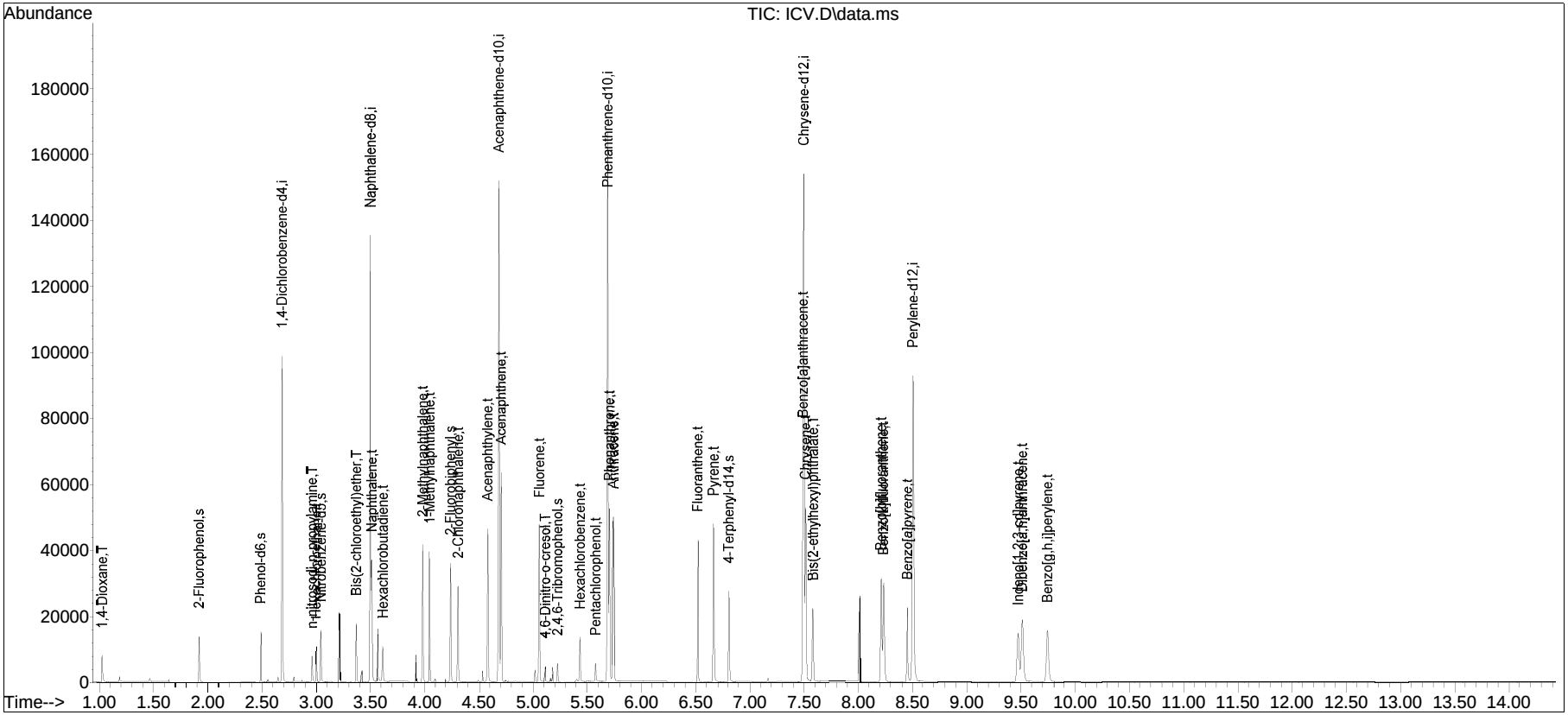
(#) = qualifier out of range (m) = manual integration (+) = signals summed

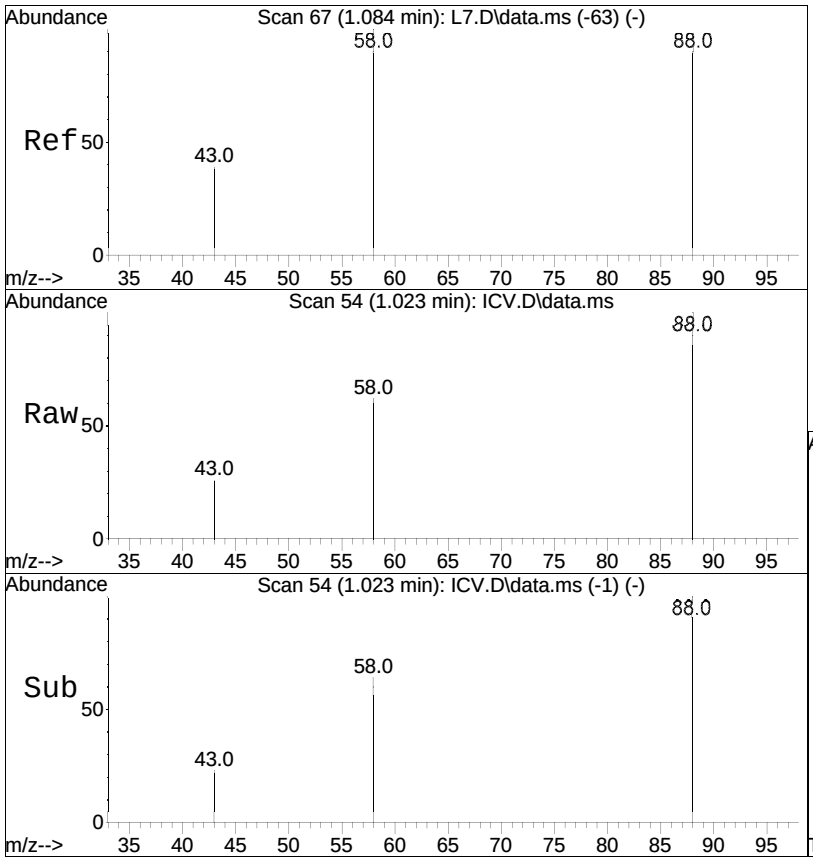
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\200916LVIical\
Data File : ICV.D
Acq On : 16 Sep 2020 07:04 pm
Operator : sv119:dv
Sample : CQICV,32,,1.0
Misc : wg1410836,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 16 19:48:37 2020
Quant Method : I:\8270SIM\sv119\200916LVIical\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Sep 16 19:48:35 2020
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL7.D•

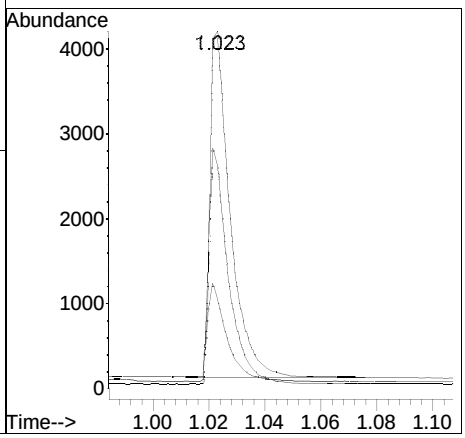


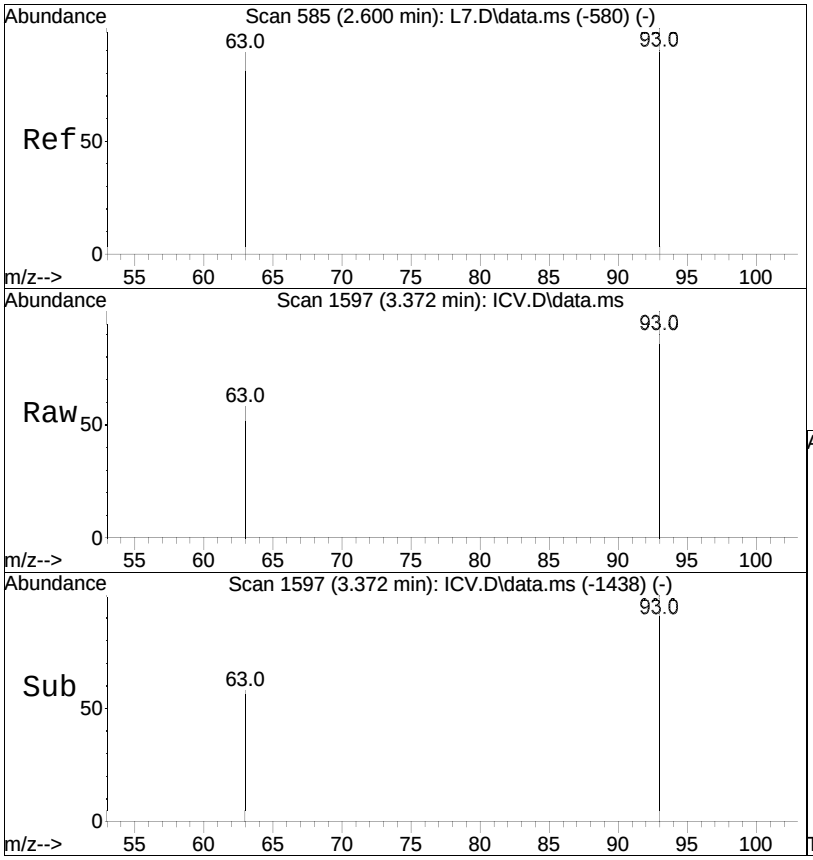


#2
1,4-Dioxane
Concen: 931.90 ng/ml
RT: 1.023 min Scan# 54
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 16 Sep 2020 07:04 pm

Tgt Ion: 88 Resp: 2001

Ion	Ratio	Lower	Upper
88	100		
58	66.5	0.0	0.0#
43	26.7	0.0	0.0#

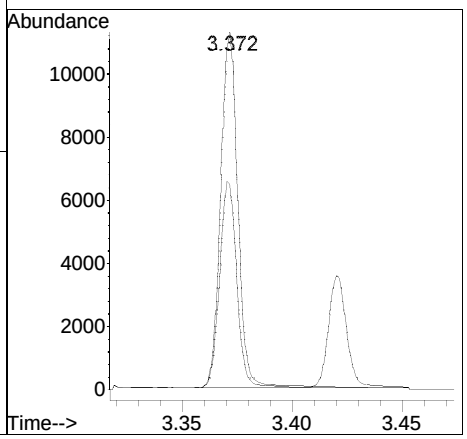


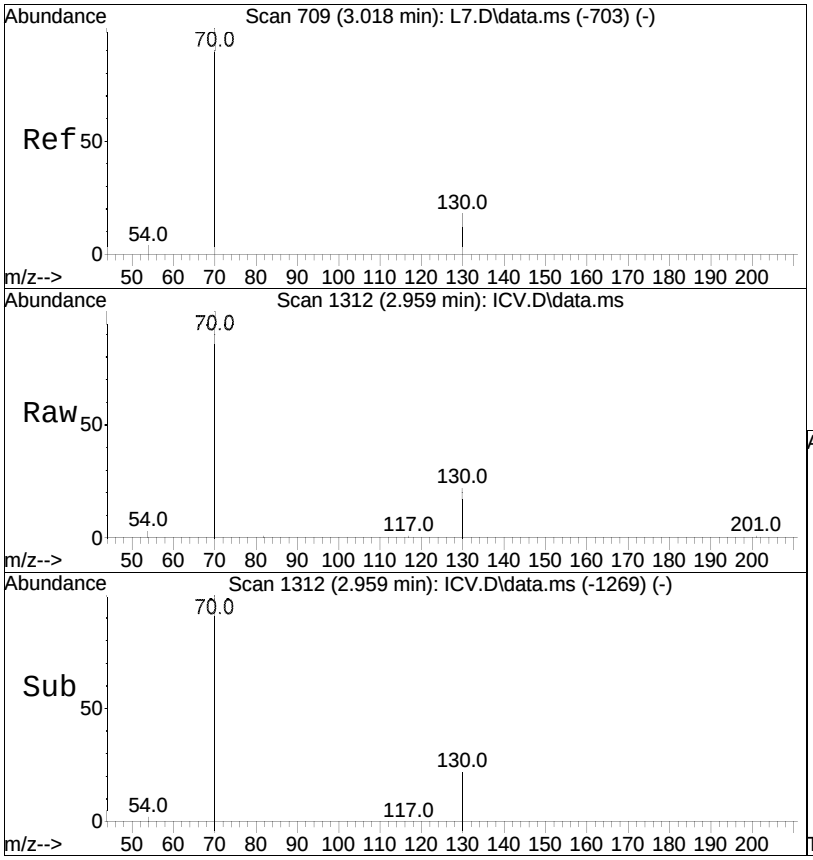


#5
Bis(2-chloroethyl)ether
Concen: 1045.60 ng/ml
RT: 3.372 min Scan# 1597
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 16 Sep 2020 07:04 pm

Tgt Ion: 93 Resp: 6037

Ion	Ratio	Lower	Upper
93	100		
63	59.1	55.1	82.7

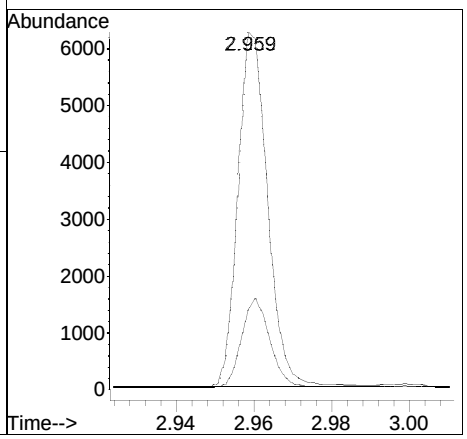


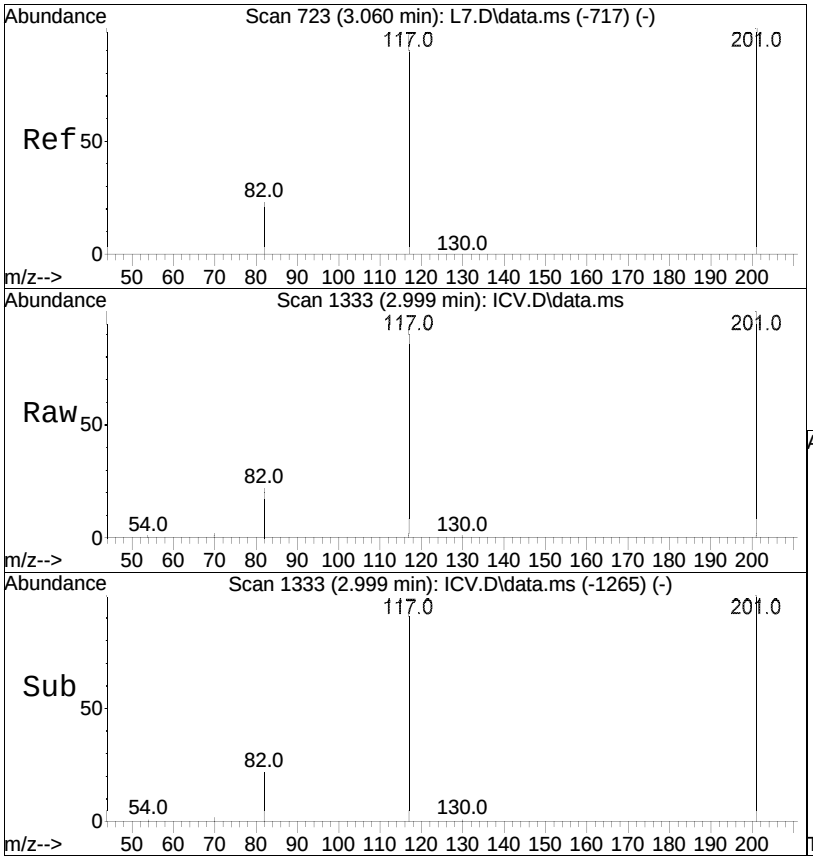


#6
n-nitrosodi-n-propylamine
Concen: 1007.79 ng/ml
RT: 2.959 min Scan# 1312
Delta R.T. -0.000 min
Lab File: ICV.D
Acq: 16 Sep 2020 07:04 pm

Tgt Ion: 70 Resp: 3272

Ion	Ratio	Lower	Upper
70	100		
130	24.0	18.9	28.3

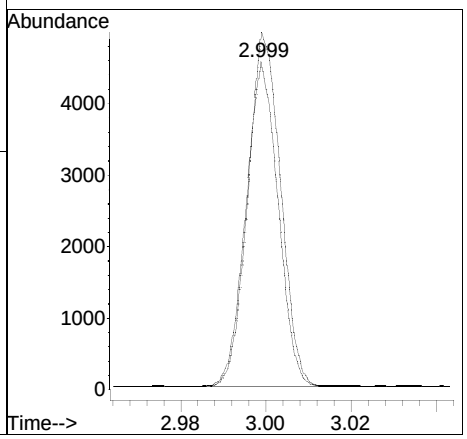


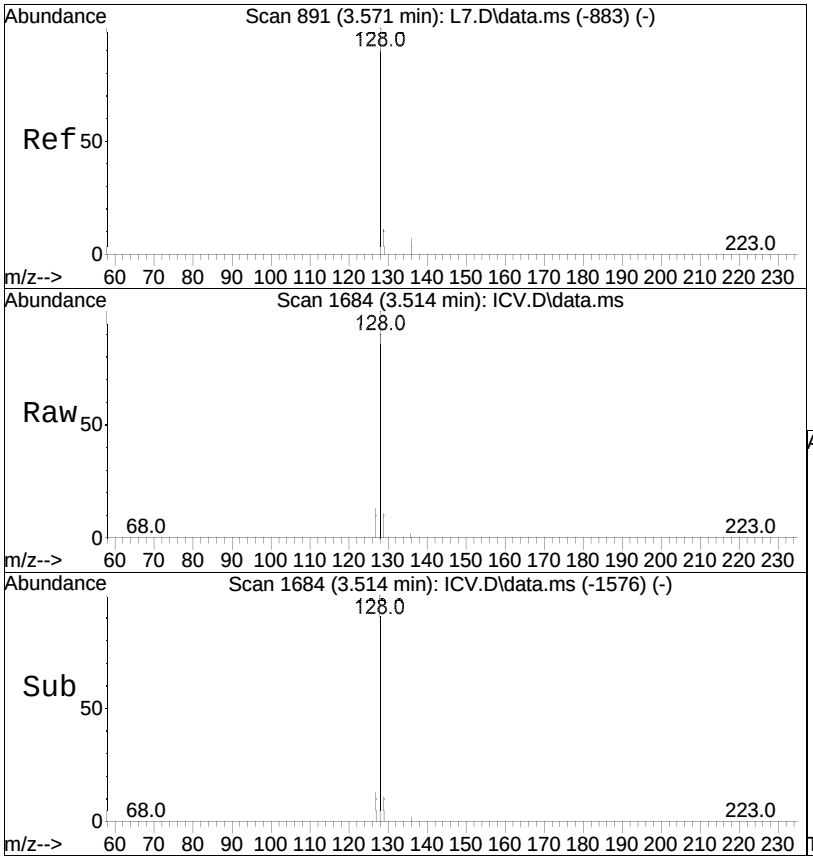


#7
Hexachloroethane
Concen: 962.37 ng/ml
RT: 2.999 min Scan# 1333
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 16 Sep 2020 07:04 pm

Tgt Ion:117 Resp: 2348

Ion	Ratio	Lower	Upper
117	100		
201	111.1	78.0	117.0

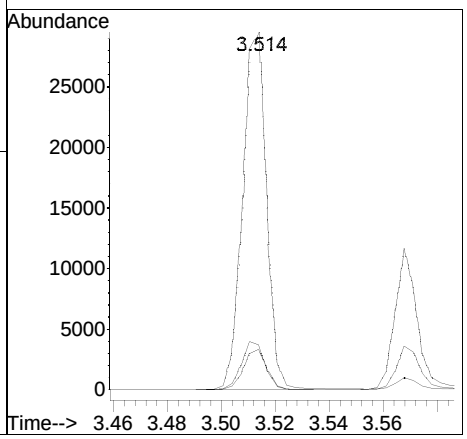


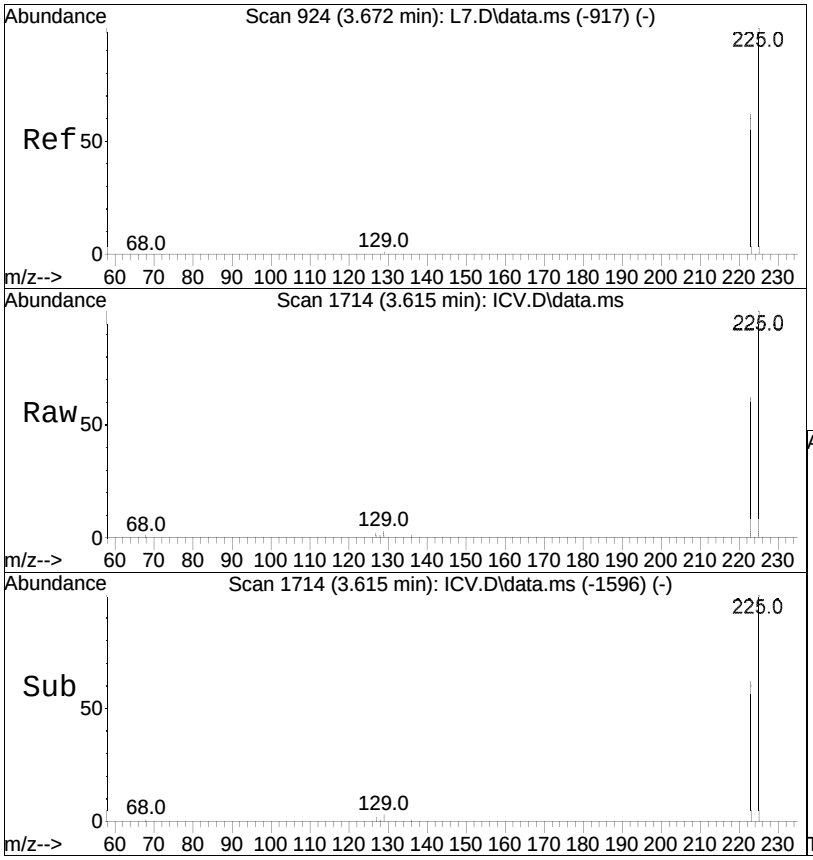


#10
Naphthalene
Concen: 964.72 ng/ml
RT: 3.514 min Scan# 1684
Delta R.T. 0.000 min
Lab File: ICV.D
Acq: 16 Sep 2020 07:04 pm

Tgt Ion:128 Resp: 17971

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	13.1	10.6	16.0

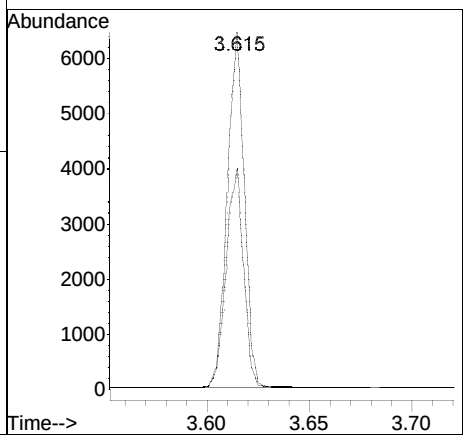


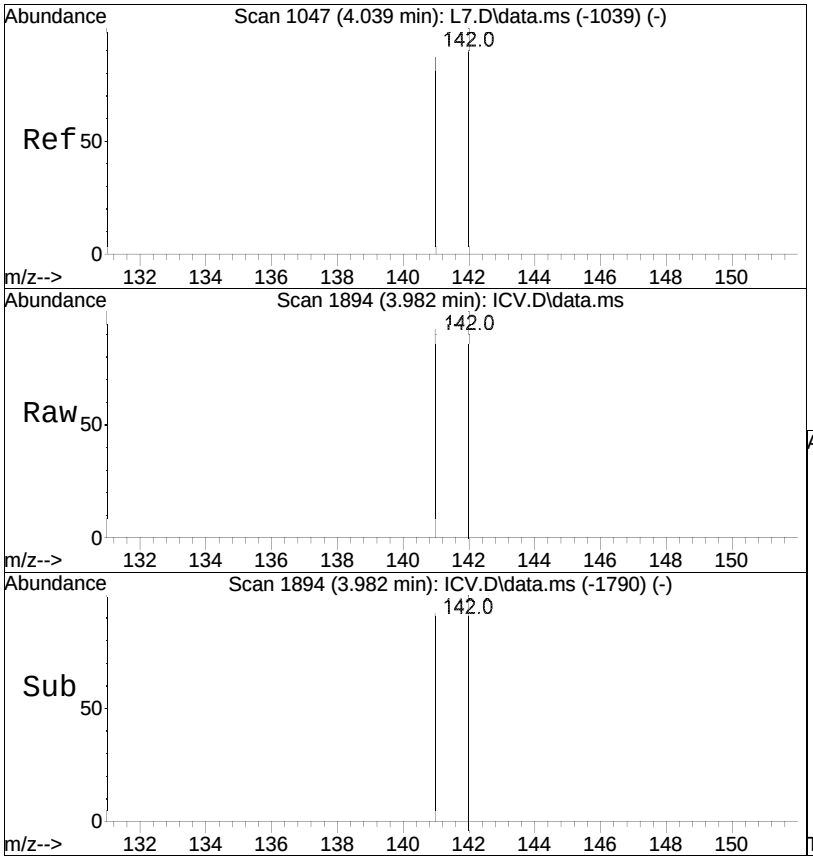


#11
Hexachlorobutadiene
Concen: 952.75 ng/ml
RT: 3.615 min Scan# 1714
Delta R.T. -0.000 min
Lab File: ICV.D
Acq: 16 Sep 2020 07:04 pm

Tgt Ion:225 Resp: 3621

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.4	75.6

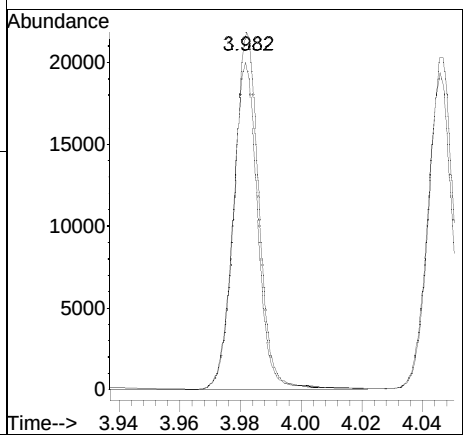


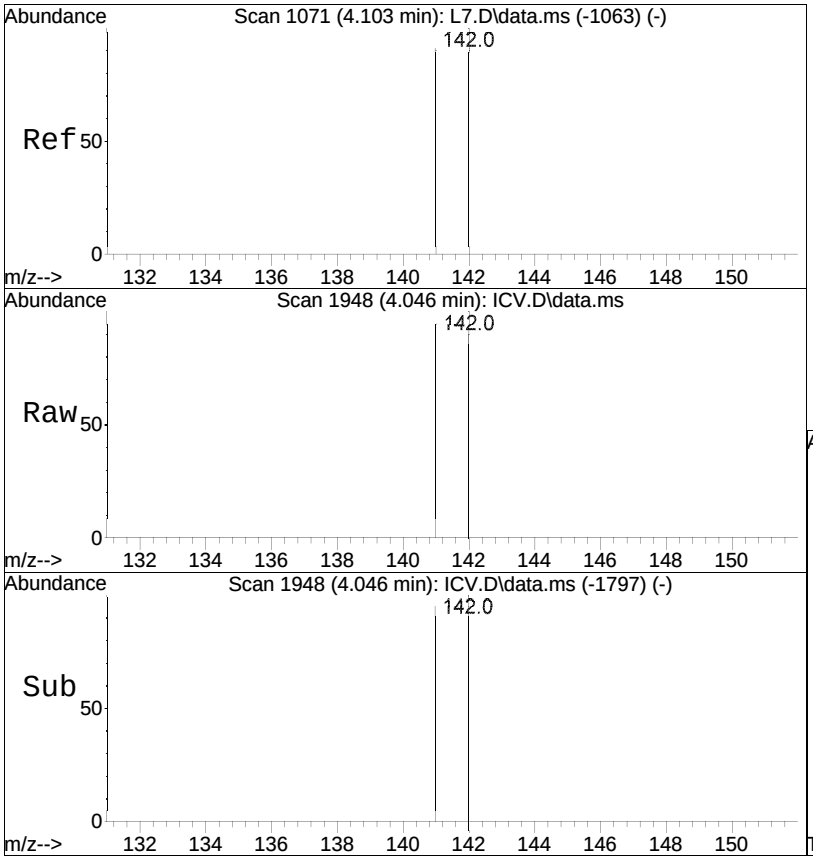


#12
2-Methylnaphthalene
Concen: 1006.47 ng/ml
RT: 3.982 min Scan# 1894
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 16 Sep 2020 07:04 pm

Tgt Ion:142 Resp: 12210

Ion	Ratio	Lower	Upper
142	100		
141	92.2	73.0	109.6

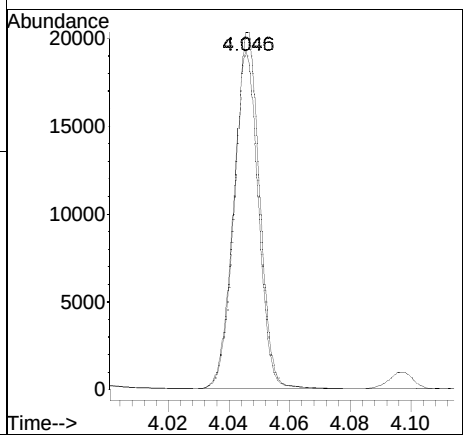


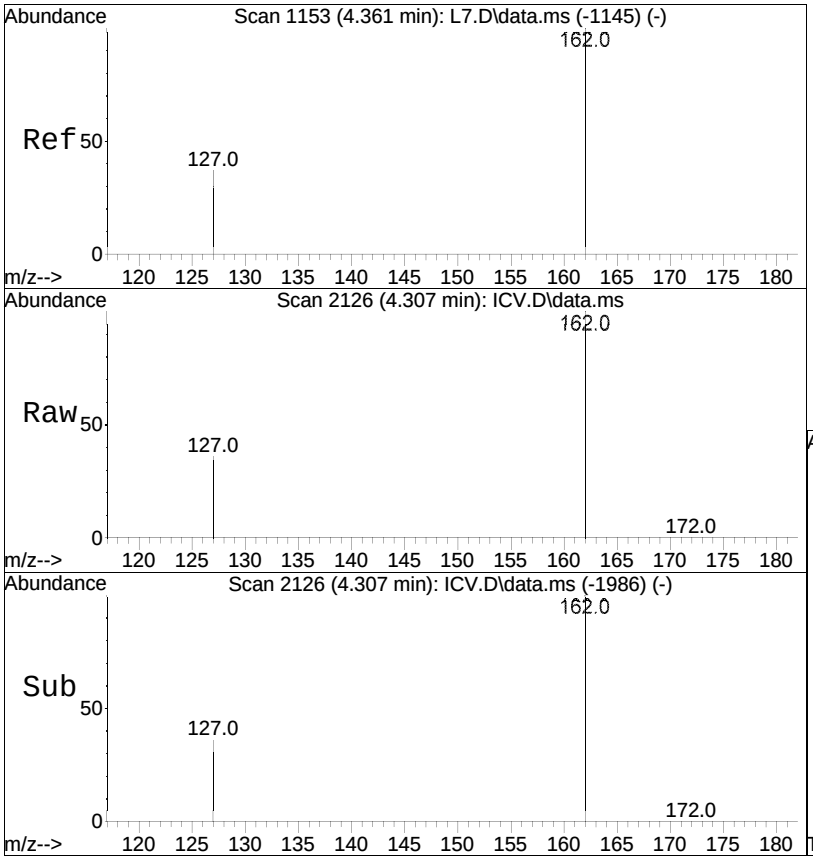


#13
1-Methylnaphthalene
Concen: 991.58 ng/ml
RT: 4.046 min Scan# 1948
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 16 Sep 2020 07:04 pm

Tgt Ion:142 Resp: 11379

Ion	Ratio	Lower	Upper
142	100		
141	95.3	75.6	113.4

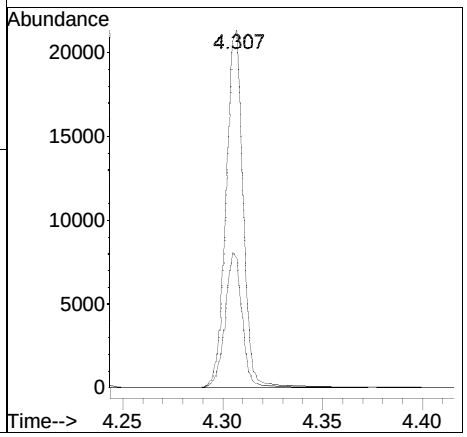


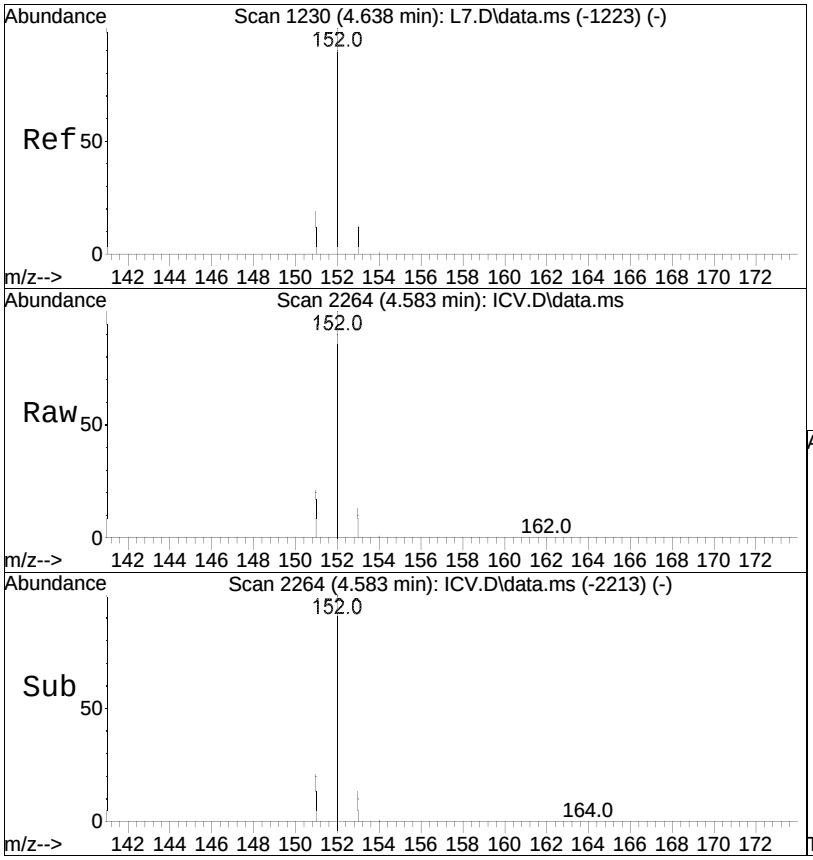


#15
2-Chloronaphthalene
Concen: 995.32 ng/ml
RT: 4.307 min Scan# 2126
Delta R.T. 0.001 min
Lab File: ICV.D
Acq: 16 Sep 2020 07:04 pm

Tgt Ion:162 Resp: 12275

Ion	Ratio	Lower	Upper
162	100		
127	37.6	29.8	44.6

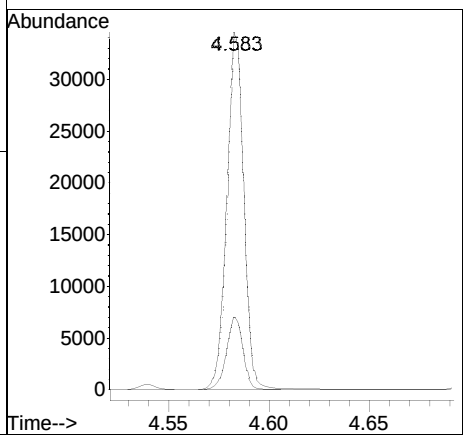


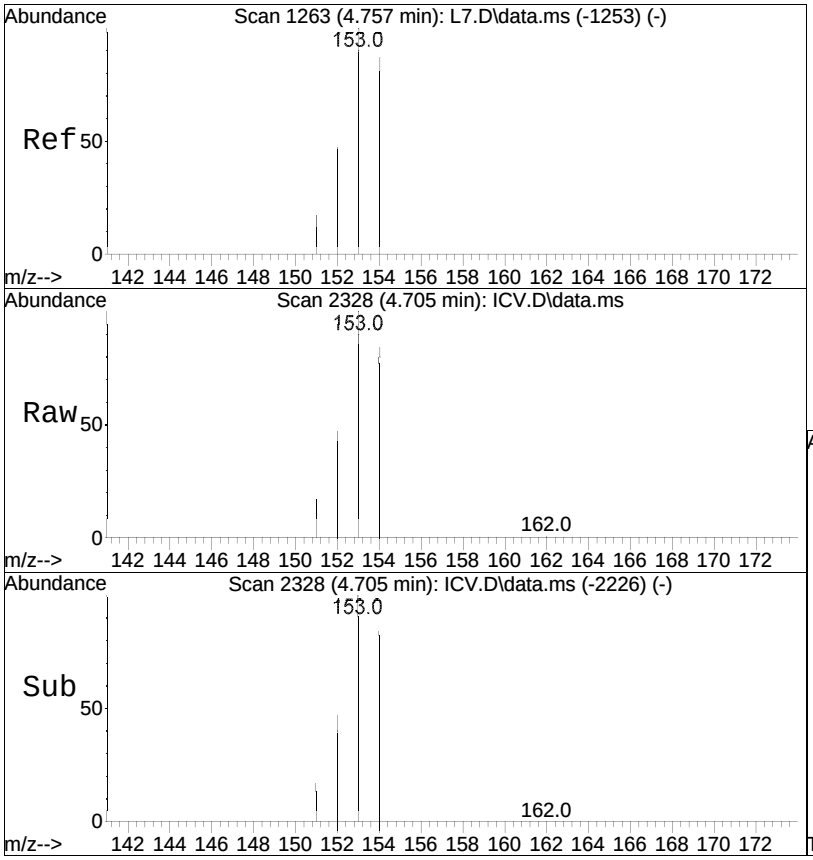


#16
Acenaphthylene
Concen: 983.26 ng/ml
RT: 4.583 min Scan# 2264
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 16 Sep 2020 07:04 pm

Tgt Ion:152 Resp: 19710

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.3	24.5

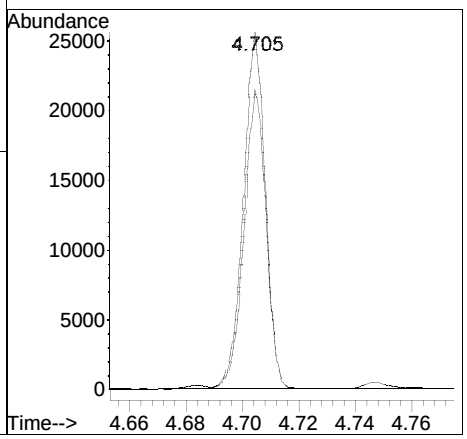


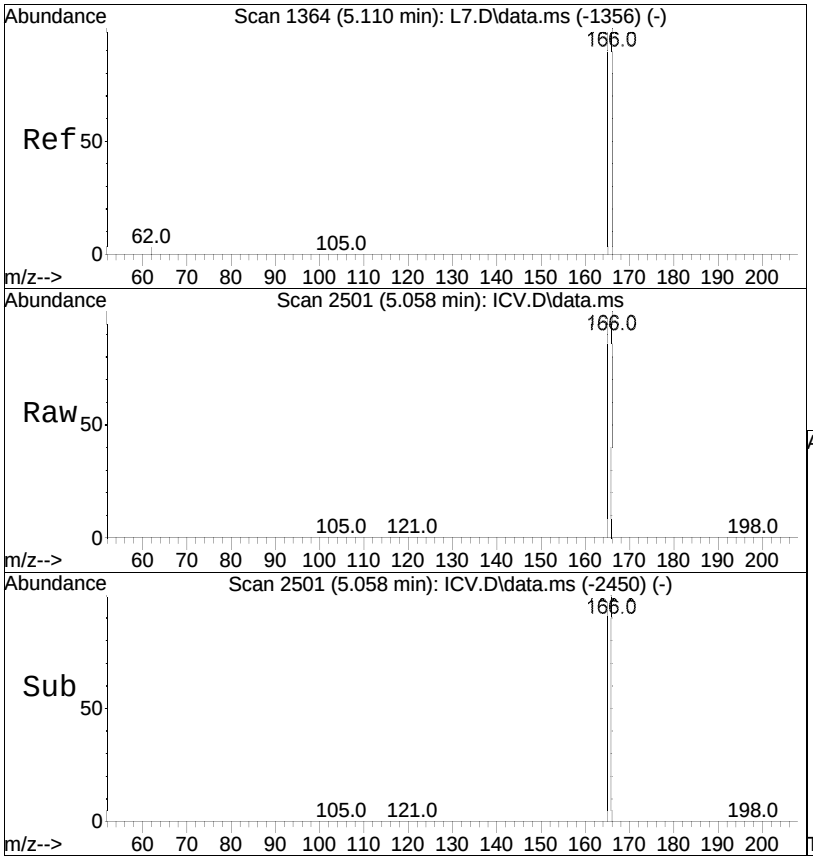


#18
Acenaphthene
Concen: 956.27 ng/ml
RT: 4.705 min Scan# 2328
Delta R.T. -0.000 min
Lab File: ICV.D
Acq: 16 Sep 2020 07:04 pm

Tgt Ion:153 Resp: 13560

Ion	Ratio	Lower	Upper
153	100		
154	84.9	69.8	104.8

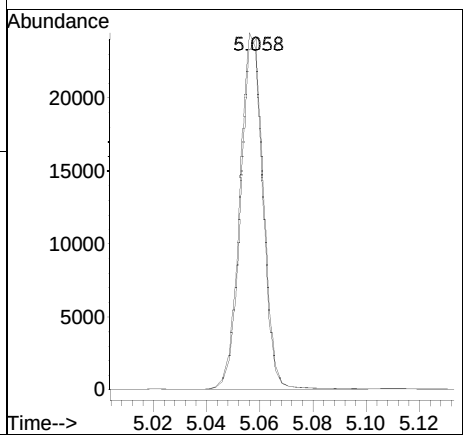


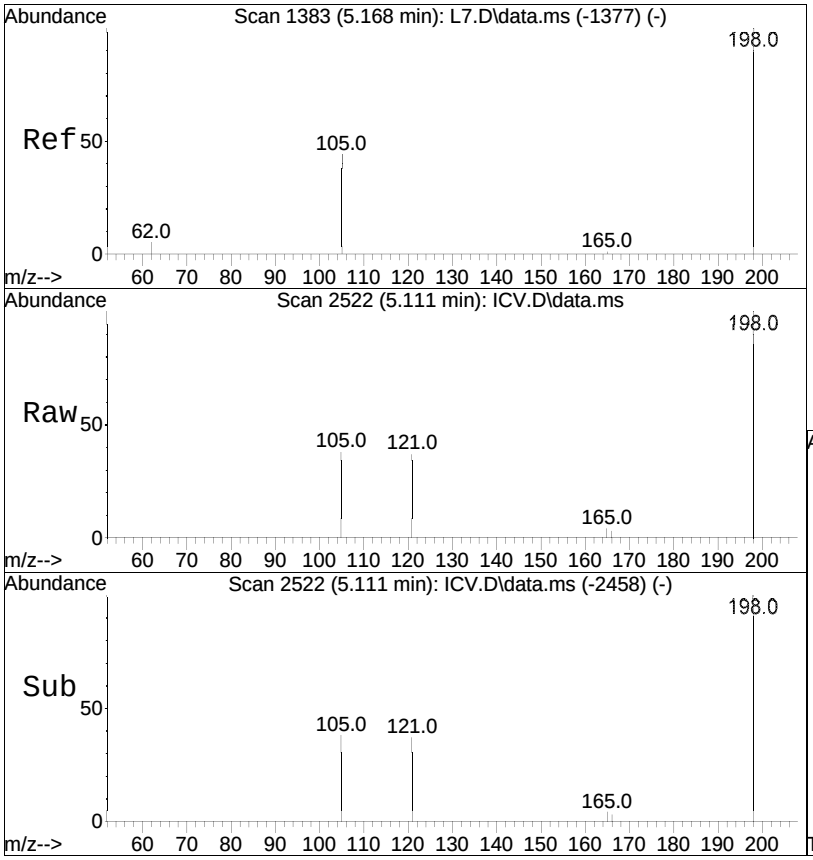


#19
Fluorene
Concen: 986.56 ng/ml
RT: 5.058 min Scan# 2501
Delta R.T. 0.001 min
Lab File: ICV.D
Acq: 16 Sep 2020 07:04 pm

Tgt Ion:166 Resp: 14260

Ion	Ratio	Lower	Upper
166	100		
165	101.7	80.9	121.3

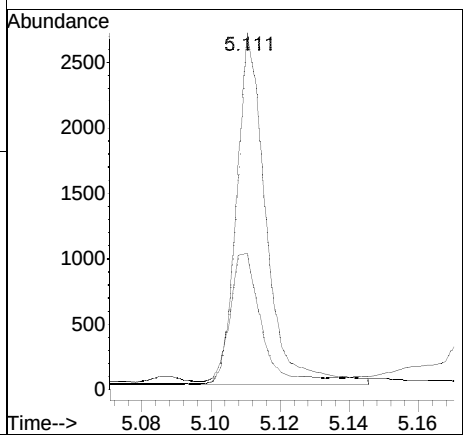


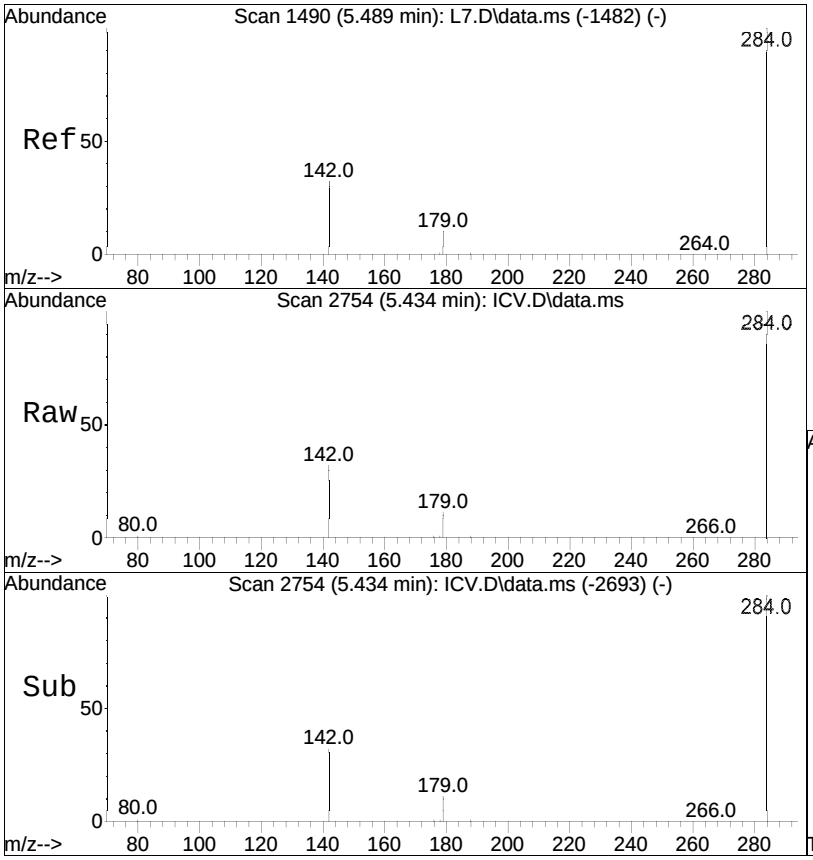


#22
4,6-Dinitro-o-cresol
Concen: 848.85 ng/ml M6
RT: 5.111 min Scan# 2522
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 16 Sep 2020 07:04 pm

Tgt Ion:198 Resp: 1581

Ion	Ratio	Lower	Upper
198	100		
105	37.4	33.4	50.0

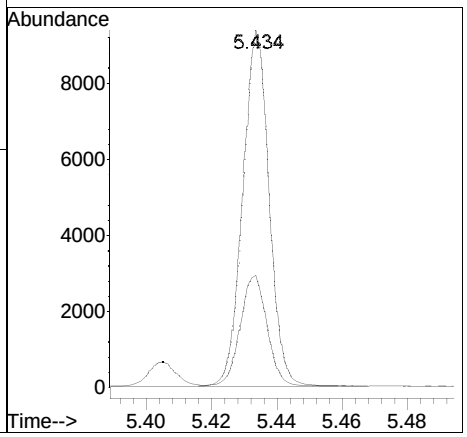


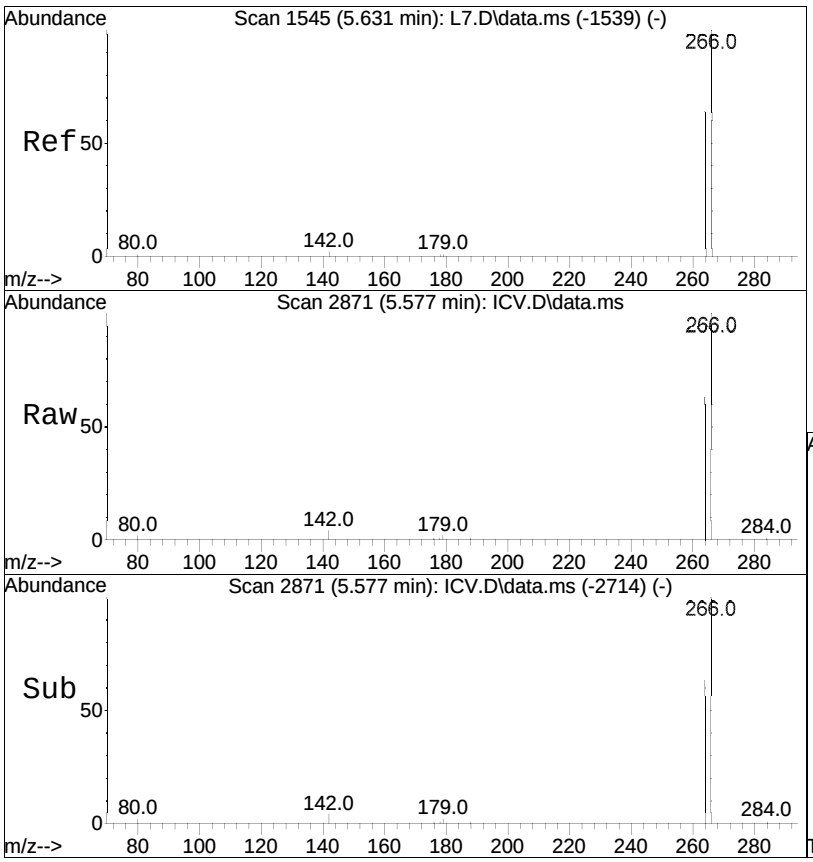


#23
Hexachlorobenzene
Concen: 928.53 ng/ml
RT: 5.434 min Scan# 2754
Delta R.T. -0.000 min
Lab File: ICV.D
Acq: 16 Sep 2020 07:04 pm

Tgt Ion:284 Resp: 5154

Ion	Ratio	Lower	Upper
284	100		
142	32.2	31.2	46.8

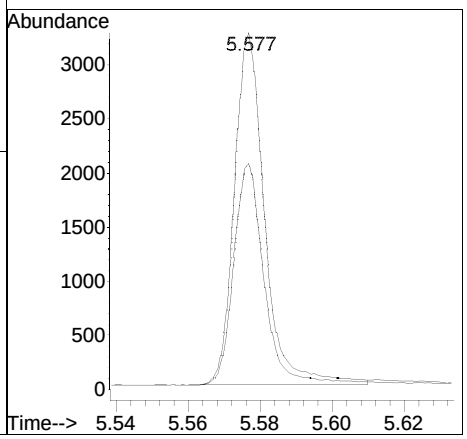


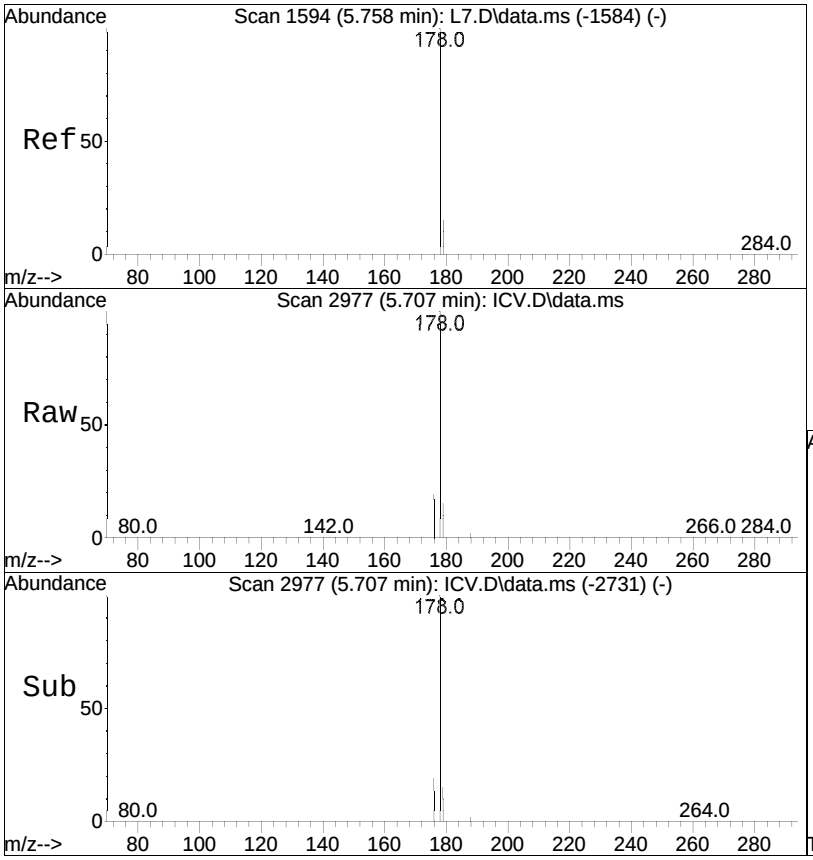


#24
Pentachlorophenol
Concen: 1120.67 ng/ml
RT: 5.577 min Scan# 2871
Delta R.T. -0.000 min
Lab File: ICV.D
Acq: 16 Sep 2020 07:04 pm

Tgt Ion:266 Resp: 1887

Ion	Ratio	Lower	Upper
266	100		
264	64.2	50.9	76.3

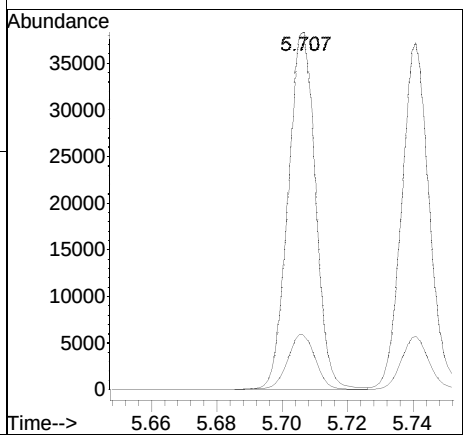


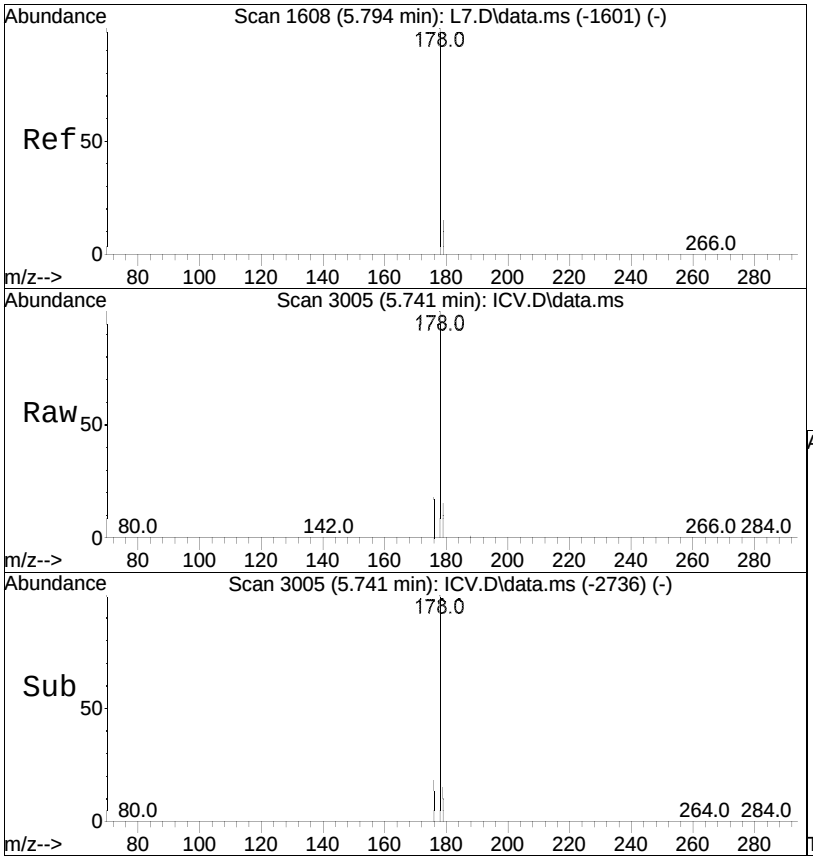


#25
Phenanthrene
Concen: 939.55 ng/ml
RT: 5.707 min Scan# 2977
Delta R.T. -0.000 min
Lab File: ICV.D
Acq: 16 Sep 2020 07:04 pm

Tgt Ion:178 Resp: 22304

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.5	18.7

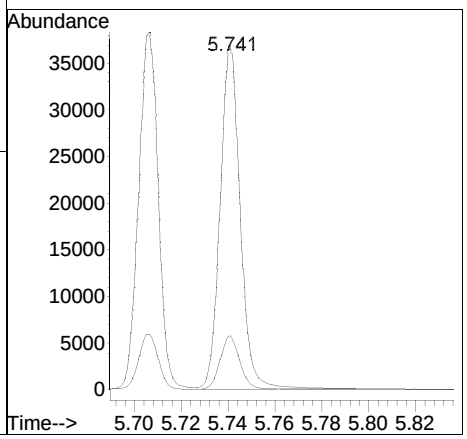


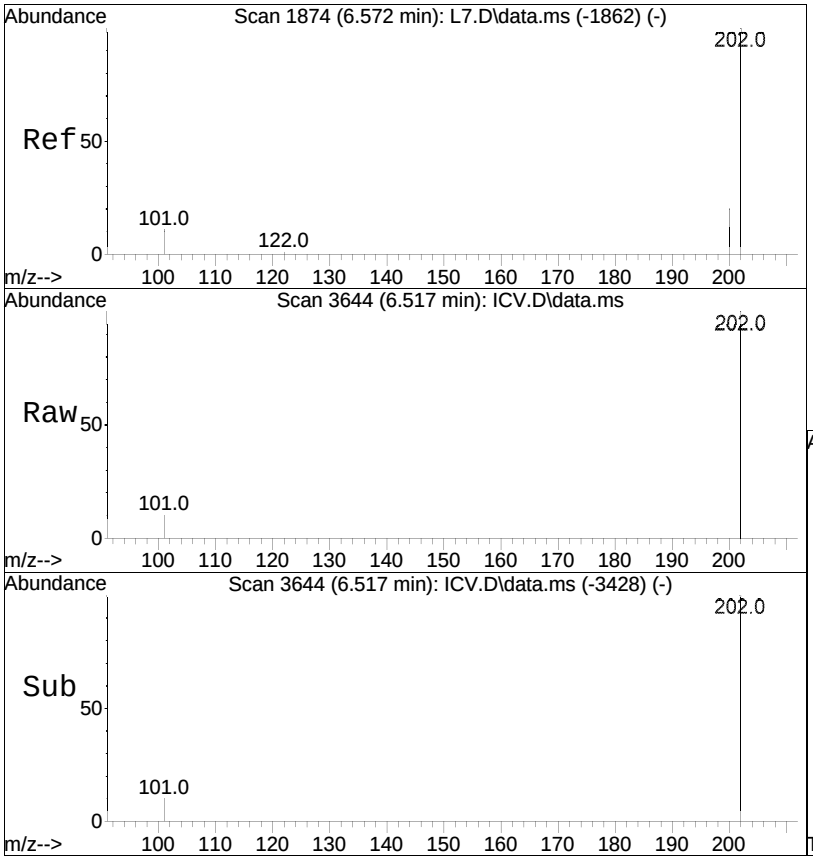


#26
Anthracene
Concen: 970.49 ng/ml
RT: 5.741 min Scan# 3005
Delta R.T. -0.000 min
Lab File: ICV.D
Acq: 16 Sep 2020 07:04 pm

Tgt Ion:178 Resp: 21914

Ion	Ratio	Lower	Upper
178	100		
179	15.0	12.2	18.4

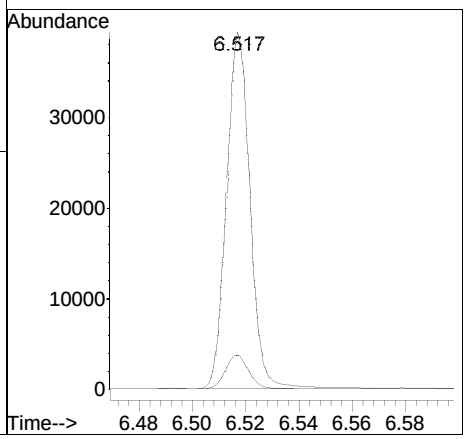


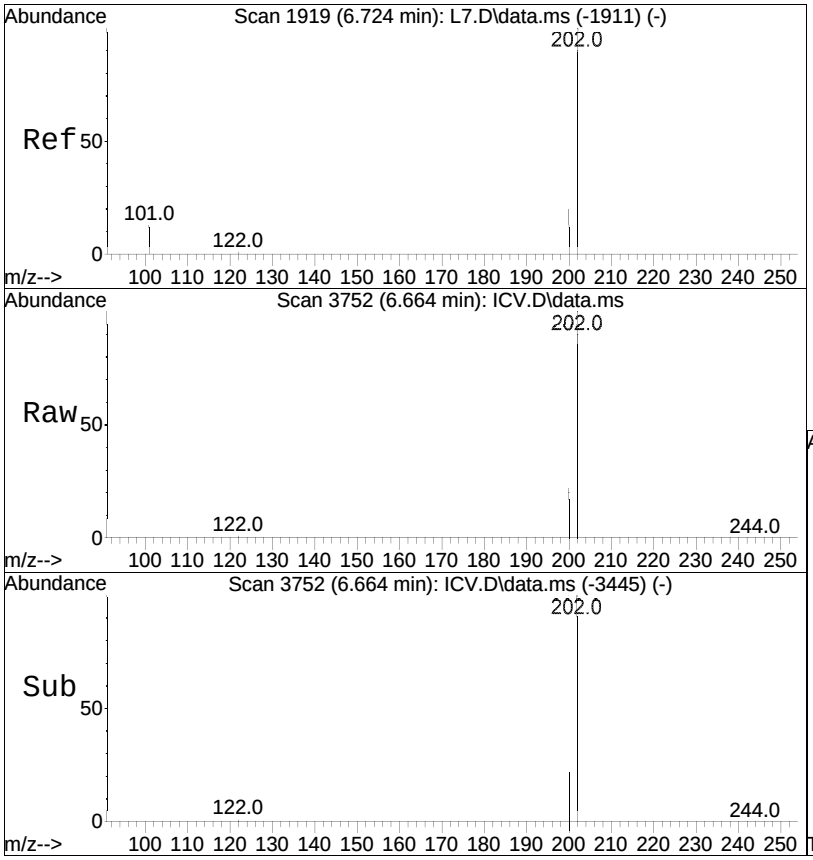


#27
Fluoranthene
Concen: 932.83 ng/ml
RT: 6.517 min Scan# 3644
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 16 Sep 2020 07:04 pm

Tgt Ion:202 Resp: 23699

Ion	Ratio	Lower	Upper
202	100		
101	9.7	8.9	13.3

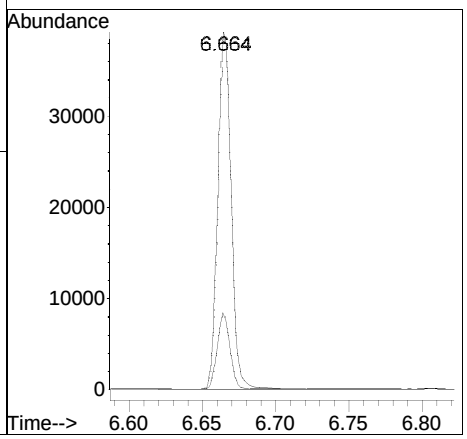


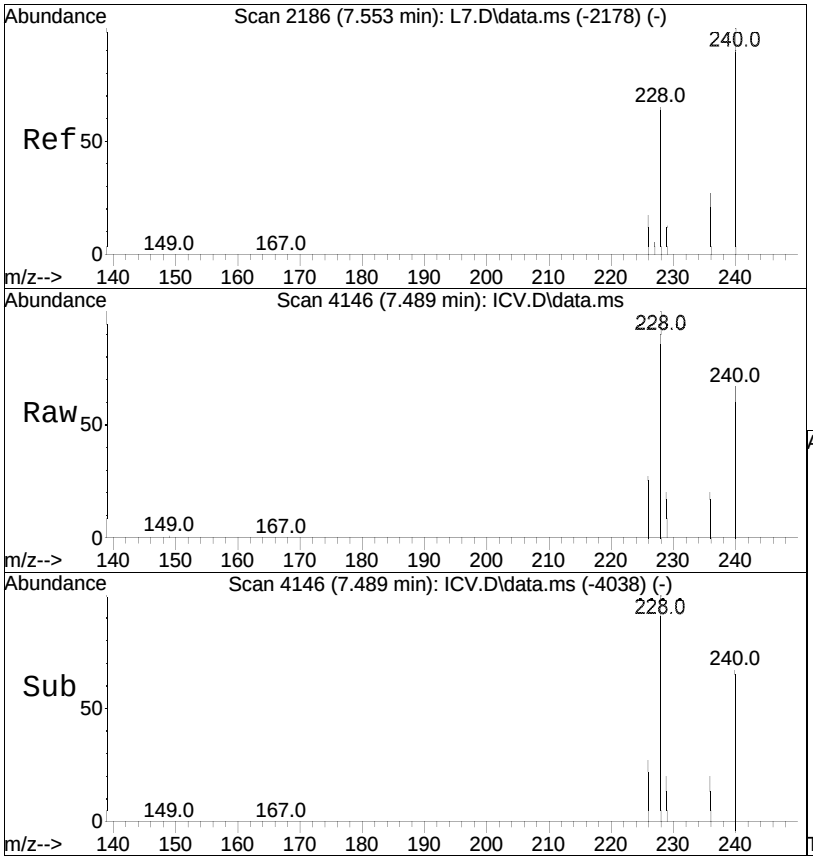


#28
Pyrene
Concen: 922.52 ng/ml
RT: 6.664 min Scan# 3752
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 16 Sep 2020 07:04 pm

Tgt Ion:202 Resp: 24262

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.6	26.4

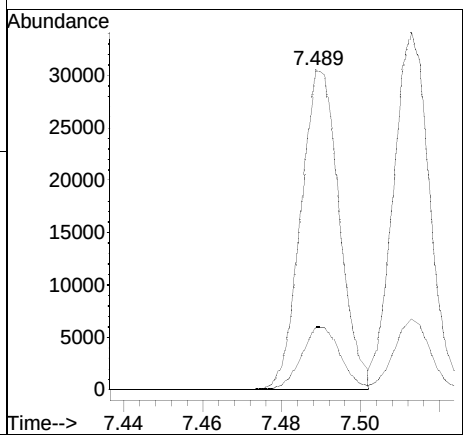


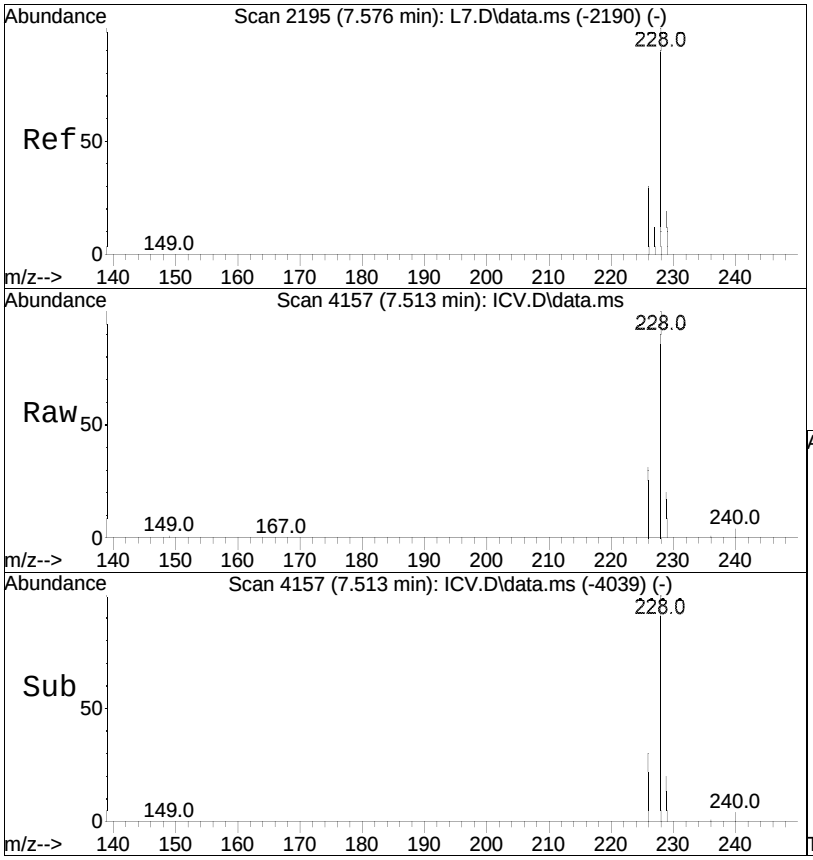


#31
Benzo[a]anthracene
Concen: 914.06 ng/ml
RT: 7.489 min Scan# 4146
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 16 Sep 2020 07:04 pm

Tgt Ion:228 Resp: 20612

Ion	Ratio	Lower	Upper
228	100		
229	19.6	24.1	36.1#

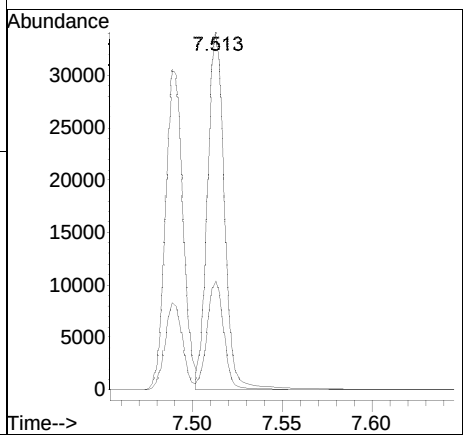


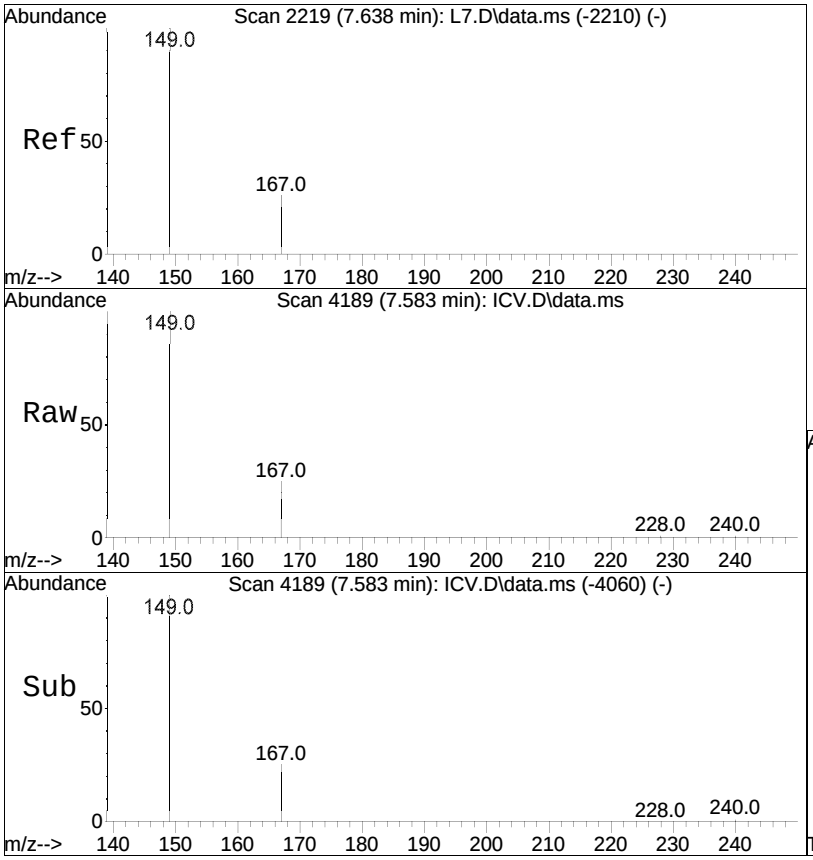


#32
Chrysene
Concen: 940.44 ug/ml
RT: 7.513 min Scan# 4157
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 16 Sep 2020 07:04 pm

Tgt Ion:228 Resp: 22245

Ion	Ratio	Lower	Upper
228	100		
226	30.1	25.4	38.0

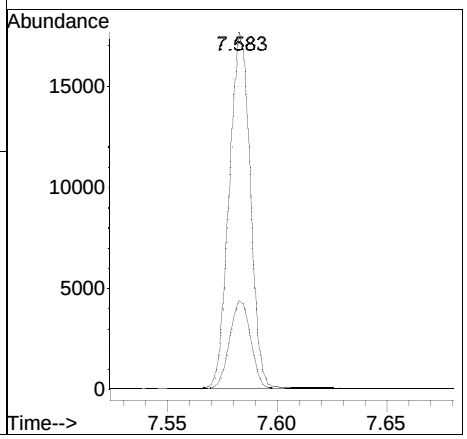


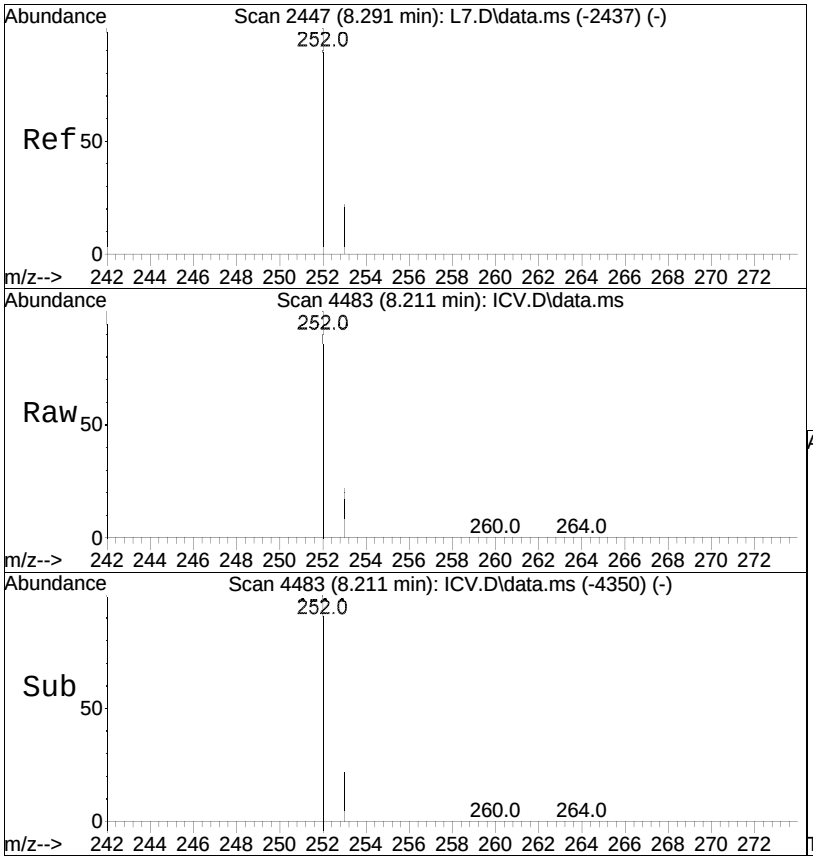


#33
Bis(2-ethylhexyl)phthalate
Concen: 904.18 ng/ml
RT: 7.583 min Scan# 4189
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 16 Sep 2020 07:04 pm

Tgt Ion:149 Resp: 11591

Ion	Ratio	Lower	Upper
149	100		
167	24.9	20.0	30.0

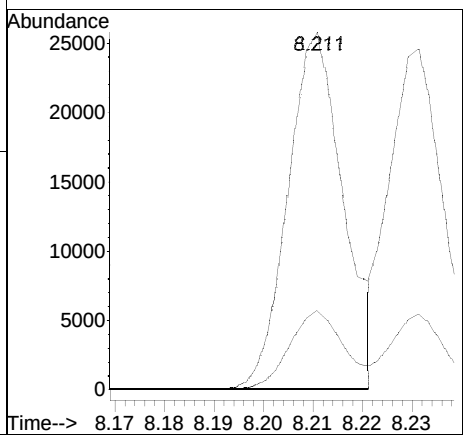


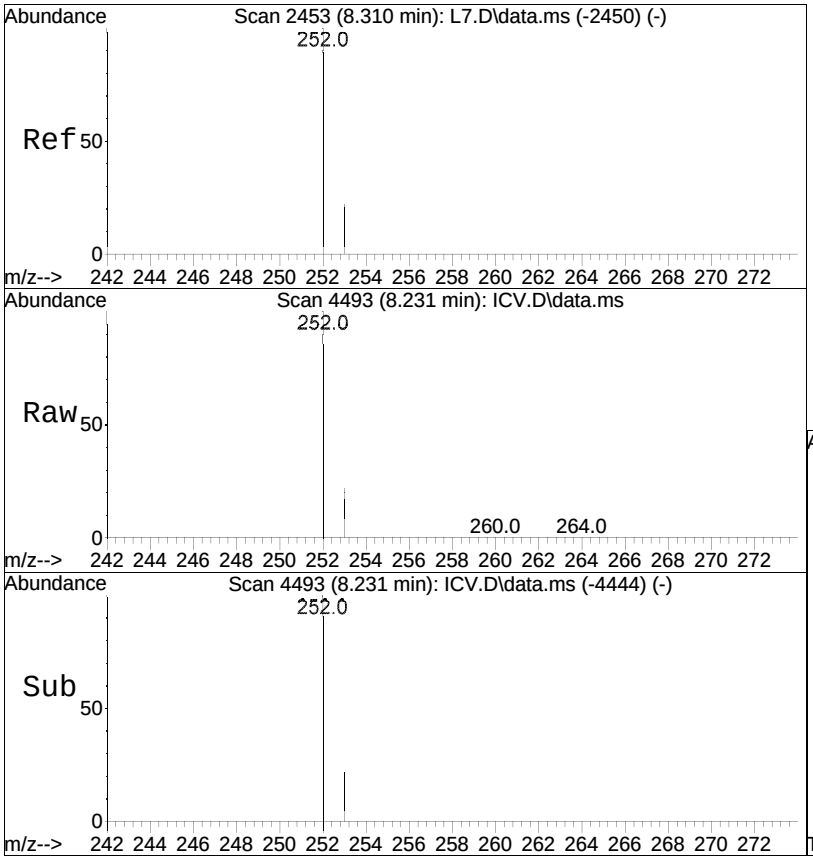


#35
Benzo[b]fluoranthene
Concen: 982.18 ng/ml
RT: 8.211 min Scan# 4483
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 16 Sep 2020 07:04 pm

Tgt Ion:252 Resp: 19988

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.5	26.3

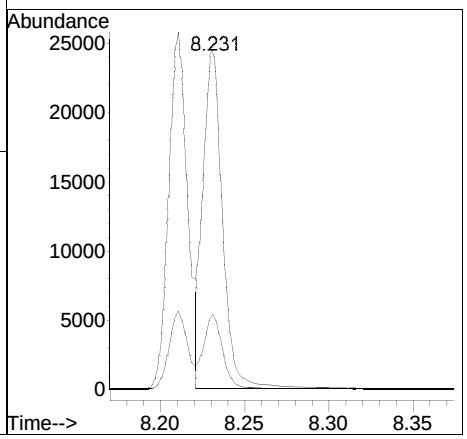


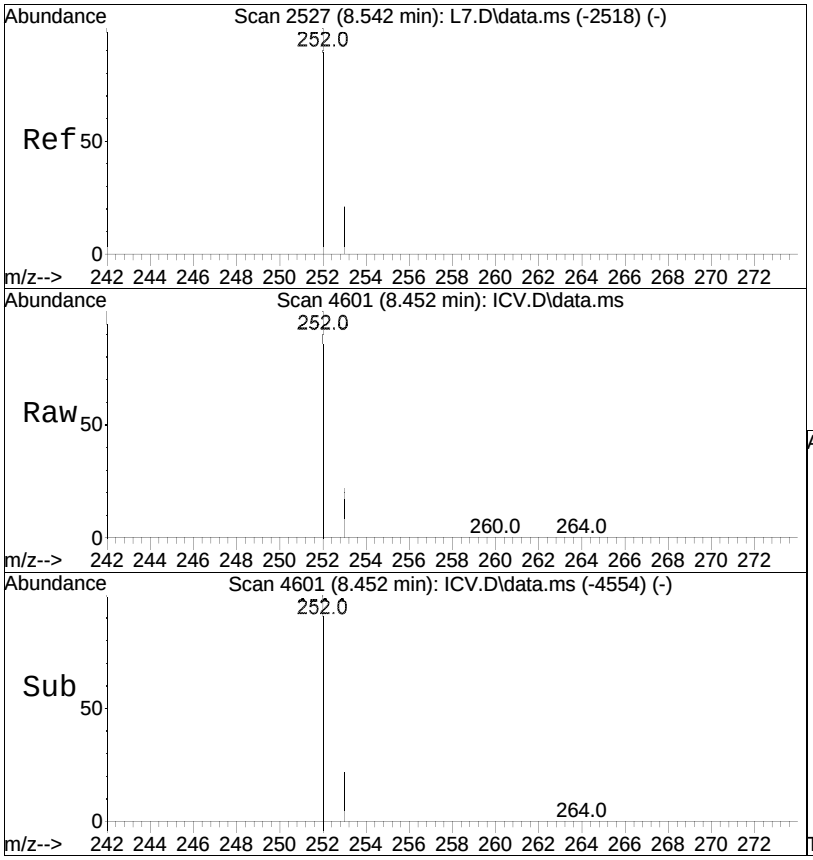


#36
Benzo[k]fluoranthene
Concen: 952.58 ng/ml
RT: 8.231 min Scan# 4493
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 16 Sep 2020 07:04 pm

Tgt Ion:252 Resp: 19620

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0

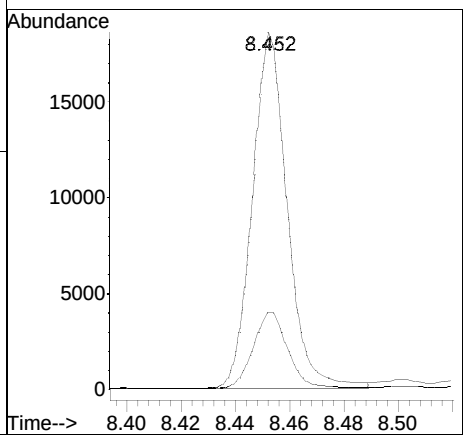


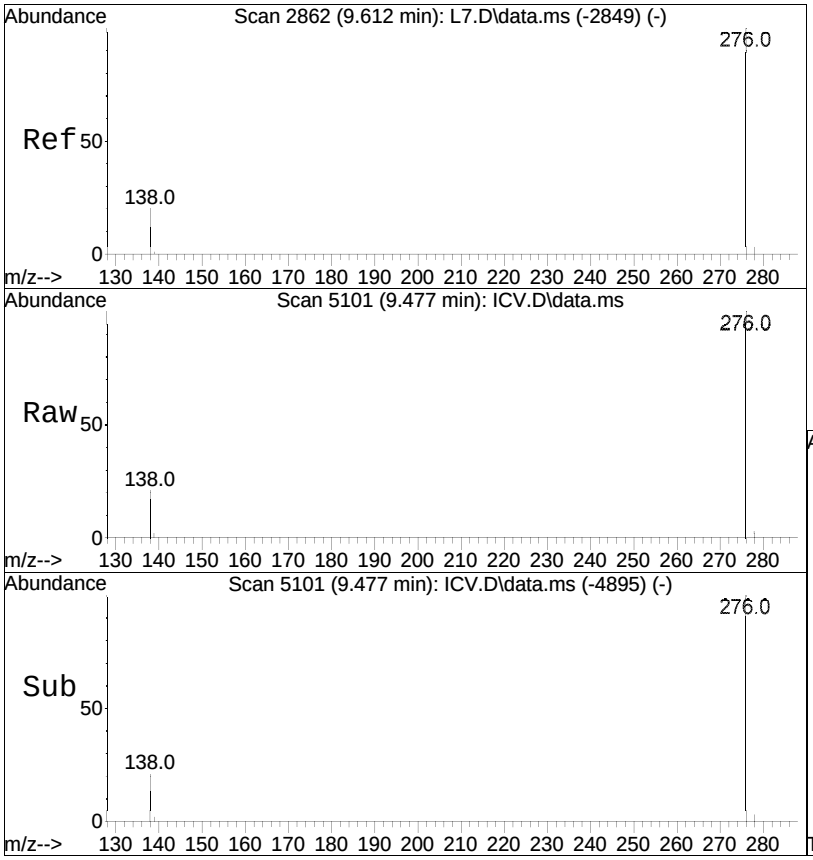


#37
Benzo[a]pyrene
Concen: 935.65 ng/ml
RT: 8.452 min Scan# 4601
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 16 Sep 2020 07:04 pm

Tgt Ion:252 Resp: 16327

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.3	25.9

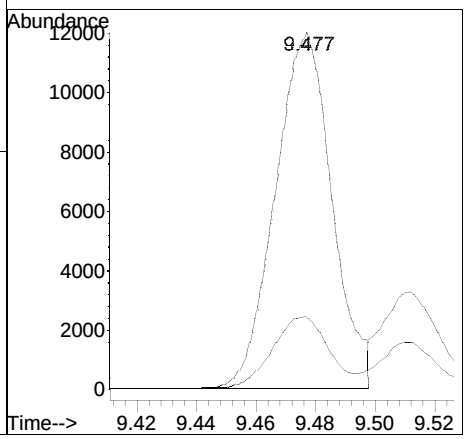


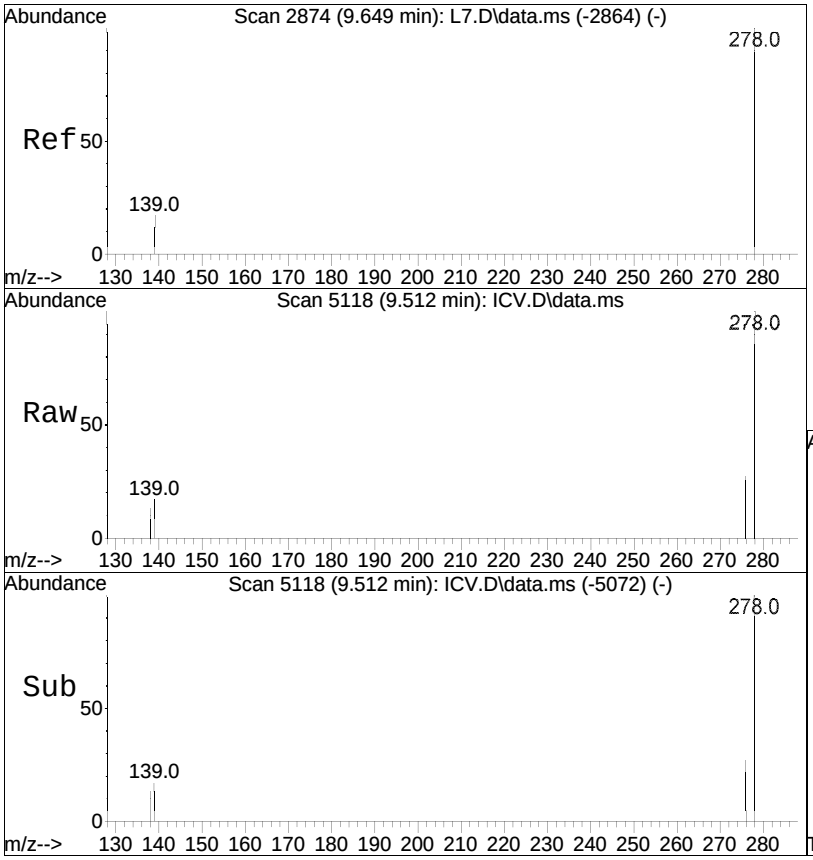


#38
Indeno[1,2,3-cd]pyrene
Concen: 958.10 ng/ml
RT: 9.477 min Scan# 5101
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 16 Sep 2020 07:04 pm

Tgt Ion:276 Resp: 15737

Ion	Ratio	Lower	Upper
276	100		
138	20.0	31.4	47.2#

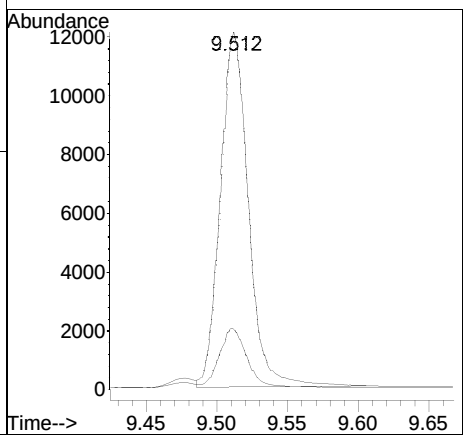


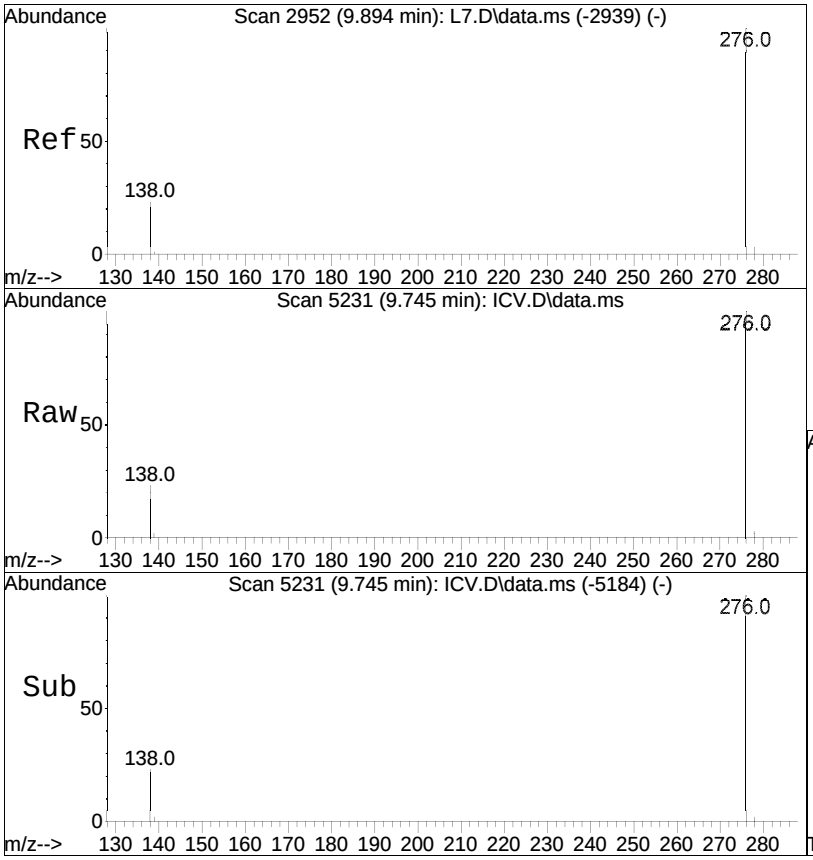


#39
Dibenzo[a,h]anthracene
Concen: 1008.58 ng/ml
RT: 9.512 min Scan# 5118
Delta R.T. -0.005 min
Lab File: ICV.D
Acq: 16 Sep 2020 07:04 pm

Tgt Ion:278 Resp: 16480

Ion	Ratio	Lower	Upper
278	100		
139	16.7	28.1	42.1#

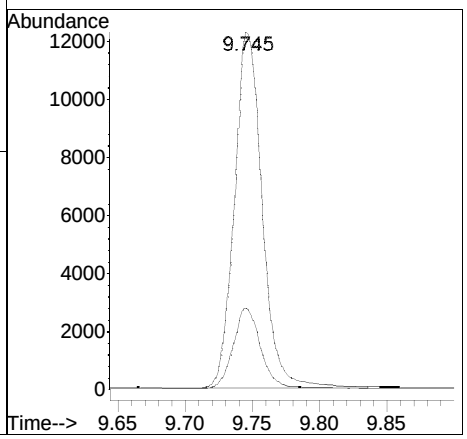




#40
Benzo[g,h,i]perylene
Concen: 941.06 ng/ml
RT: 9.745 min Scan# 5231
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 16 Sep 2020 07:04 pm

Tgt Ion:276 Resp: 17350

Ion	Ratio	Lower	Upper
276	100		
138	22.4	34.9	52.3#

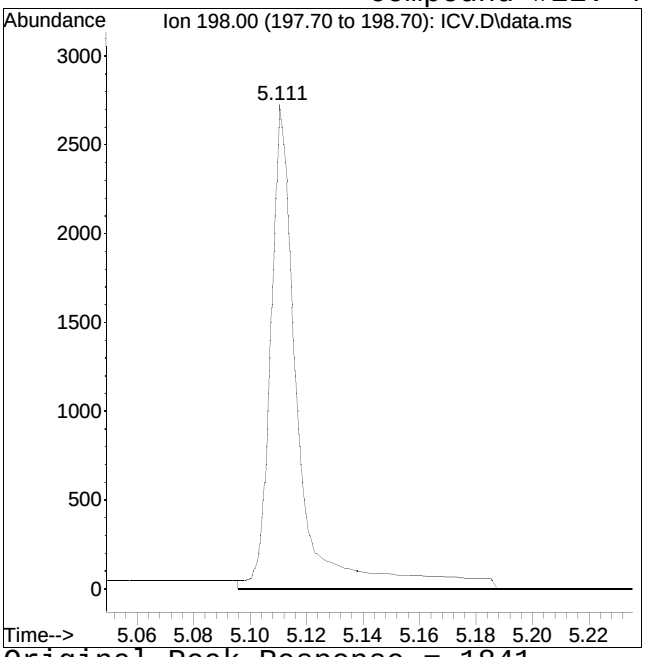


Manual Integration Report

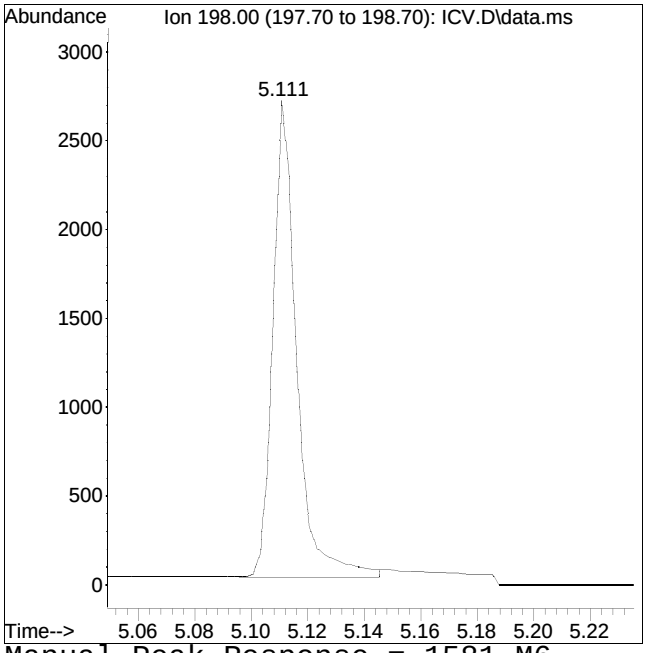
Data Path : I:\8270SIM\sv119\200916LVIQ
Data File : ICV.D
Date Inj'd : 9/16/2020 7:04 pm
Sample : CQICV,32,,1.0

Method : SIM-LVI_200916_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 9/16/2020 7:48 pm

Compound #22: 4,6-Dinitro-o-cresol



Original Peak Response = 1841



Manual Peak Response = 1581 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Response Factor Report SV125

Method Path : I:\8270SIM\SV125\200917LVIical\
Method File : SIM-LVI_200917_sv125.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Sep 18 08:01:24 2020
Response Via : Initial Calibration

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

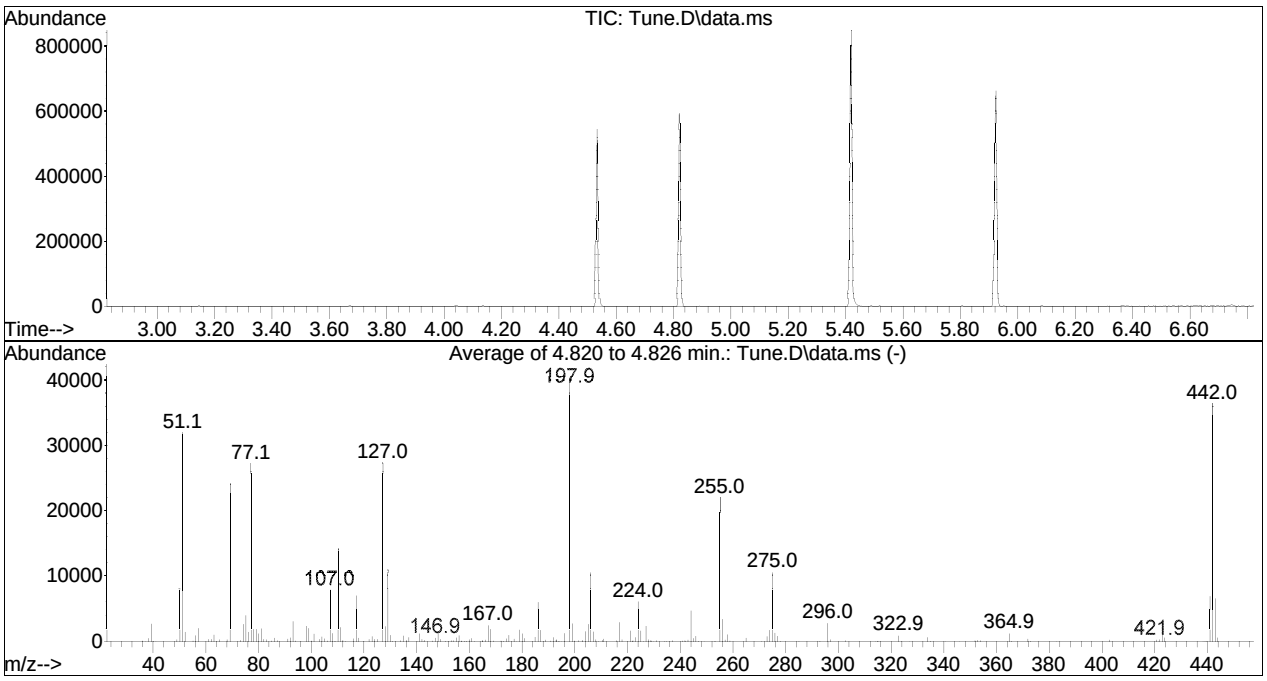
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	ISTD											
2)	T	1,4-Dioxane			0.485	0.509	0.485	0.466	0.466	0.458	0.461	0.644	0.497	12.47
3)	s	2-Fluorophenol		1.028	0.999	1.011	1.016	1.023	1.057	1.070	1.082	1.039	1.036	2.72
4)	s	Phenol-d6			1.228	1.169	1.196	1.156	1.181	1.219	1.237	1.251	1.216	1.206	2.66
5)	T	bis(2-Chloroethyl)ether			1.108	1.108	1.123	1.093	1.103	1.111	1.062	1.051	1.030	1.088	2.95
6)	T	n-Nitrosodi-n-propylamine			0.654	0.649	0.659	0.627	0.646	0.666	0.683	0.705	0.703	0.666	3.96
7)	t	Hexachloroethane			0.502	0.475	0.477	0.469	0.474	0.480	0.477	0.483	0.476	0.479	1.97
8)	s	Nitrobenzene-d5			0.933	0.916	0.915	0.869	0.898	0.926	0.956	0.986	0.968	0.930	3.90
9)	i	Naphthalene-d8	ISTD											
10)	t	Naphthalene			1.117	1.077	1.089	1.056	1.051	1.044	1.002	0.997	0.962	1.044	4.72
11)	t	Hexachlorobutadiene			0.182	0.187	0.191	0.183	0.181	0.179	0.172	0.170	0.161	0.178	5.25
12)	t	2-Methylnaphthalene			0.690	0.681	0.684	0.657	0.662	0.665	0.635	0.617	0.587	0.653	5.23
13)	t	1-Methylnaphthalene			0.639	0.626	0.635	0.617	0.613	0.613	0.579	0.570	0.550	0.605	5.15
14)	s	2-Fluorobiphenyl				0.786	0.804	0.755	0.765	0.748	0.709	0.698	0.664	0.741	6.36
15)	t	2-Chloronaphthalene			0.671	0.658	0.674	0.651	0.649	0.651	0.628	0.627	0.612	0.647	3.21
16)	t	Acenaphthylene			0.860	0.870	0.897	0.888	0.893	0.957	1.007	1.024	0.999	0.933	6.89
17)	i	Acenaphthene-d10	ISTD											
18)	t	Acenaphthene				1.525	1.472	1.453	1.411	1.406	1.320	1.331	1.276	1.399	6.05
19)	t	Fluorene				1.361	1.372	1.361	1.345	1.376	1.366	1.388	1.327	1.362	1.39
20)	s	2,4,6-Tribromophenol				0.144	0.156	0.160	0.156	0.173	0.185	0.193		0.167	10.42
21)	i	Phenanthrene-d10	ISTD											
22)	T	4,6-Dinitro-o-cresol						0.043	0.050	0.061	0.076	0.084	0.086	*Q	0.9989
23)	t	Hexachlorobenzene	0.278	0.254	0.251	0.255	0.249	0.247	0.245	0.229	0.229	0.216	0.245	7.02
24)	t	Pentachlorophenol				0.047	0.049	0.059	0.073	0.092	0.113			*Q	0.9993
25)	t	Phenanthrene			1.268	1.184	1.181	1.154	1.128	1.105	1.040	1.049	1.008	1.124	7.37
26)	t	Anthracene			1.041	0.986	1.007	1.007	1.005	1.031	1.039	1.056	1.021	1.021	2.17
27)	t	Fluoranthene			1.078	1.050	1.067	1.056	1.045	1.079	1.101	1.129	1.110	1.079	2.67
28)	t	Pyrene			1.101	1.059	1.082	1.071	1.064	1.113	1.137	1.155	1.117	1.100	3.05
29)	s	4-Terphenyl-d14				0.670	0.685	0.672	0.676	0.705	0.698	0.691	0.659	0.682	2.30
30)	i	Chrysene-d12	ISTD											
31)	t	Benzo[a]anthracene			2.229	1.536	1.351	1.224	1.149	1.134	1.151	1.219	1.196	*L	0.9996
32)	t	Chrysene			1.400	1.383	1.314	1.341	1.302	1.281	1.152	1.142	1.136	1.272	8.15
33)	T	bis(2-Ethylhexyl)phthalate			0.720	0.587	0.541	0.502	0.485	0.500	0.623	0.712	0.774	0.605	17.87
34)	i	Perylene-d12	ISTD											
35)	t	Benzo[b]fluora...			1.253	1.172	1.205	1.229	1.218	1.203	1.292	1.298	1.299	1.241	3.78
36)	t	Benzo[k]fluora...			1.052	1.101	1.095	1.074	1.073	1.184	1.142	1.172	1.112	1.112	4.11
37)	t	Benzo[a]pyrene			0.889	0.872	0.883	0.900	0.895	0.956	1.023	1.067	1.078	0.952	8.73
38)	t	Indeno[1,2,3-c...			1.030	0.981	0.981	0.981	0.948	0.979	1.044	1.125	1.167	1.026	7.26
39)	t	Dibenzo[a,h]anthracene			0.977	0.924	0.969	0.969	0.980	1.103	1.125	1.147	1.144	1.038	8.66
40)	t	Benzo[g,h,i]pe...			1.157	1.123	1.129	1.151	1.131	1.171	1.163	1.212	1.219	1.162	2.98

(#) = Out of Range

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : Tune.D
Acq On : 17 Sep 2020 02:19 pm
Operator : SV125:dv
Sample : TUNE
Misc : wg1411680,,ical
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Sep 18 08:01:24 2020



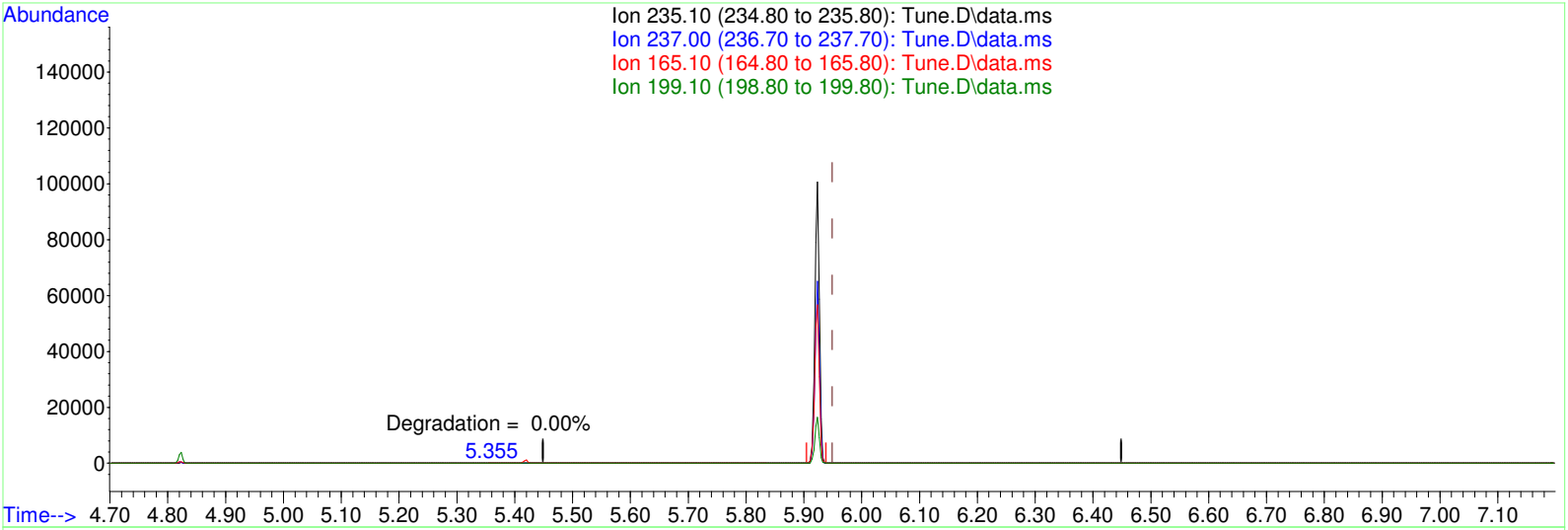
Spectrum Information: Average of 4.820 to 4.826 min.

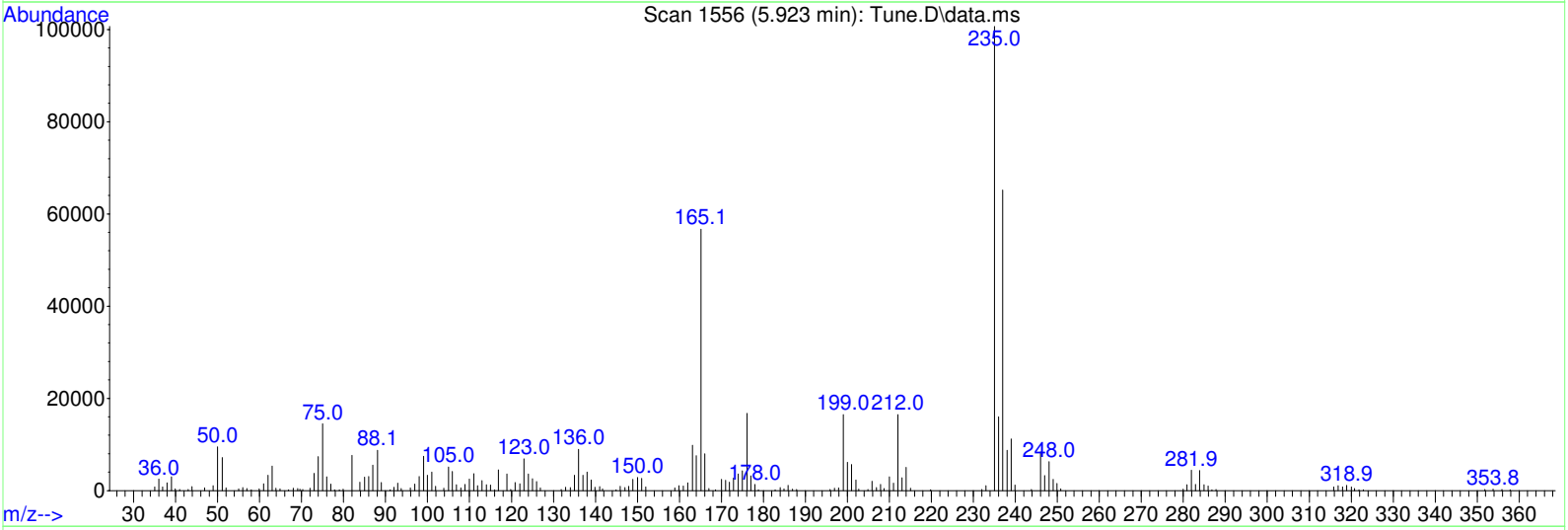
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	79.1	31923	PASS
68	69	0.00	2	1.7	410	PASS
69	69	100	100	100.0	24136	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	67.6	27299	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	40355	PASS
199	198	5	9	6.9	2776	PASS
275	198	10	60	26.1	10540	PASS
365	198	1	100	3.2	1297	PASS
441	442	0.01	24	18.7	6810	PASS
442	198	50	100	90.1	36349	PASS
443	442	15	24	17.8	6472	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : Tune.D
Acq On : 17 Sep 2020 02:19 pm
Operator : SV125:dv
Sample : TUNE
Misc : wg1411680,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 17 14:52:12 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\dftppsv125.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 19 10:17:04 2020
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: Tune.D\data.ms

(6) ddt (T)

5.923min (-0.026) 8.98 Lin

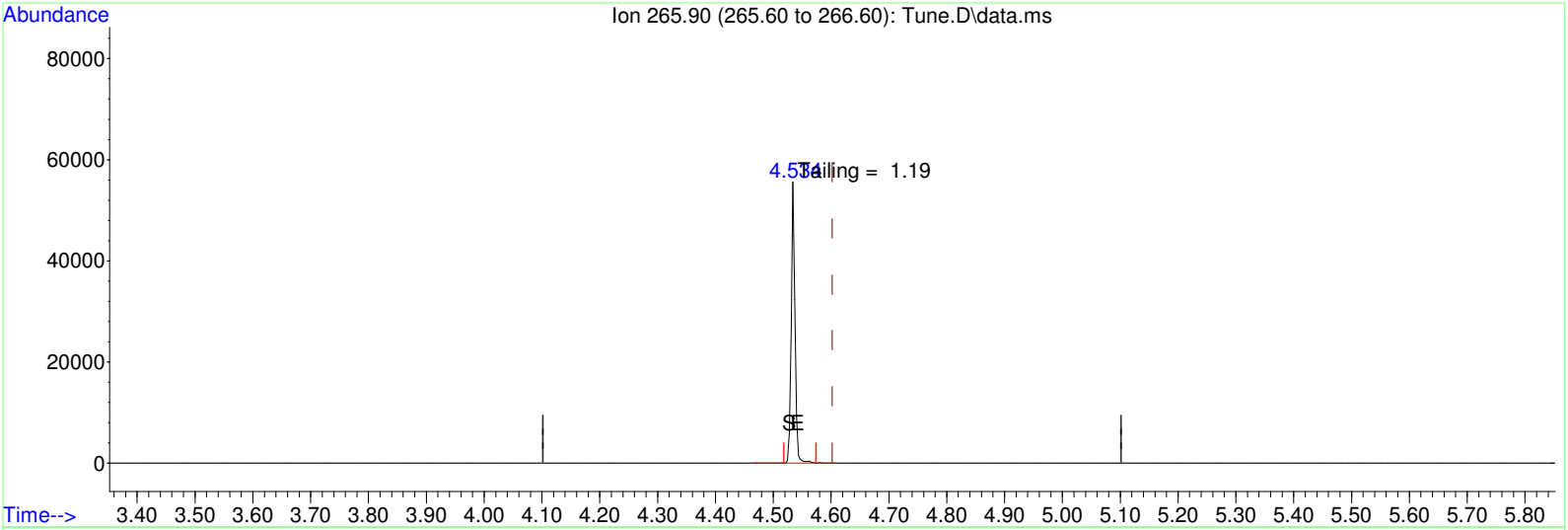
response 54722

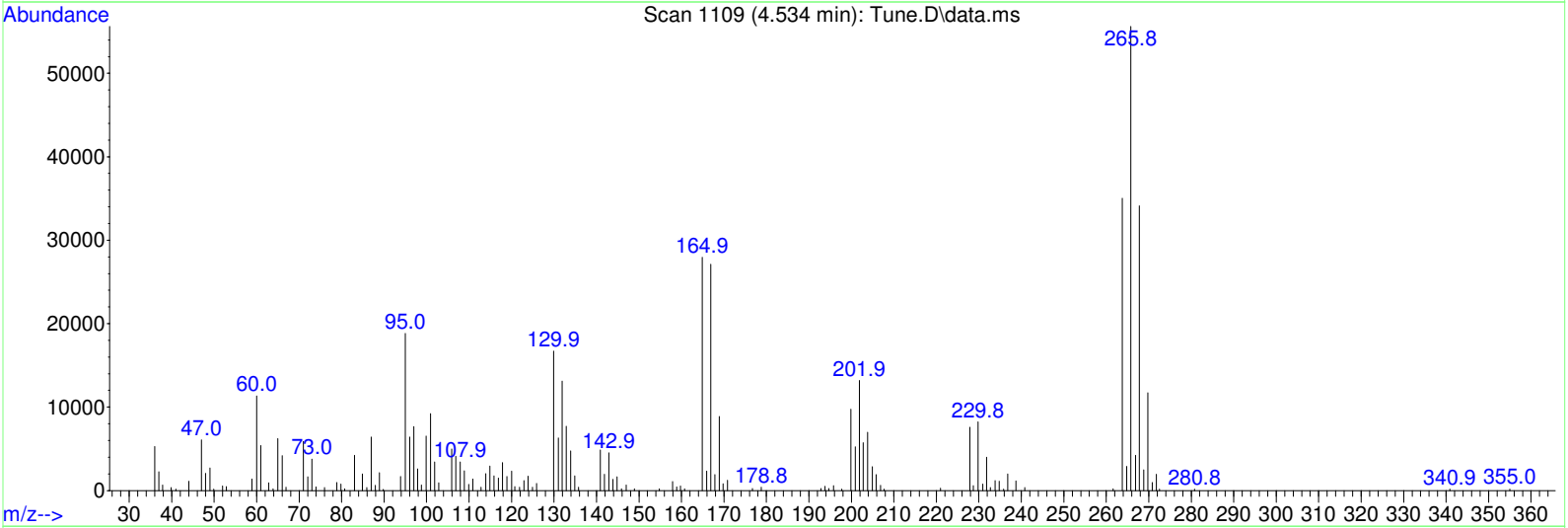
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	63.49
165.10	53.30	57.29
199.10	17.10	16.17

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : Tune.D
Acq On : 17 Sep 2020 02:19 pm
Operator : SV125:
Sample : tune
Misc :
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 17 14:52:12 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\dftppsv125.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 19 10:17:04 2020
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: Tune.D\data.ms

(1) pentachlorophenol (T)

4.534min (-0.068) 11.96 Lin

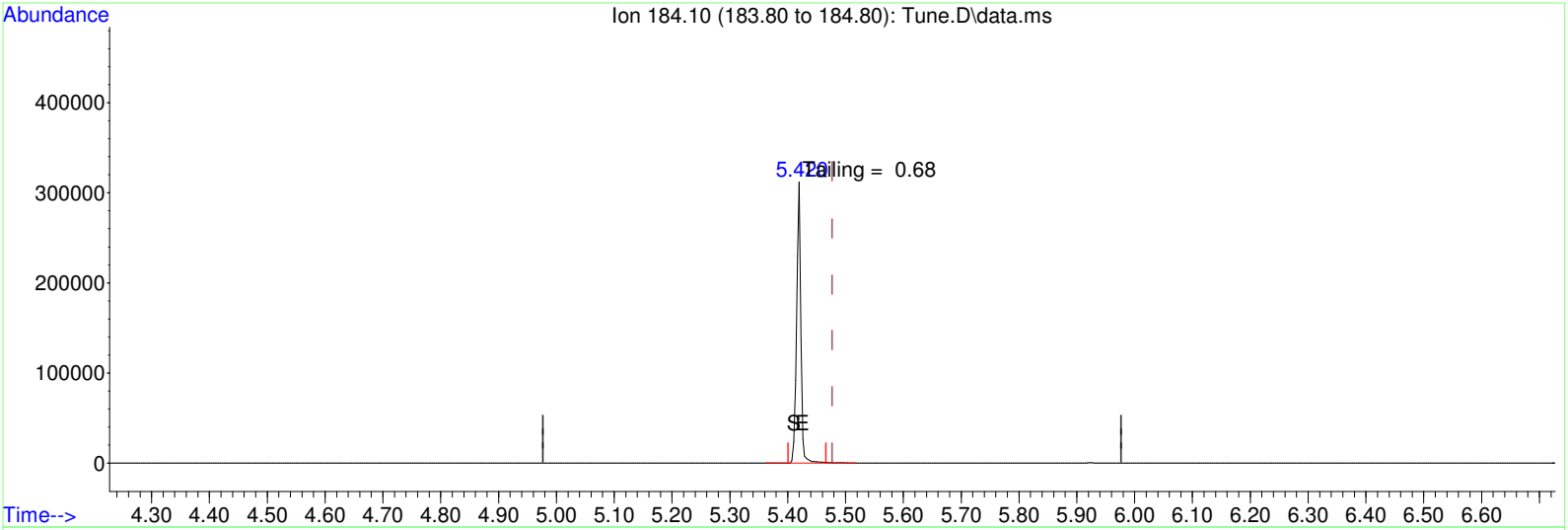
response 25130

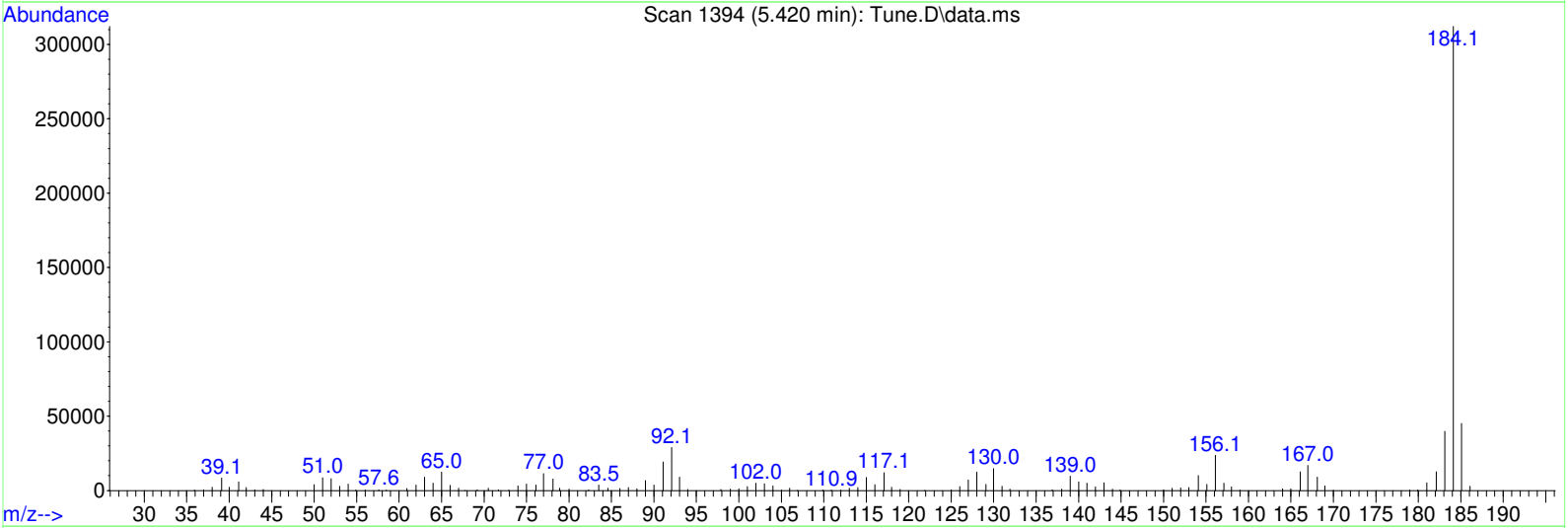
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : Tune.D
Acq On : 17 Sep 2020 02:19 pm
Operator : SV125:
Sample : tune
Misc :
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 17 14:52:12 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\dftppsv125.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Jun 19 10:17:04 2020
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: Tune.D\data.ms

(3) benzidine (T)

5.420min (-0.057) 15.68 Lin

response 159578

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : IL10.D
Acq On : 17 Sep 2020 02:51 pm
Operator : SV125:dv
Sample : IL10,32,,20.0
Misc : wg1411680,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 18 11:11:15 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:11:14 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\200917LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.014	152	44903	4000.000	ng/ml	# 0.00
Standard Area 1 = 49673			Recovery = 90.40%			
9) Naphthalene-d8	3.849	136	164579	4000.000	ng/ml	# 0.00
Standard Area 1 = 176534			Recovery = 93.23%			
17) Acenaphthene-d10	5.050	164	82291	4000.000	ng/ml	0.00
Standard Area 1 = 85067			Recovery = 96.74%			
21) Phenanthrene-d10	6.066	188	159661	4000.000	ng/ml	# 0.00
Standard Area 1 = 164154			Recovery = 97.26%			
30) Chrysene-d12	7.890	240	143803	4000.000	ng/ml	# 0.01
Standard Area 1 = 139210			Recovery = 103.30%			
34) Perylene-d12	9.086	264	145060	4000.000	ng/ml	0.01
Standard Area 1 = 138155			Recovery = 105.00%			
System Monitoring Compounds						
3) 2-Fluorophenol	2.223	112	233290	20057.400	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 401148.00%#			
4) Phenol-d6	2.796	99	272906	20158.966	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 403179.32%#			
8) Nitrobenzene-d5	3.374	82	217288	20822.568	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 832902.72%#			
14) 2-Fluorobiphenyl	4.594	172	546787	17926.311	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 717052.44%#			
20) 2,4,6-Tribromophenol	5.593	330	77952	22720.757	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 454415.14%#			
29) 4-Terphenyl-d14	7.180	244	525803	19314.374	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 772574.96%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.301	88	144675	25942.748	ng/ml#	100
5) Bis(2-chloroethyl)ether	2.856	93	231282	18941.433	ng/ml#	83
6) n-nitrosodi-n-propylamine	3.286	70	157752	21110.799	ng/ml	96
7) Hexachloroethane	3.341	117	106823	19857.505	ng/ml	92
10) Naphthalene	3.862	128	791551	18427.571	ng/ml#	82

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : IL10.D
Acq On : 17 Sep 2020 02:51 pm
Operator : SV125:dv
Sample : IL10,32,,20.0
Misc : wg1411680,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 18 11:11:15 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:11:14 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\200917LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
11) Hexachlorobutadiene	3.959	225	132117	17993.430	ng/ml	100
12) 2-Methylnaphthalene	4.335	142	482650	17964.670	ng/ml	99
13) 1-Methylnaphthalene	4.402	142	452709	18193.236	ng/ml	99
15) 2-Chloronaphthalene	4.666	162	503656	18924.083	ng/ml	98
16) Acenaphthylene	4.950	152	822127	21423.784	ng/ml	99
18) Acenaphthene	5.069	153	525050	18240.266	ng/ml	99
19) Fluorene	5.427	166	545936	19484.322	ng/ml	100
22) 4,6-Dinitro-o-cresol	5.470	198	68577	19866.836	ng/ml	91
23) Hexachlorobenzene	5.809	284	172417	17612.497	ng/ml	100
24) Pentachlorophenol	5.945	266	99652	14778.215	ng/ml	99
25) Phenanthrene	6.084	178	805001	17940.359	ng/ml	100
26) Anthracene	6.116	178	814742	19983.847	ng/ml	99
27) Fluoranthene	6.899	202	886423	20573.023	ng/ml	99
28) Pyrene	7.055	202	891863	20313.784	ng/ml	99
31) Benzo[a]anthracene	7.882	228	859807	20044.591	ng/ml#	81
32) Chrysene	7.908	228	816790	17857.764	ug/ml	98
33) Bis(2-ethylhexyl)phtha...	7.941	149	556178	25567.761	ng/ml	99
35) Benzo[b]fluoranthene	8.731	252	942359	20940.739	ng/ml	100
36) Benzo[k]fluoranthene	8.756	252	806227	19999.886	ng/ml	99
37) Benzo[a]pyrene	9.033	252	781657	22651.945	ng/ml	100
38) Indeno[1,2,3-cd]pyrene	10.291	276	846224	22738.930	ng/ml#	70
39) Dibenzo[a,h]anthracene	10.329	278	829869	22055.503	ng/ml#	70
40) Benzo[g,h,i]perylene	10.624	276	884257	20987.005	ng/ml#	68

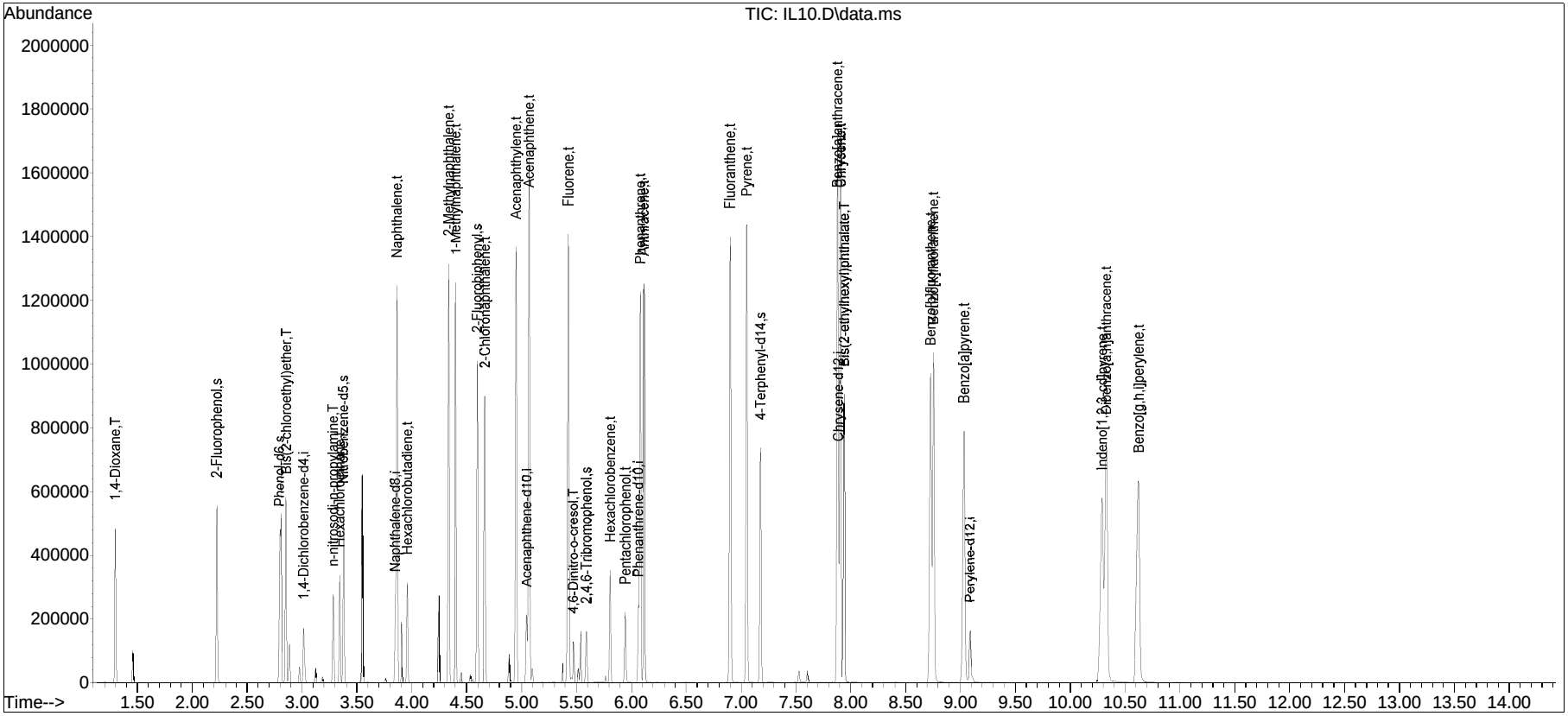
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : IL10.D
Acq On : 17 Sep 2020 02:51 pm
Operator : SV125:dv
Sample : IL10,32,,20.0
Misc : wg1411680,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 18 11:11:15 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:11:14 2020
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL7.D•



Manual Integration Report

Data Path	: I:\8270SIM\SV125\200917LVIQ	Method	: SIM-LVI_200917_sv125.M
Data File	: IL10.D	Operator	: SV125:dv
Date Inj'd	: 9/17/2020 2:51 pm	Instrument	: SV125
Sample	: IL10,32,,20.0	Quant Date	: 9/18/2020 11:11 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : IL9.D
Acq On : 17 Sep 2020 03:10 pm
Operator : SV125:dv
Sample : IL9,32,,10.0
Misc : wg1411680,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 18 11:11:56 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:11:54 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\200917LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.020	152	47941	4000.000	ng/ml	# 0.00
Standard Area 1 = 49673			Recovery = 96.51%			
9) Naphthalene-d8	3.850	136	174422	4000.000	ng/ml	# 0.00
Standard Area 1 = 176534			Recovery = 98.80%			
17) Acenaphthene-d10	5.045	164	86483	4000.000	ng/ml	0.00
Standard Area 1 = 85067			Recovery = 101.66%			
21) Phenanthrene-d10	6.061	188	168660	4000.000	ng/ml	# 0.00
Standard Area 1 = 164154			Recovery = 102.74%			
30) Chrysene-d12	7.882	240	153943	4000.000	ng/ml	# 0.00
Standard Area 1 = 139210			Recovery = 110.58%			
34) Perylene-d12	9.075	264	154403	4000.000	ng/ml	0.00
Standard Area 1 = 138155			Recovery = 111.76%			
System Monitoring Compounds						
3) 2-Fluorophenol	2.228	112	129694	10443.995	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 208879.90%#			
4) Phenol-d6	2.801	99	149965	10375.603	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 207512.06%#			
8) Nitrobenzene-d5	3.375	82	118192	10608.523	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 424340.92%#			
14) 2-Fluorobiphenyl	4.593	172	304567	9421.689	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 376867.56%#			
20) 2,4,6-Tribromophenol	5.588	330	41645	11549.947	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 230998.94%#			
29) 4-Terphenyl-d14	7.174	244	291534	10137.562	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 405502.48%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.313	88	55261	9281.315	ng/ml#	100
5) Bis(2-chloroethyl)ether	2.857	93	125952	9661.495	ng/ml#	83
6) n-nitrosodi-n-propylamine	3.287	70	84475	10588.301	ng/ml	96
7) Hexachloroethane	3.345	117	57877	10077.068	ng/ml	95
10) Naphthalene	3.863	128	434928	9553.879	ng/ml#	82
11) Hexachlorobutadiene	3.960	225	74148	9528.573	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : IL9.D
Acq On : 17 Sep 2020 03:10 pm
Operator : SV125:dv
Sample : IL9,32,,10.0
Misc : wg1411680,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 18 11:11:56 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:11:54 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\200917LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
12) 2-Methylnaphthalene	4.336	142	269025	9448.280 ng/ml	100
13) 1-Methylnaphthalene	4.400	142	248442	9420.826 ng/ml	100
15) 2-Chloronaphthalene	4.662	162	273428	9693.865 ng/ml	98
16) Acenaphthylene	4.945	152	446522	10979.265 ng/ml	99
18) Acenaphthene	5.068	153	287801	9513.589 ng/ml	99
19) Fluorene	5.422	166	300182	10194.121 ng/ml	100
22) 4,6-Dinitro-o-cresol	5.465	198	35376	10353.462 ng/ml	96
23) Hexachlorobenzene	5.804	284	96430	9324.805 ng/ml	98
24) Pentachlorophenol	5.940	266	51499	8986.956 ng/ml	99
25) Phenanthrene	6.079	178	442188	9328.856 ng/ml	100
26) Anthracene	6.112	178	445365	10340.983 ng/ml	100
27) Fluoranthene	6.897	202	475948	10456.909 ng/ml	99
28) Pyrene	7.049	202	487085	10502.294 ng/ml	99
31) Benzo[a]anthracene	7.876	228	469040	10211.021 ng/ml#	81
32) Chrysene	7.900	228	439458	8975.157 ug/ml	97
33) Bis(2-ethylhexyl)phtha...	7.933	149	273894	11761.681 ng/ml	99
35) Benzo[b]fluoranthene	8.720	252	501162	10462.746 ng/ml	100
36) Benzo[k]fluoranthene	8.745	252	452419	10543.941 ng/ml	99
37) Benzo[a]pyrene	9.021	252	412057	11218.596 ng/ml	100
38) Indeno[1,2,3-cd]pyrene	10.270	276	434307	10964.112 ng/ml#	69
39) Dibenzo[a,h]anthracene	10.308	278	442832	11057.027 ng/ml#	69
40) Benzo[g,h,i]perylene	10.600	276	467747	10429.774 ng/ml#	67

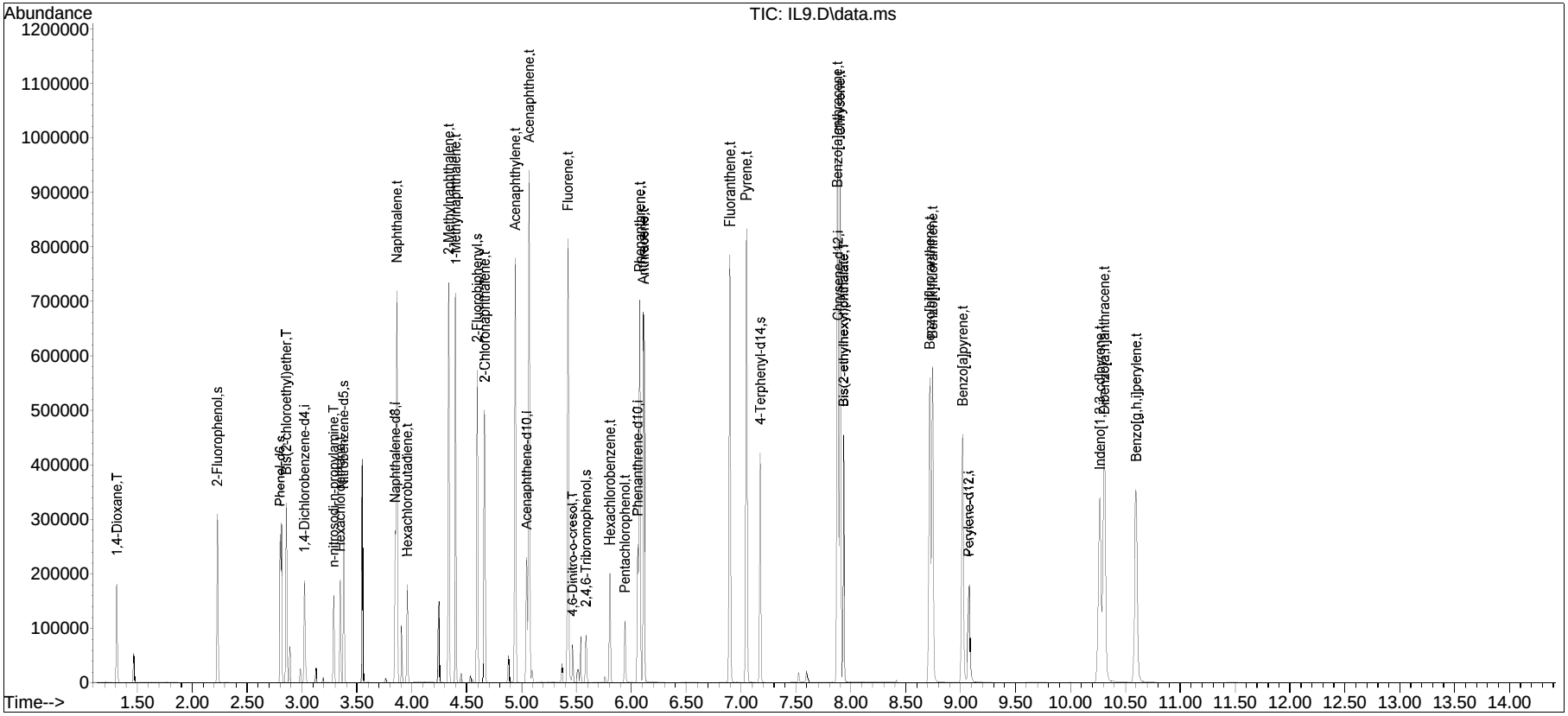
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : IL9.D
Acq On : 17 Sep 2020 03:10 pm
Operator : SV125:dv
Sample : IL9,32,,10.0
Misc : wg1411680,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 18 11:11:56 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:11:54 2020
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL7.D•



Manual Integration Report

Data Path	: I:\8270SIM\SV125\200917LVIQ	Method	: SIM-LVI_200917_sv125.M
Data File	: IL9.D	Operator	: SV125:dv
Date Inj'd	: 9/17/2020 3:10 pm	Instrument	: SV125
Sample	: IL9,32,,10.0	Quant Date	: 9/18/2020 11:11 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : IL8.D
Acq On : 17 Sep 2020 03:28 pm
Operator : SV125:dv
Sample : IL8,32,,5.0
Misc : wg1411680,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 18 11:11:51 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:11:49 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\200917LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.022	152	49674	4000.000	ng/ml	0.00
Standard Area 1 = 49673			Recovery = 100.00%			
9) Naphthalene-d8	3.851	136	178883	4000.000	ng/ml	# 0.00
Standard Area 1 = 176534			Recovery = 101.33%			
17) Acenaphthene-d10	5.047	164	89503	4000.000	ng/ml	0.00
Standard Area 1 = 85067			Recovery = 105.21%			
21) Phenanthrene-d10	6.061	188	173891	4000.000	ng/ml	# 0.00
Standard Area 1 = 164154			Recovery = 105.93%			
30) Chrysene-d12	7.880	240	157773	4000.000	ng/ml	# 0.00
Standard Area 1 = 139210			Recovery = 113.33%			
34) Perylene-d12	9.075	264	156003	4000.000	ng/ml	0.00
Standard Area 1 = 138155			Recovery = 112.92%			
System Monitoring Compounds						
3) 2-Fluorophenol	2.231	112	66430	5162.844	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 103256.88%#			
4) Phenol-d6	2.799	99	76839	5130.776	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 102615.52%#			
8) Nitrobenzene-d5	3.377	82	59367	5142.684	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 205707.36%#			
14) 2-Fluorobiphenyl	4.592	172	158487	4780.483	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 191219.32%#			
20) 2,4,6-Tribromophenol	5.587	330	20680	5541.927	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 110838.54%#			
29) 4-Terphenyl-d14	7.174	244	151755	5118.260	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 204730.40%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.316	88	28433	4608.838	ng/ml#	100
5) Bis(2-chloroethyl)ether	2.859	93	65923	4880.386	ng/ml	84
6) n-nitrosodi-n-propylamine	3.288	70	42416	5131.044	ng/ml	96
7) Hexachloroethane	3.347	117	29612	4975.925	ng/ml	95
10) Naphthalene	3.862	128	223946	4796.648	ng/ml#	82
11) Hexachlorobutadiene	3.962	225	38524	4827.163	ng/ml	100
12) 2-Methylnaphthalene	4.335	142	142075	4865.304	ng/ml	100
13) 1-Methylnaphthalene	4.402	142	129455	4786.466	ng/ml	100
15) 2-Chloronaphthalene	4.664	162	140493	4856.695	ng/ml	98
16) Acenaphthylene	4.944	152	225268	5400.850	ng/ml	99
18) Acenaphthene	5.067	153	147731	4718.640	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : IL8.D
Acq On : 17 Sep 2020 03:28 pm
Operator : SV125:dv
Sample : IL8,32,,5.0
Misc : wg1411680,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 18 11:11:51 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:11:49 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\200917LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) Fluorene	5.421	166	152822	5014.691	ng/ml	100
22) 4,6-Dinitro-o-cresol	5.464	198	16548	4909.772	ng/ml	95
23) Hexachlorobenzene	5.804	284	49807	4671.464	ng/ml	98
24) Pentachlorophenol	5.940	266	24556	4996.335	ng/ml	99
25) Phenanthrene	6.076	178	226075	4626.036	ng/ml	99
26) Anthracene	6.111	178	225795	5085.048	ng/ml	100
27) Fluoranthene	6.893	202	239399	5101.538	ng/ml	100
28) Pyrene	7.049	202	247057	5166.680	ng/ml	98
31) Benzo[a]anthracene	7.874	228	227050	4819.230	ng/ml#	81
32) Chrysene	7.897	228	227169	4526.901	ug/ml	98
33) Bis(2-ethylhexyl)phtha...	7.933	149	122959	5151.984	ng/ml	99
35) Benzo[b]fluoranthene	8.717	252	251868	5204.312	ng/ml	99
36) Benzo[k]fluoranthene	8.739	252	222713	5137.247	ng/ml	100
37) Benzo[a]pyrene	9.015	252	199559	5377.437	ng/ml	100
38) Indeno[1,2,3-cd]pyrene	10.261	276	203595	5087.056	ng/ml#	69
39) Dibenzo[a,h]anthracene	10.298	278	219328	5420.211	ng/ml#	69
40) Benzo[g,h,i]perylene	10.591	276	226832	5006.002	ng/ml#	67

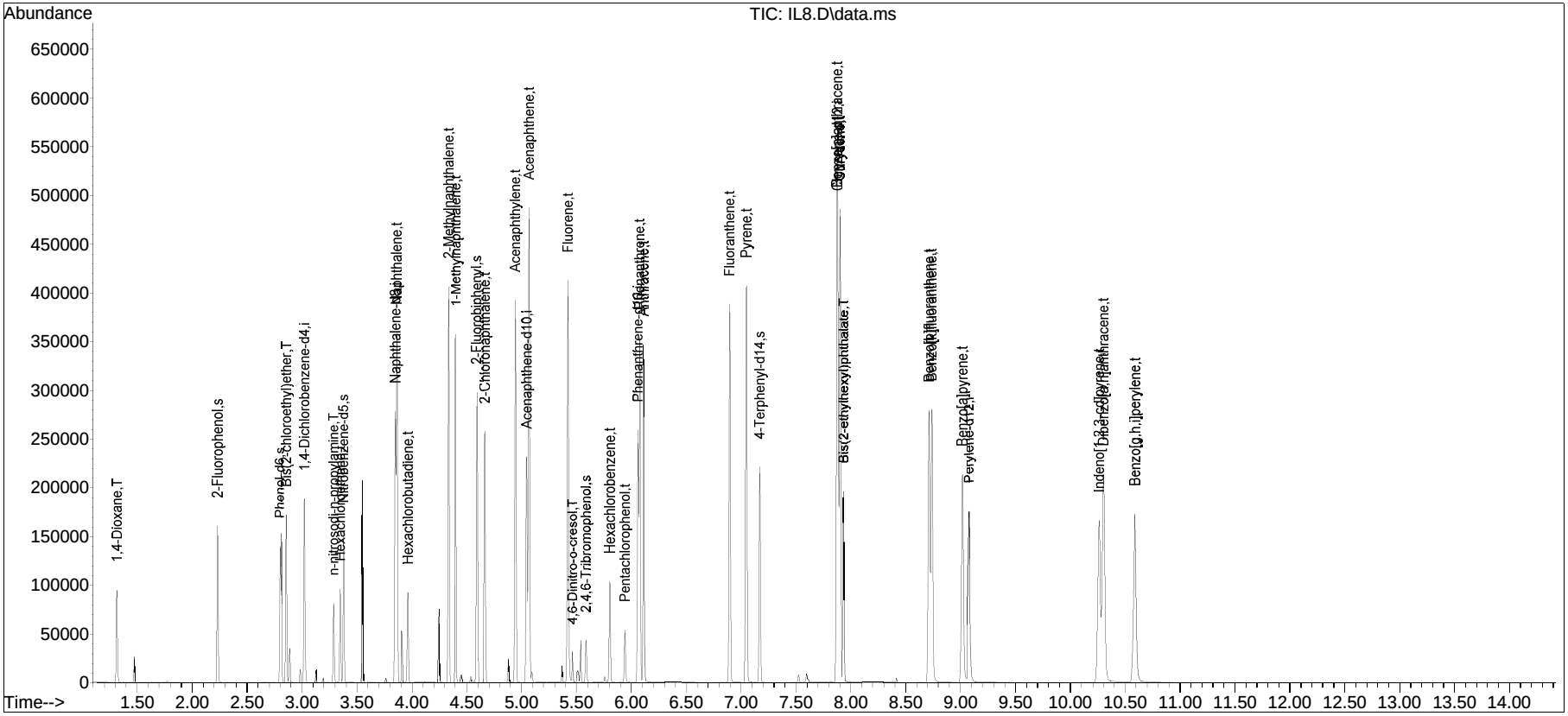
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : IL8.D
Acq On : 17 Sep 2020 03:28 pm
Operator : SV125:dv
Sample : IL8,32,,5.0
Misc : wg1411680,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 18 11:11:51 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:11:49 2020
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL7.D•



Manual Integration Report

Data Path	: I:\8270SIM\SV125\200917LVIQ	Method	: SIM-LVI_200917_sv125.M
Data File	: IL8.D	Operator	: SV125:dv
Date Inj'd	: 9/17/2020 3:28 pm	Instrument	: SV125
Sample	: IL8,32,,5.0	Quant Date	: 9/18/2020 11:11 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : IL7.D
Acq On : 17 Sep 2020 03:47 pm
Operator : SV125:dv
Sample : IL7,32,,1.0
Misc : wg1411680,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 18 11:11:45 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:11:44 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\200917LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.020	152	49673	4000.000	ng/ml	0.00
Standard Area 1 = 49673			Recovery = 100.00%			
9) Naphthalene-d8	3.849	136	176534	4000.000	ng/ml	# 0.00
Standard Area 1 = 176534			Recovery = 100.00%			
17) Acenaphthene-d10	5.045	164	85067	4000.000	ng/ml	0.00
Standard Area 1 = 85067			Recovery = 100.00%			
21) Phenanthrene-d10	6.061	188	164154	4000.000	ng/ml	# 0.00
Standard Area 1 = 164154			Recovery = 100.00%			
30) Chrysene-d12	7.877	240	139210	4000.000	ng/ml	# 0.00
Standard Area 1 = 139210			Recovery = 100.00%			
34) Perylene-d12	9.072	264	138155	4000.000	ng/ml	0.00
Standard Area 1 = 138155			Recovery = 100.00%			
System Monitoring Compounds						
3) 2-Fluorophenol	2.231	112	13125	1020.077	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 20401.54%#			
4) Phenol-d6	2.800	99	15132	1010.431	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 20208.62%#			
8) Nitrobenzene-d5	3.378	82	11501	996.298	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 39851.92%#			
14) 2-Fluorobiphenyl	4.592	172	33029	1009.518	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 40380.72%#			
20) 2,4,6-Tribromophenol	5.585	330	3685	1039.021	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 20780.42%#			
29) 4-Terphenyl-d14	7.174	244	28937	1033.852	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 41354.08%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.319	88	5784	937.574	ng/ml#	100
5) Bis(2-chloroethyl)ether	2.860	93	13797	1021.435	ng/ml	83
6) n-nitrosodi-n-propylamine	3.286	70	8270	1000.438	ng/ml	95
7) Hexachloroethane	3.347	117	5959	1001.355	ng/ml	94
10) Naphthalene	3.863	128	46066	999.806	ng/ml#	82
11) Hexachlorobutadiene	3.960	225	7902	1003.317	ng/ml	100
12) 2-Methylnaphthalene	4.333	142	29336	1017.967	ng/ml	100
13) 1-Methylnaphthalene	4.400	142	27052	1013.529	ng/ml	99
15) 2-Chloronaphthalene	4.662	162	28729	1006.346	ng/ml	98
16) Acenaphthylene	4.945	152	42229	1025.921	ng/ml	99
18) Acenaphthene	5.065	153	29893	1004.595	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : IL7.D
Acq On : 17 Sep 2020 03:47 pm
Operator : SV125:dv
Sample : IL7,32,,1.0
Misc : wg1411680,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 18 11:11:45 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:11:44 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\200917LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) Fluorene	5.418	166	29263	1010.308	ng/ml	99
22) 4,6-Dinitro-o-cresol	5.462	198	2510	865.034	ng/ml	94
23) Hexachlorobenzene	5.801	284	10064	999.905	ng/ml	98
24) Pentachlorophenol	5.940	266	3786	1032.583	ng/ml	99
25) Phenanthrene	6.076	178	45334	982.666	ng/ml	100
26) Anthracene	6.111	178	42323	1009.678	ng/ml	100
27) Fluoranthene	6.894	202	44286	999.703	ng/ml	100
28) Pyrene	7.046	202	45669	1011.723	ng/ml	98
31) Benzo[a]anthracene	7.871	228	39473	943.970	ng/ml#	80
32) Chrysene	7.894	228	44590	1007.051	ug/ml	97
33) Bis(2-ethylhexyl)phtha...	7.930	149	17416	827.037	ng/ml	99
35) Benzo[b]fluoranthene	8.711	252	41554	969.548	ng/ml	99
36) Benzo[k]fluoranthene	8.736	252	40889	1065.020	ng/ml	100
37) Benzo[a]pyrene	9.012	252	33005	1004.269	ng/ml	100
38) Indeno[1,2,3-cd]pyrene	10.255	276	33801	953.664	ng/ml#	68
39) Dibenzo[a,h]anthracene	10.292	278	38089	1062.889	ng/ml#	67
40) Benzo[g,h,i]perylene	10.581	276	40448	1007.976	ng/ml#	67

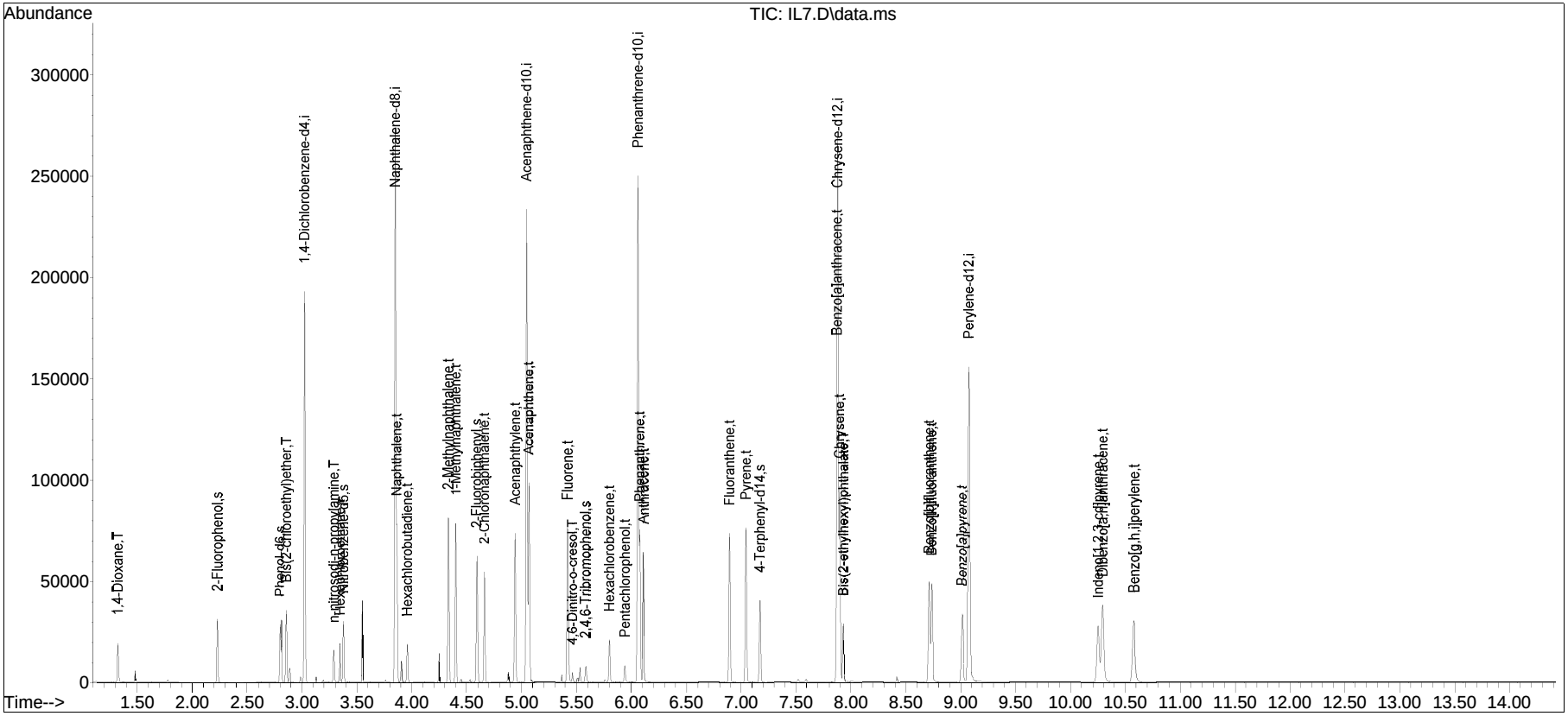
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : IL7.D
Acq On : 17 Sep 2020 03:47 pm
Operator : SV125:dv
Sample : IL7,32,,1.0
Misc : wg1411680,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 18 11:11:45 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:11:44 2020
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL7.D•



Manual Integration Report

Data Path	: I:\8270SIM\SV125\200917LVI	Method	: SIM-LVI_200917_sv125.M
Data File	: IL7.D	Operator	: SV125:dv
Date Inj'd	: 9/17/2020 3:47 pm	Instrument	: SV125
Sample	: IL7,32,,1.0	Quant Date	: 9/18/2020 11:11 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : IL6.D
Acq On : 17 Sep 2020 04:06 pm
Operator : SV125:dv
Sample : IL6,32,,0.25
Misc : wg1411680,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 18 11:11:41 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:11:40 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\200917LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	3.020	152	51979	4000.000 ng/ml	0.00
Standard Area 1 = 49673			Recovery = 104.64%		
9) Naphthalene-d8	3.850	136	183438	4000.000 ng/ml #	0.00
Standard Area 1 = 176534			Recovery = 103.91%		
17) Acenaphthene-d10	5.045	164	87682	4000.000 ng/ml	0.00
Standard Area 1 = 85067			Recovery = 103.07%		
21) Phenanthrene-d10	6.062	188	165079	4000.000 ng/ml #	0.00
Standard Area 1 = 164154			Recovery = 100.56%		
30) Chrysene-d12	7.877	240	132522	4000.000 ng/ml #	0.00
Standard Area 1 = 139210			Recovery = 95.20%		
34) Perylene-d12	9.073	264	129610	4000.000 ng/ml	0.00
Standard Area 1 = 138155			Recovery = 93.81%		
System Monitoring Compounds					
3) 2-Fluorophenol	2.234	112	3323	246.806 ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 4936.12%#		
4) Phenol-d6	2.801	99	3838	244.911 ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 4898.22%#		
8) Nitrobenzene-d5	3.378	82	2916	241.398 ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 9655.92%#		
14) 2-Fluorobiphenyl	4.593	172	8770	257.963 ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 10318.52%#		
20) 2,4,6-Tribromophenol	5.585	330	857	234.433 ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 4688.66%#		
29) 4-Terphenyl-d14	7.172	244	6976	247.840 ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 9913.60%#		
Target Compounds					Qvalue
2) 1,4-Dioxane	1.328	88	1515	234.684 ng/ml#	100
5) Bis(2-chloroethyl)ether	2.860	93	3584	253.563 ng/ml	83
6) n-nitrosodi-n-propylamine	3.290	70	2099	242.655 ng/ml	95
7) Hexachloroethane	3.348	117	1541	247.463 ng/ml	93
10) Naphthalene	3.864	128	12055	251.792 ng/ml#	82
11) Hexachlorobutadiene	3.961	225	2077	253.791 ng/ml	99
12) 2-Methylnaphthalene	4.334	142	7587	253.362 ng/ml	100
13) 1-Methylnaphthalene	4.400	142	7030	253.473 ng/ml	99
15) 2-Chloronaphthalene	4.662	162	7444	250.941 ng/ml	98
16) Acenaphthylene	4.942	152	10234	239.270 ng/ml	98
18) Acenaphthene	5.065	153	7730	252.030 ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : IL6.D
Acq On : 17 Sep 2020 04:06 pm
Operator : SV125:dv
Sample : IL6,32,,0.25
Misc : wg1411680,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 18 11:11:41 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:11:40 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\200917LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) Fluorene	5.419	166	7373	246.962	ng/ml	99
22) 4,6-Dinitro-o-cresol	5.462	198	517	228.622	ng/ml	99
23) Hexachlorobenzene	5.802	284	2545	251.441	ng/ml	100
24) Pentachlorophenol	5.941	266	758	230.331	ng/ml	99
25) Phenanthrene	6.077	178	11640	250.897	ng/ml	99
26) Anthracene	6.109	178	10367	245.934	ng/ml	100
27) Fluoranthene	6.895	202	10786	242.117	ng/ml	100
28) Pyrene	7.047	202	10982	241.925	ng/ml	98
31) Benzo[a]anthracene	7.871	228	9516	233.863	ng/ml#	81
32) Chrysene	7.895	228	10781	255.774	ug/ml	97
33) Bis(2-ethylhexyl)phtha...	7.931	149	4021	200.582	ng/ml	99
35) Benzo[b]fluoranthene	8.711	252	9863	245.298	ng/ml	99
36) Benzo[k]fluoranthene	8.736	252	8696	241.434	ng/ml	100
37) Benzo[a]pyrene	9.010	252	7254	235.275	ng/ml	100
38) Indeno[1,2,3-cd]pyrene	10.249	276	7681	231.000	ng/ml#	68
39) Dibenzo[a,h]anthracene	10.290	278	7942	236.236	ng/ml#	68
40) Benzo[g,h,i]perylene	10.579	276	9160	243.319	ng/ml#	66

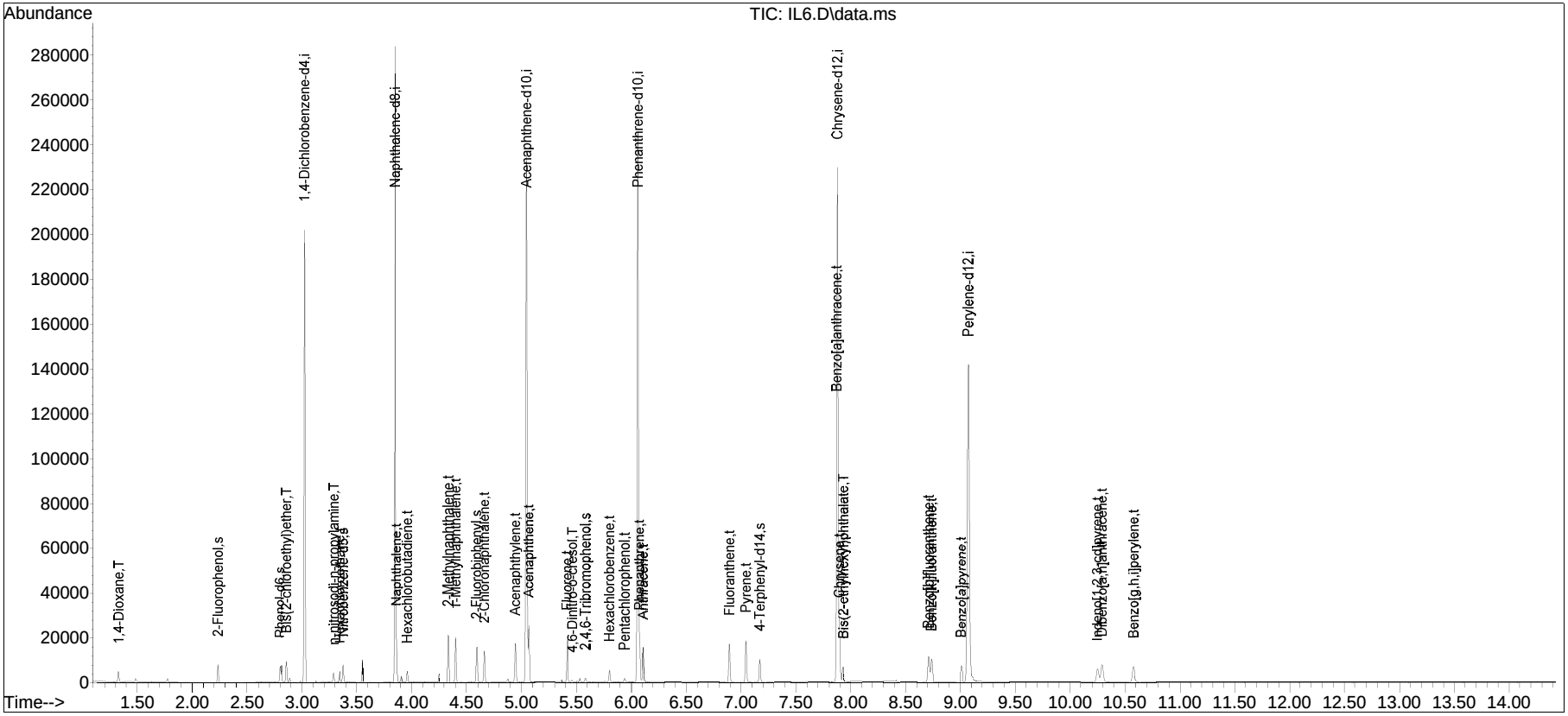
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : IL6.D
Acq On : 17 Sep 2020 04:06 pm
Operator : SV125:dv
Sample : IL6,32,,0.25
Misc : wg1411680,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 18 11:11:41 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:11:40 2020
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL7.D•



Manual Integration Report

Data Path	: I:\8270SIM\SV125\200917LVIQ	Method	: SIM-LVI_200917_sv125.M
Data File	: IL6.D	Operator	: SV125:dv
Date Inj'd	: 9/17/2020 4:06 pm	Instrument	: SV125
Sample	: IL6,32,,0.25	Quant Date	: 9/18/2020 11:11 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : IL5.D
Acq On : 17 Sep 2020 04:25 pm
Operator : SV125:dv
Sample : IL5,32,,0.1
Misc : wg1411680,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 11:11:37 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:11:34 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\200917LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.022	152	51472	4000.000	ng/ml	0.00
Standard Area 1 = 49673			Recovery = 103.62%			
9) Naphthalene-d8	3.852	136	180236	4000.000	ng/ml	# 0.00
Standard Area 1 = 176534			Recovery = 102.10%			
17) Acenaphthene-d10	5.044	164	84749	4000.000	ng/ml	0.00
Standard Area 1 = 85067			Recovery = 99.63%			
21) Phenanthrene-d10	6.061	188	160221	4000.000	ng/ml	# 0.00
Standard Area 1 = 164154			Recovery = 97.60%			
30) Chrysene-d12	7.877	240	127256	4000.000	ng/ml	# 0.00
Standard Area 1 = 139210			Recovery = 91.41%			
34) Perylene-d12	9.072	264	122994	4000.000	ng/ml	0.00
Standard Area 1 = 138155			Recovery = 89.03%			
System Monitoring Compounds						
3) 2-Fluorophenol	2.234	112	1307	98.030	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 1960.60%#			
4) Phenol-d6	2.799	99	1488	95.888	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 1917.76%#			
8) Nitrobenzene-d5	3.377	82	1118	93.464	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 3738.56%#			
14) 2-Fluorobiphenyl	4.592	172	3404	101.905	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 4076.20%#			
20) 2,4,6-Tribromophenol	5.584	330	339	95.943	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 1918.86%#			
29) 4-Terphenyl-d14	7.170	244	2690	98.467	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 3938.68%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.328	88	624	97.614	ng/ml#	100
5) Bis(2-chloroethyl)ether	2.862	93	1407	100.524	ng/ml#	82
6) n-nitrosodi-n-propylamine	3.291	70	807	94.212	ng/ml	96
7) Hexachloroethane	3.347	117	603	97.787	ng/ml	95
10) Naphthalene	3.863	128	4760	101.188	ng/ml#	82
11) Hexachlorobutadiene	3.962	225	824	102.474	ng/ml	99
12) 2-Methylnaphthalene	4.335	142	2960	100.603	ng/ml	100
13) 1-Methylnaphthalene	4.402	142	2782	102.089	ng/ml	99
15) 2-Chloronaphthalene	4.661	162	2932	100.595	ng/ml	99
16) Acenaphthylene	4.944	152	3999	95.157	ng/ml	98
18) Acenaphthene	5.064	153	3078	103.829	ng/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : IL5.D
Acq On : 17 Sep 2020 04:25 pm
Operator : SV125:dv
Sample : IL5,32,,0.1
Misc : wg1411680,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 11:11:37 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:11:34 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\200917LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) Fluorene	5.421	166	2883	99.909	ng/ml	99
22) 4,6-Dinitro-o-cresol	5.461	198	174	120.963	ng/ml	98
23) Hexachlorobenzene	5.804	284	999	101.692	ng/ml	98
24) Pentachlorophenol	5.940	266	238	87.049	ng/ml	99
25) Phenanthrene	6.076	178	4624M6	102.691	ng/ml	
26) Anthracene	6.111	178	4035	98.624	ng/ml	100
27) Fluoranthene	6.893	202	4230	97.831	ng/ml	100
28) Pyrene	7.045	202	4288	97.326	ng/ml	98
31) Benzo[a]anthracene	7.871	228	3894	95.670	ng/ml#	82
32) Chrysene	7.894	228	4265	105.372	ug/ml	97
33) Bis(2-ethylhexyl)phtha...	7.930	149	1598	83.013	ng/ml	98
35) Benzo[b]fluoranthene	8.710	252	3778	99.015	ng/ml	99
36) Benzo[k]fluoranthene	8.732	252	3302	96.608	ng/ml	100
37) Benzo[a]pyrene	9.009	252	2768	94.606	ng/ml	100
38) Indeno[1,2,3-cd]pyrene	10.248	276	3016	95.583	ng/ml#	68
39) Dibenzo[a,h]anthracene	10.289	278	2979	93.377	ng/ml#	68
40) Benzo[g,h,i]perylene	10.575	276	3540	99.092	ng/ml#	67

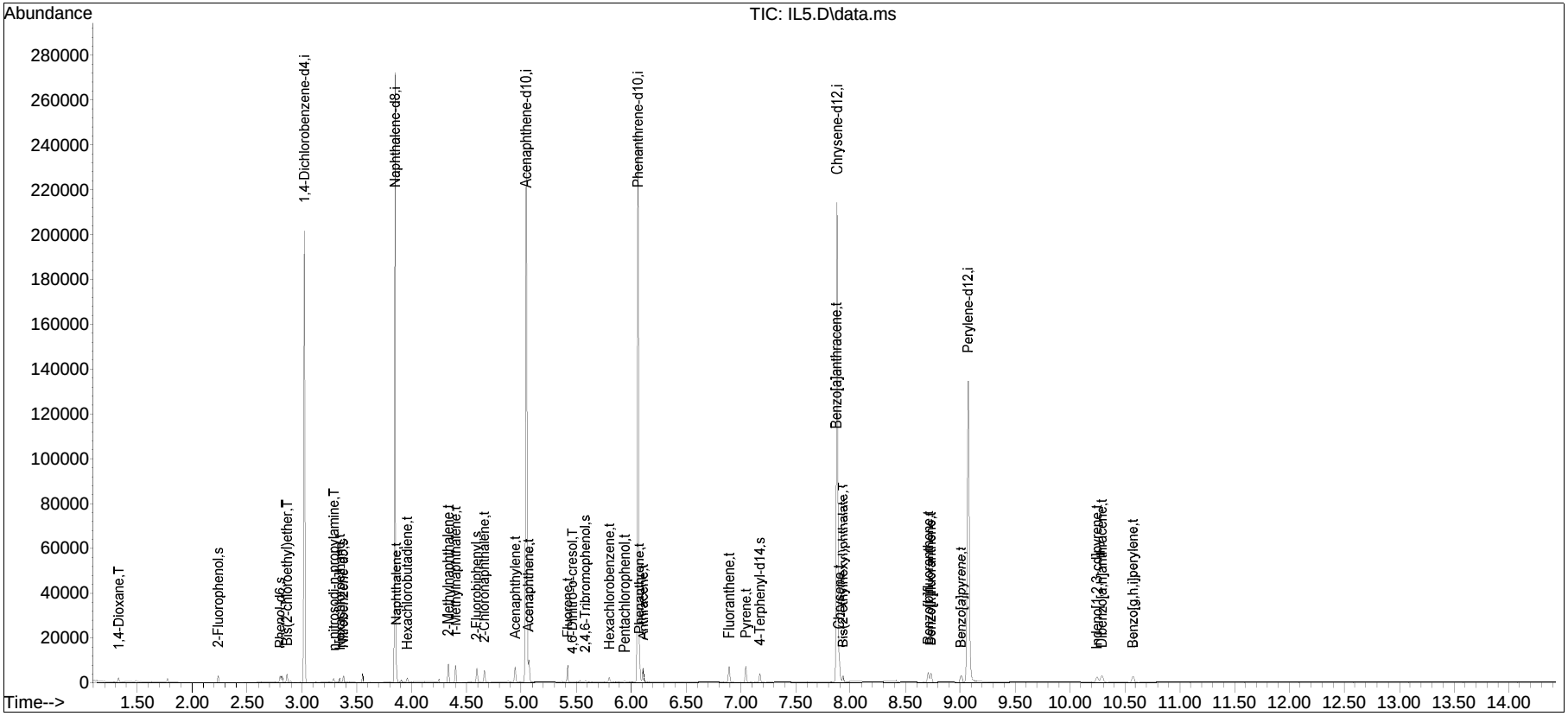
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : IL5.D
Acq On : 17 Sep 2020 04:25 pm
Operator : SV125:dv
Sample : IL5,32,,0.1
Misc : wg1411680,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 11:11:37 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:11:34 2020
Response via : Initial Calibration

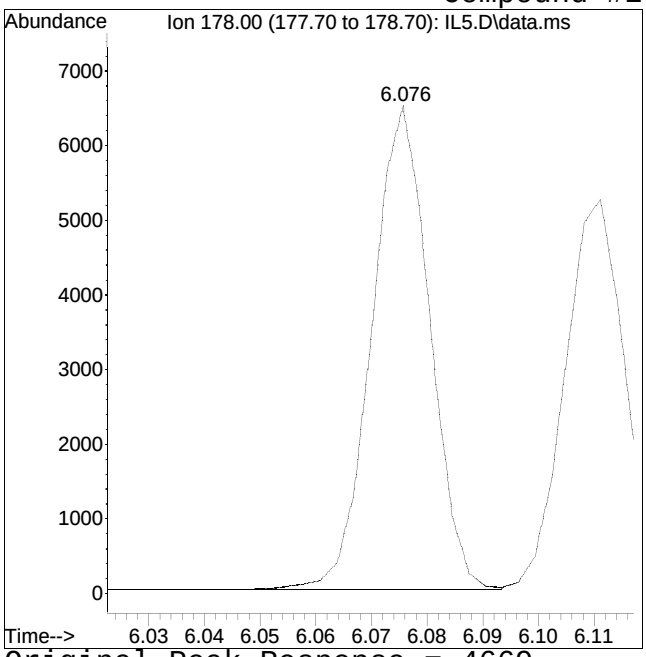
Sub List : Default - All compounds listedical\IL7.D•



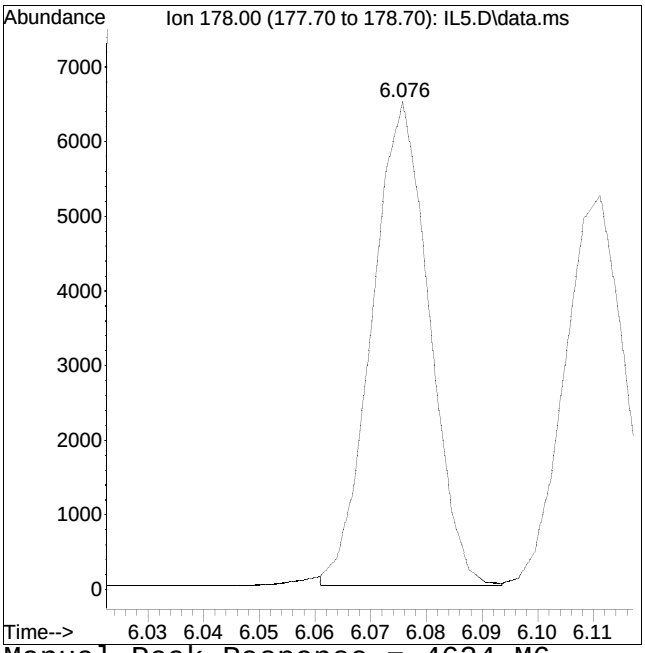
Manual Integration Report

Data Path : I:\8270SIM\SV125\200917LVIQMethod : SIM-LVI_200917_sv125.M
Data File : IL5.D Operator : SV125:dv
Date Inj'd : 9/17/2020 4:25 pm Instrument : SV125
Sample : IL5,32,,0.1 Quant Date : 9/18/2020 11:11 am

Compound #25: Phenanthrene



Original Peak Response = 4669



Manual Peak Response = 4624 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : IL4.D
Acq On : 17 Sep 2020 04:43 pm
Operator : SV125:dv
Sample : IL4,32,,0.05
Misc : wg1411680,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 18 11:11:32 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:11:30 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\200917LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.022	152	50167	4000.000	ng/ml	0.00
Standard Area 1 = 49673			Recovery = 100.99%			
9) Naphthalene-d8	3.849	136	175864	4000.000	ng/ml	# 0.00
Standard Area 1 = 176534			Recovery = 99.62%			
17) Acenaphthene-d10	5.045	164	84109	4000.000	ng/ml	0.00
Standard Area 1 = 85067			Recovery = 98.87%			
21) Phenanthrene-d10	6.059	188	162009	4000.000	ng/ml	# 0.00
Standard Area 1 = 164154			Recovery = 98.69%			
30) Chrysene-d12	7.877	240	129274	4000.000	ng/ml	# 0.00
Standard Area 1 = 139210			Recovery = 92.86%			
34) Perylene-d12	9.069	264	124051	4000.000	ng/ml	0.00
Standard Area 1 = 138155			Recovery = 89.79%			
System Monitoring Compounds						
3) 2-Fluorophenol	2.234	112	634	48.789	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 975.78%#			
4) Phenol-d6	2.800	99	750	49.588	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 991.76%#			
8) Nitrobenzene-d5	3.377	82	574	49.234	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 1969.36%#			
14) 2-Fluorobiphenyl	4.592	172	1768	54.244	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 2169.76%#			
20) 2,4,6-Tribromophenol	5.585	330	164	46.768	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 935.36%#			
29) 4-Terphenyl-d14	7.171	244	1387	50.210	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 2008.40%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.327	88	319	51.200	ng/ml#	100
5) Bis(2-chloroethyl)ether	2.863	93	704	51.606	ng/ml#	82
6) n-nitrosodi-n-propylamine	3.292	70	413	49.469	ng/ml	93
7) Hexachloroethane	3.347	117	299	49.749	ng/ml	95
10) Naphthalene	3.863	128	2394	52.157	ng/ml#	81
11) Hexachlorobutadiene	3.963	225	420	53.531	ng/ml	97
12) 2-Methylnaphthalene	4.336	142	1504	52.388	ng/ml	100
13) 1-Methylnaphthalene	4.400	142	1397	52.539	ng/ml	100
15) 2-Chloronaphthalene	4.661	162	1482	52.111	ng/ml	98
16) Acenaphthylene	4.945	152	1971	48.066	ng/ml	99
18) Acenaphthene	5.065	153	1548	52.615	ng/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : IL4.D
Acq On : 17 Sep 2020 04:43 pm
Operator : SV125:dv
Sample : IL4,32,,0.05
Misc : wg1411680,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 18 11:11:32 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:11:30 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\200917LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) Fluorene	5.418	166	1442	50.352	ng/ml	98
22) 4,6-Dinitro-o-cresol	5.465	198	79	89.443	ng/ml#	34
23) Hexachlorobenzene	5.802	284	516M6	51.946	ng/ml	
24) Pentachlorophenol	5.941	266	99	46.224	ng/ml	96
25) Phenanthrene	6.074	178	2392M6	52.536	ng/ml	
26) Anthracene	6.109	178	2040	49.312	ng/ml	100
27) Fluoranthene	6.894	202	2160	49.405	ng/ml	100
28) Pyrene	7.046	202	2192	49.203	ng/ml	98
31) Benzo[a]anthracene	7.871	228	2183	49.681	ng/ml#	84
32) Chrysene	7.892	228	2124	51.657	ug/ml	100
33) Bis(2-ethylhexyl)phtha...	7.928	149	875	44.745	ng/ml	98
35) Benzo[b]fluoranthene	8.708	252	1869	48.566	ng/ml	100
36) Benzo[k]fluoranthene	8.733	252	1698	49.256	ng/ml	99
37) Benzo[a]pyrene	9.009	252	1369	46.392	ng/ml	99
38) Indeno[1,2,3-cd]pyrene	10.249	276	1521	47.793	ng/ml#	68
39) Dibenzo[a,h]anthracene	10.286	278	1502	46.679	ng/ml#	67
40) Benzo[g,h,i]perylene	10.575	276	1751	48.597	ng/ml#	67

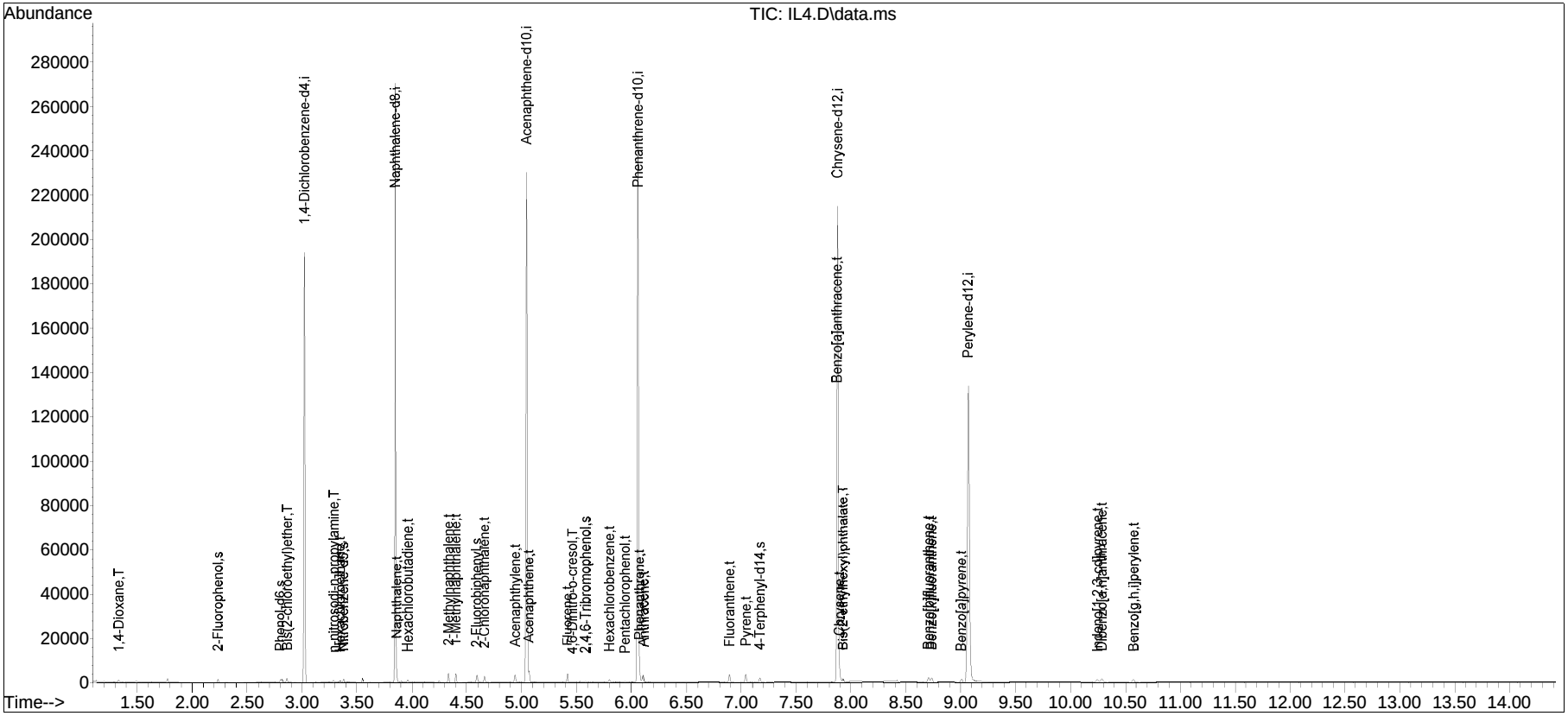
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : IL4.D
Acq On : 17 Sep 2020 04:43 pm
Operator : SV125:dv
Sample : IL4,32,,0.05
Misc : wg1411680,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 18 11:11:32 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:11:30 2020
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL7.D•

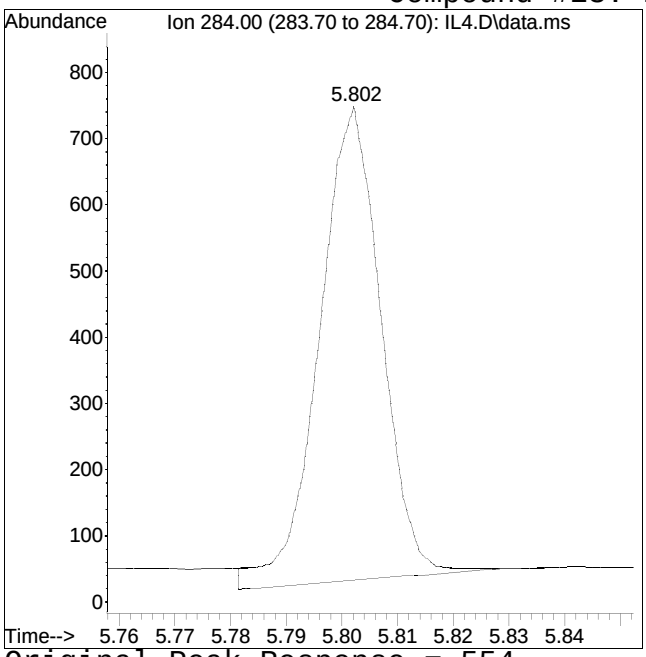


Manual Integration Report

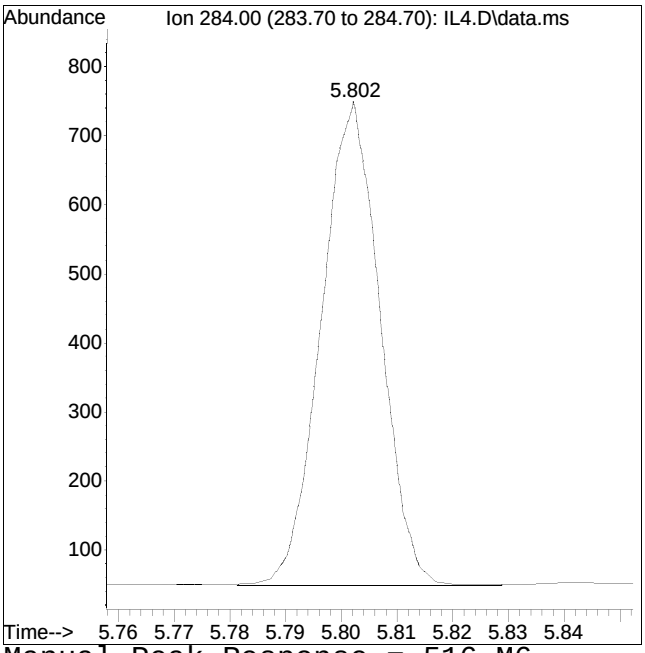
Data Path : I:\8270SIM\SV125\200917LVIQ
Data File : IL4.D
Date Inj'd : 9/17/2020 4:43 pm
Sample : IL4,32,,0.05

Method : SIM-LVI_200917_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 9/18/2020 11:11 am

Compound #23: Hexachlorobenzene



Original Peak Response = 554



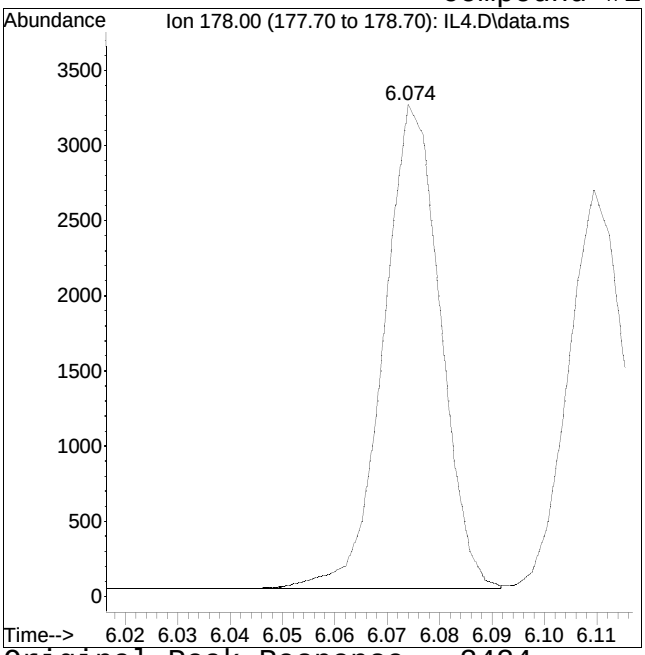
Manual Peak Response = 516 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

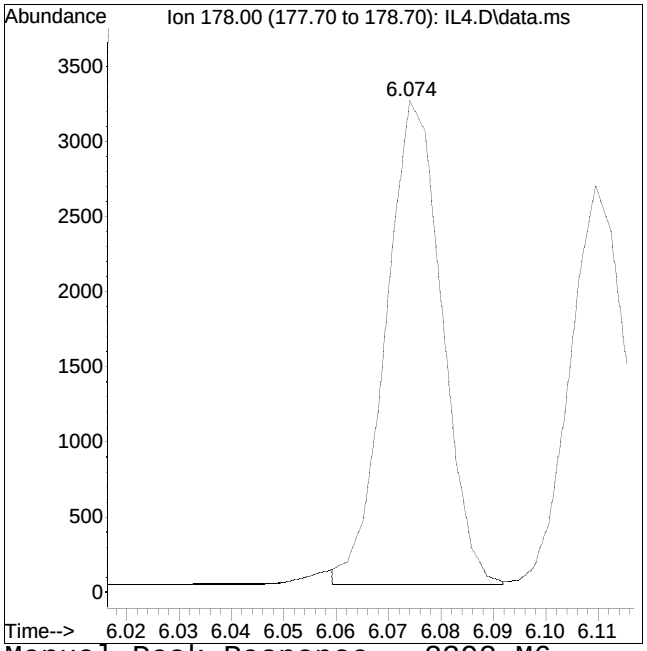
Manual Integration Report

Data Path : I:\8270SIM\SV125\200917LVIQMethod : SIM-LVI_200917_sv125.M
Data File : IL4.D Operator : SV125:dv
Date Inj'd : 9/17/2020 4:43 pm Instrument : SV125
Sample : IL4,32,,0.05 Quant Date : 9/18/2020 11:11 am

Compound #25: Phenanthrene



Original Peak Response = 2424



Manual Peak Response = 2392 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : IL3.D
Acq On : 17 Sep 2020 05:02 pm
Operator : SV125:dv
Sample : IL3,32,,0.025
Misc : wg1411680,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 18 11:11:27 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:11:25 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\200917LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.022	152	49803	4000.000	ng/ml	0.00
Standard Area 1 = 49673			Recovery = 100.26%			
9) Naphthalene-d8	3.849	136	173661	4000.000	ng/ml #	0.00
Standard Area 1 = 176534			Recovery = 98.37%			
17) Acenaphthene-d10	5.044	164	82070	4000.000	ng/ml	0.00
Standard Area 1 = 85067			Recovery = 96.48%			
21) Phenanthrene-d10	6.061	188	157305	4000.000	ng/ml #	0.00
Standard Area 1 = 164154			Recovery = 95.83%			
30) Chrysene-d12	7.876	240	124290	4000.000	ng/ml #	0.00
Standard Area 1 = 139210			Recovery = 89.28%			
34) Perylene-d12	9.068	264	117449	4000.000	ng/ml	0.00
Standard Area 1 = 138155			Recovery = 85.01%			
System Monitoring Compounds						
3) 2-Fluorophenol	2.234	112	311	24.108	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 482.16%#			
4) Phenol-d6	2.799	99	364	24.242	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 484.84%#			
8) Nitrobenzene-d5	3.380	82	285	24.624	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 984.96%#			
14) 2-Fluorobiphenyl	4.592	172	853	26.503	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 1060.12%#			
20) 2,4,6-Tribromophenol	5.584	330	74	21.627	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 432.54%#			
29) 4-Terphenyl-d14	7.170	244	659	24.570	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 982.80%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.331	88	151	24.413	ng/ml#	100
5) Bis(2-chloroethyl)ether	2.862	93	345	25.475	ng/ml#	82
6) n-nitrosodi-n-propylamine	3.291	70	202	24.373	ng/ml#	52
7) Hexachloroethane	3.347	117	148	24.805	ng/ml	96
10) Naphthalene	3.862	128	1169	25.791	ng/ml#	81
11) Hexachlorobutadiene	3.962	225	203	26.201	ng/ml	98
12) 2-Methylnaphthalene	4.335	142	739	26.068	ng/ml	100
13) 1-Methylnaphthalene	4.399	142	679	25.860	ng/ml	99
15) 2-Chloronaphthalene	4.661	162	714	25.424	ng/ml	98
16) Acenaphthylene	4.944	152	944	23.313	ng/ml	99
18) Acenaphthene	5.064	153	782	27.240	ng/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : IL3.D
Acq On : 17 Sep 2020 05:02 pm
Operator : SV125:dv
Sample : IL3,32,,0.025
Misc : wg1411680,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 18 11:11:27 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:11:25 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\200917LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) Fluorene	5.418	166	698	24.979	ng/ml	100
22) 4,6-Dinitro-o-cresol	5.467	198	39M2	76.812	ng/ml	
23) Hexachlorobenzene	5.801	284	247	25.609	ng/ml	97
24) Pentachlorophenol	5.942	266	46	31.290	ng/ml#	18
25) Phenanthrene	6.075	178	1164M6	26.330	ng/ml	
26) Anthracene	6.111	178	969	24.123	ng/ml	100
27) Fluoranthene	6.893	202	1032	24.310	ng/ml	99
28) Pyrene	7.045	202	1041	24.066	ng/ml	99
31) Benzo[a]anthracene	7.870	228	1193	25.239	ng/ml#	86
32) Chrysene	7.891	228	1074	27.168	ug/ml	97
33) Bis(2-ethylhexyl)phtha...	7.926	149	456	24.254	ng/ml	100
35) Benzo[b]fluoranthene	8.710	252	860	23.603	ng/ml	98
36) Benzo[k]fluoranthene	8.732	252	808	24.756	ng/ml	96
37) Benzo[a]pyrene	9.008	252	640	22.907	ng/ml	99
38) Indeno[1,2,3-cd]pyrene	10.247	276	720	23.895	ng/ml#	68
39) Dibenzo[a,h]anthracene	10.288	278	678	22.255	ng/ml#	68
40) Benzo[g,h,i]perylene	10.574	276	824	24.154	ng/ml#	67

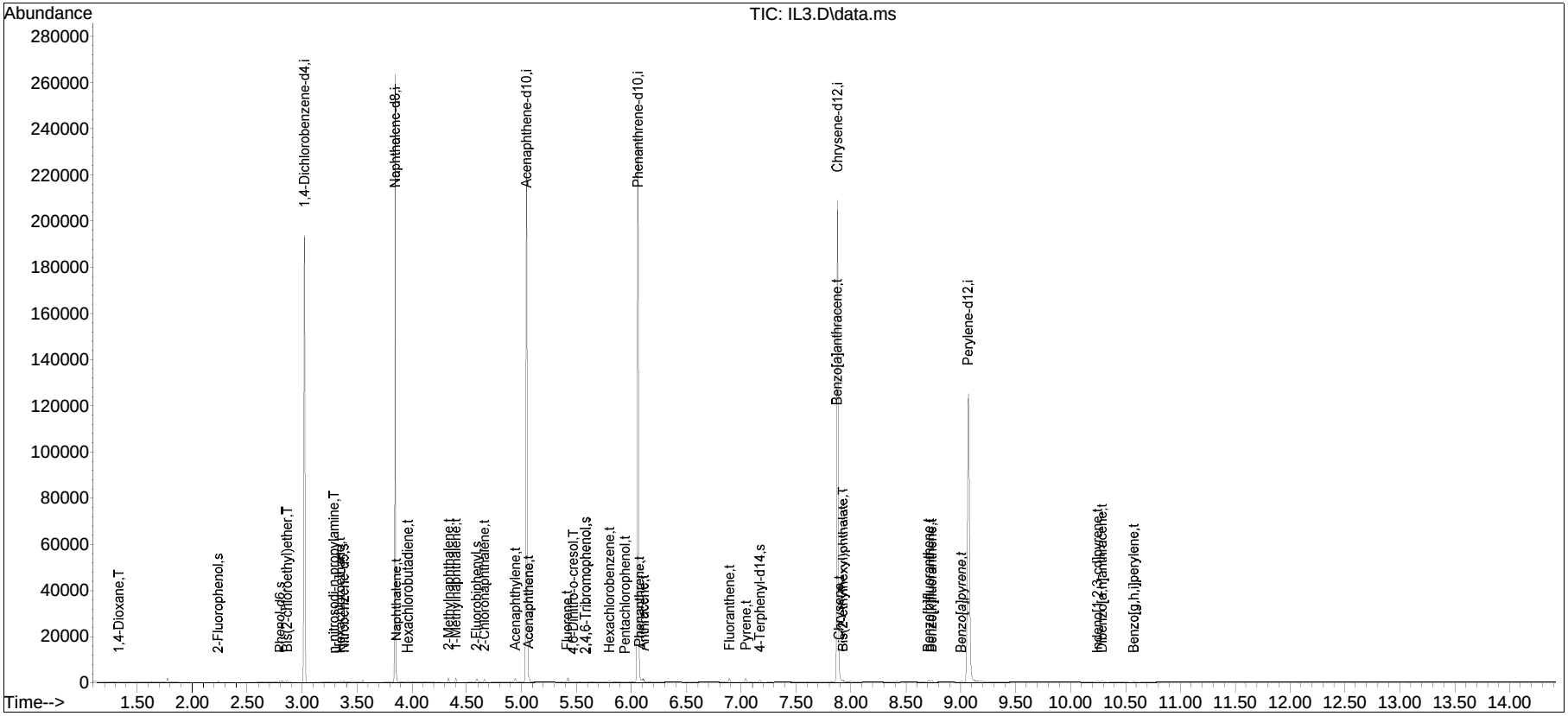
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : IL3.D
Acq On : 17 Sep 2020 05:02 pm
Operator : SV125:dv
Sample : IL3,32,,0.025
Misc : wg1411680,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 18 11:11:27 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:11:25 2020
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL7.D•

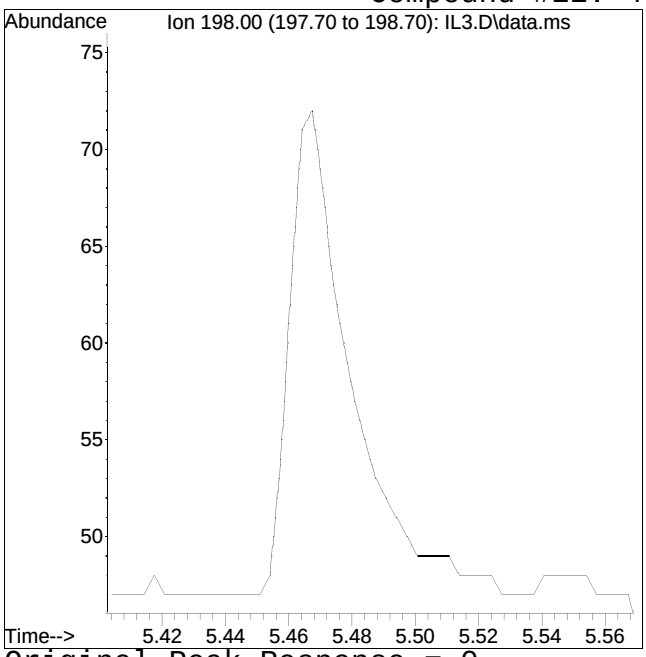


Manual Integration Report

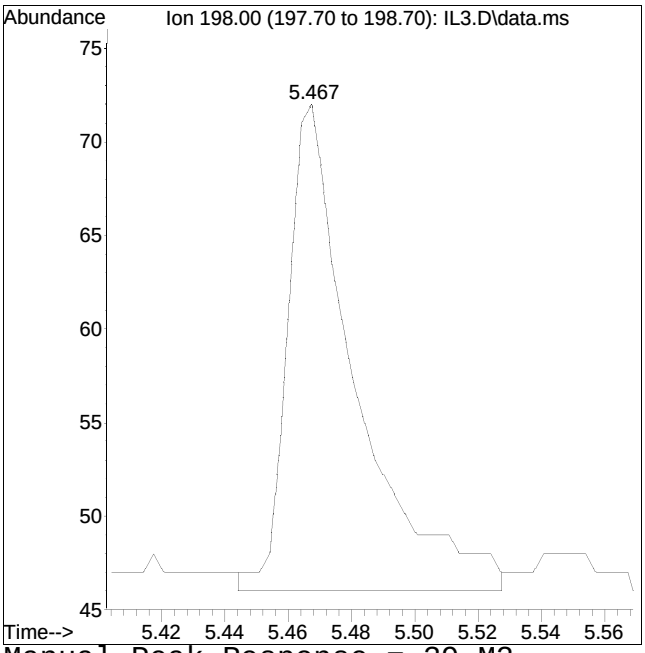
Data Path : I:\8270SIM\SV125\200917LVIQ
Data File : IL3.D
Date Inj'd : 9/17/2020 5:02 pm
Sample : IL3,32,,0.025

Method : SIM-LVI_200917_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 9/18/2020 11:11 am

Compound #22: 4,6-Dinitro-o-cresol



Original Peak Response = 0



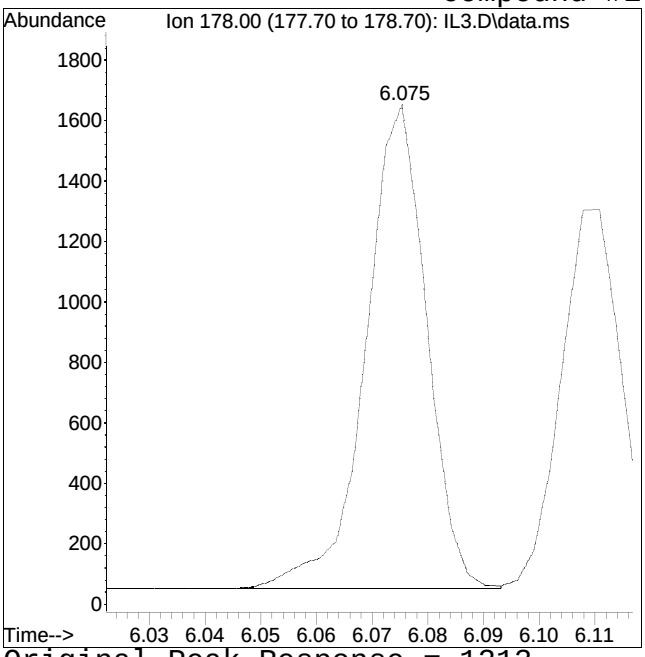
Manual Peak Response = 39 M2

M2 = Peak not found by automatic integration algorithm.

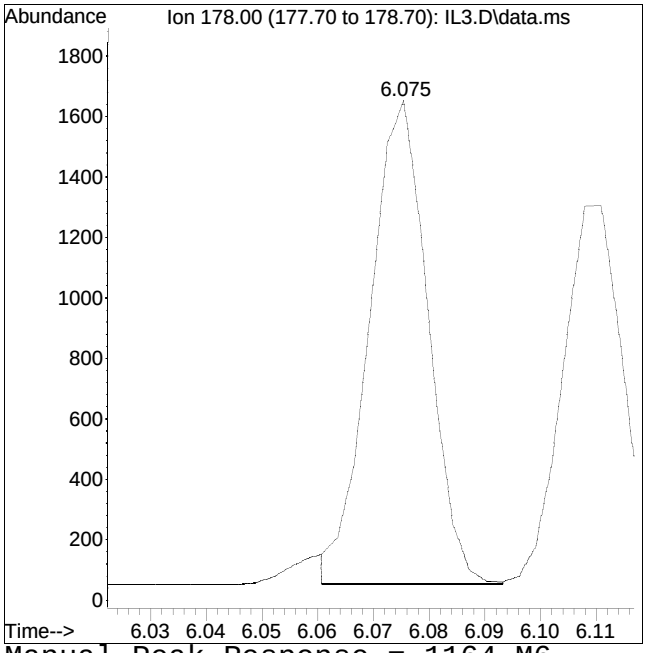
Manual Integration Report

Data Path : I:\8270SIM\SV125\200917LVIQMethod : SIM-LVI_200917_sv125.M
Data File : IL3.D Operator : SV125:dv
Date Inj'd : 9/17/2020 5:02 pm Instrument : SV125
Sample : IL3,32,,0.025 Quant Date : 9/18/2020 11:11 am

Compound #25: Phenanthrene



Original Peak Response = 1213



Manual Peak Response = 1164 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : IL2.D
Acq On : 17 Sep 2020 05:21 pm
Operator : SV125:dv
Sample : IL2,32,,0.01
Misc : wg1411680,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 18 11:11:22 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:11:19 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\200917LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.022	152	50180	4000.000	ng/ml	0.00
Standard Area 1 = 49673			Recovery = 101.02%			
9) Naphthalene-d8	3.849	136	175775	4000.000	ng/ml	# 0.00
Standard Area 1 = 176534			Recovery = 99.57%			
17) Acenaphthene-d10	5.044	164	81418	4000.000	ng/ml	0.00
Standard Area 1 = 85067			Recovery = 95.71%			
21) Phenanthrene-d10	6.058	188	151437	4000.000	ng/ml	# 0.00
Standard Area 1 = 164154			Recovery = 92.25%			
30) Chrysene-d12	7.877	240	118275	4000.000	ng/ml	# 0.00
Standard Area 1 = 139210			Recovery = 84.96%			
34) Perylene-d12	9.069	264	113358	4000.000	ng/ml	0.00
Standard Area 1 = 138155			Recovery = 82.05%			
System Monitoring Compounds						
3) 2-Fluorophenol	2.234	112	129	9.925	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 198.50%#			
4) Phenol-d6	2.799	99	154	10.179	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 203.58%#			
8) Nitrobenzene-d5	3.380	82	117	10.033	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 401.32%#			
14) 2-Fluorobiphenyl	4.592	172	357	10.959	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 438.36%#			
20) 2,4,6-Tribromophenol	5.584	330	32M2	9.427	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 188.54%#			
29) 4-Terphenyl-d14	7.170	244	260	10.069	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 402.76%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.334	88	145	23.267	ng/ml#	100
5) Bis(2-chloroethyl)ether	2.862	93	139	10.187	ng/ml#	81
6) n-nitrosodi-n-propylamine	3.291	70	82	9.819	ng/ml#	52
7) Hexachloroethane	3.347	117	63	10.480	ng/ml	90
10) Naphthalene	3.863	128	491	10.703	ng/ml#	79
11) Hexachlorobutadiene	3.962	225	80	10.201	ng/ml	88
12) 2-Methylnaphthalene	4.335	142	303	10.560	ng/ml	99
13) 1-Methylnaphthalene	4.399	142	281	10.573	ng/ml	99
15) 2-Chloronaphthalene	4.661	162	295	10.378	ng/ml	99
16) Acenaphthylene	4.944	152	378	9.223	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : IL2.D
Acq On : 17 Sep 2020 05:21 pm
Operator : SV125:dv
Sample : IL2,32,,0.01
Misc : wg1411680,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 18 11:11:22 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:11:19 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\200917LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Acenaphthene	5.064	153	328	11.517	ng/ml	88
19) Fluorene	5.418	166	285	10.281	ng/ml	99
22) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
23) Hexachlorobenzene	5.801	284	96	10.339	ng/ml#	21
24) Pentachlorophenol	5.943	266	20M2	23.764	ng/ml	
25) Phenanthrene	6.075	178	480M6	11.278	ng/ml	
26) Anthracene	6.108	178	394	10.189	ng/ml	97
27) Fluoranthene	6.893	202	408	9.984	ng/ml	99
28) Pyrene	7.045	202	417	10.014	ng/ml	100
31) Benzo[a]anthracene	7.874	228	659	11.735	ng/ml	95
32) Chrysene	7.891	228	414	11.005	ug/ml	95
33) Bis(2-ethylhexyl)phtha...	7.927	149	213	11.905	ng/ml	100
35) Benzo[b]fluoranthene	8.707	252	355	10.095	ng/ml	100
36) Benzo[k]fluoranthene	8.732	252	298	9.460	ng/ml	98
37) Benzo[a]pyrene	9.006	252	252	9.345	ng/ml	96
38) Indeno[1,2,3-cd]pyrene	10.245	276	292	10.041	ng/ml#	68
39) Dibenzo[a,h]anthracene	10.286	278	277	9.421	ng/ml#	69
40) Benzo[g,h,i]perylene	10.572	276	328	9.962	ng/ml#	68

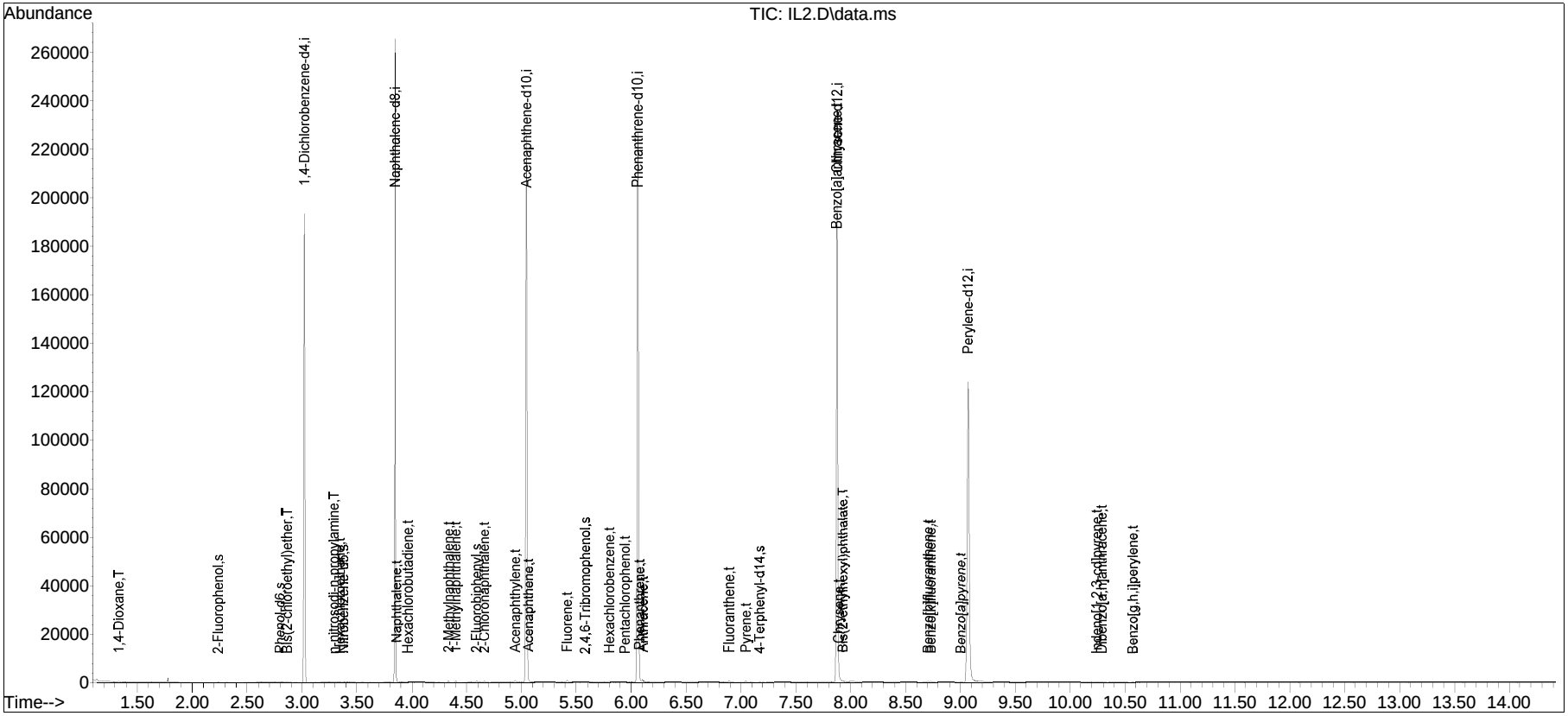
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : IL2.D
Acq On : 17 Sep 2020 05:21 pm
Operator : SV125:dv
Sample : IL2,32,,0.01
Misc : wg1411680,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 18 11:11:22 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:11:19 2020
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL7.D•

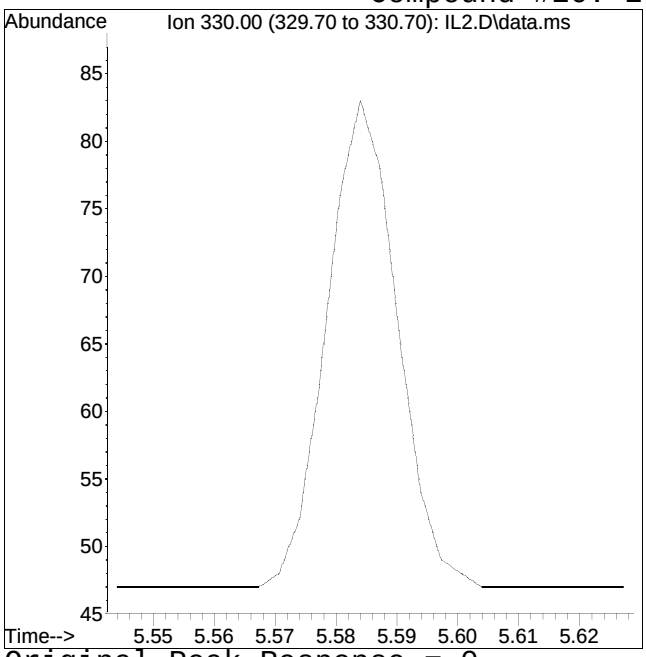


Manual Integration Report

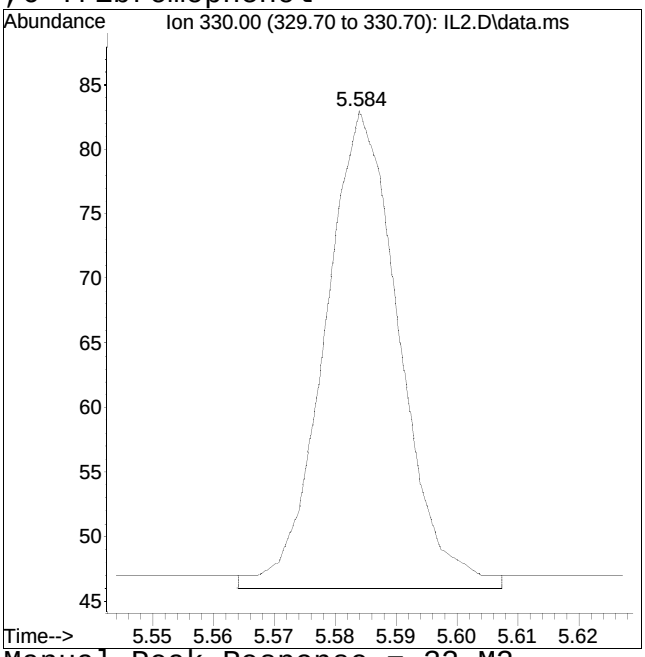
Data Path : I:\8270SIM\SV125\200917LVIQ
Data File : IL2.D
Date Inj'd : 9/17/2020 5:21 pm
Sample : IL2,32,,0.01

Method : SIM-LVI_200917_sv125.M
Operator : SV125:dv
Instrument : SV125
Quant Date : 9/18/2020 11:11 am

Compound #20: 2,4,6-Tribromophenol



Original Peak Response = 0



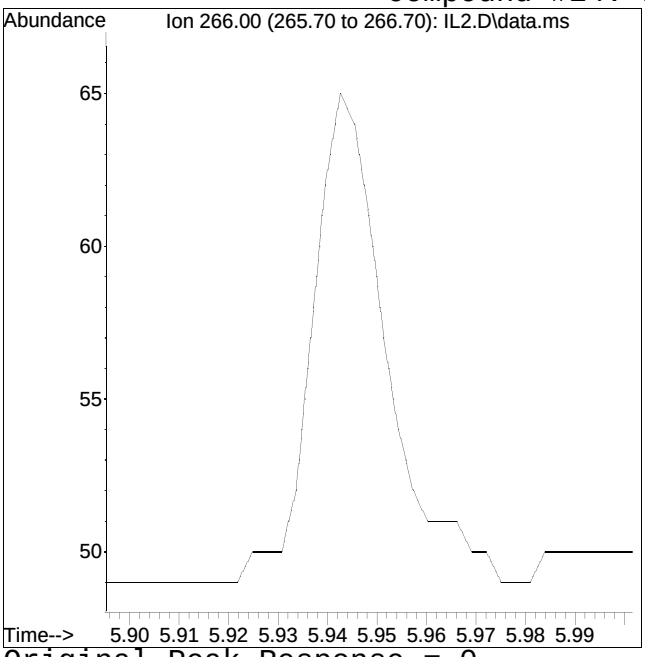
Manual Peak Response = 32 M2

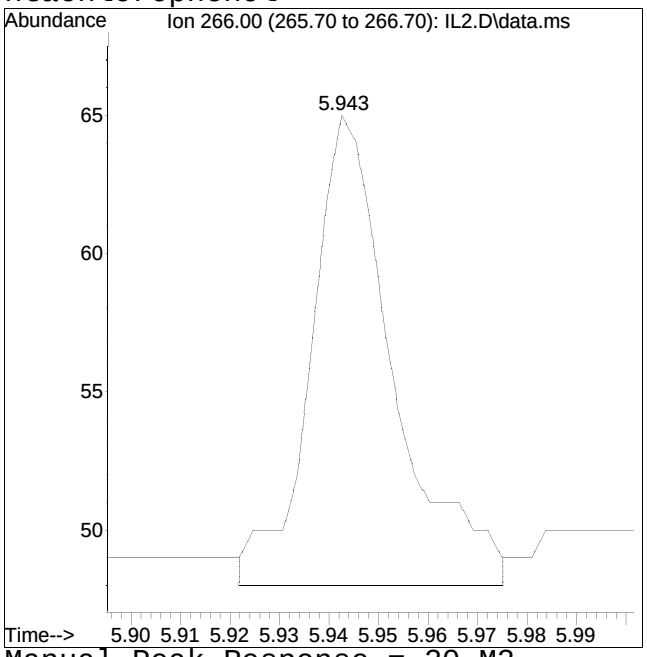
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270SIM\SV125\200917LVIQMethod : SIM-LVI_200917_sv125.M
Data File : IL2.D Operator : SV125:dv
Date Inj'd : 9/17/2020 5:21 pm Instrument : SV125
Sample : IL2,32,,0.01 Quant Date : 9/18/2020 11:11 am

Compound #24: Pentachlorophenol



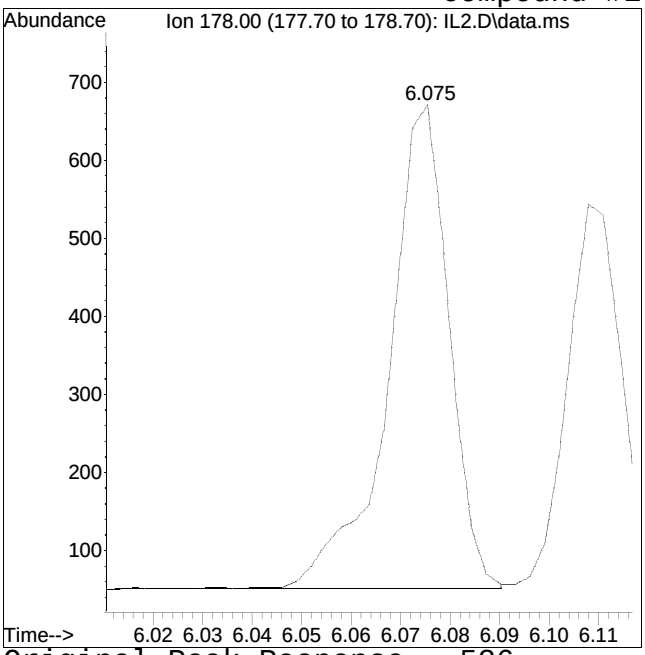


Original Peak Response = 0 Manual Peak Response = 20 M2
M2 = Peak not found by automatic integration algorithm.

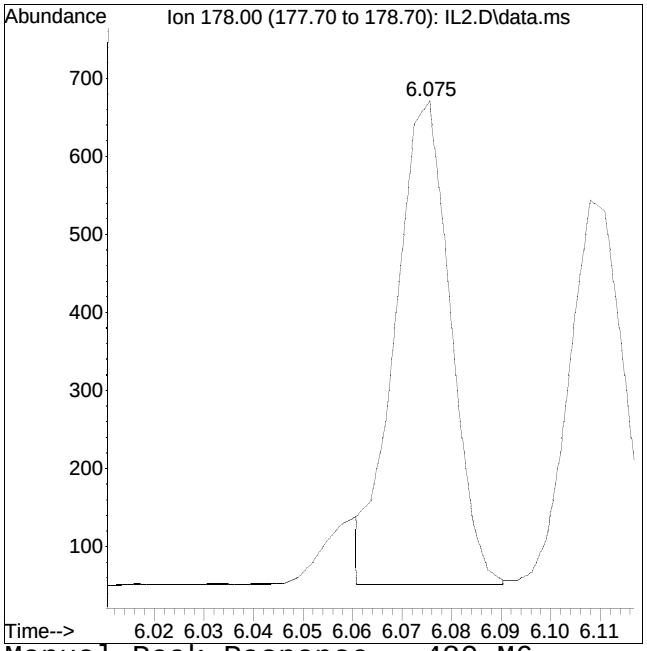
Manual Integration Report

Data Path : I:\8270SIM\SV125\200917LVIQMethod : SIM-LVI_200917_sv125.M
Data File : IL2.D Operator : SV125:dv
Date Inj'd : 9/17/2020 5:21 pm Instrument : SV125
Sample : IL2,32,,0.01 Quant Date : 9/18/2020 11:11 am

Compound #25: Phenanthrene



Original Peak Response = 526



Manual Peak Response = 480 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : IL1.D
Acq On : 17 Sep 2020 05:40 pm
Operator : SV125:dv
Sample : IL1,32,,0.005
Misc : wg1411680,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 18 11:11:10 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:11:08 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\200917LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.020	152	48215	4000.000	ng/ml	0.00
Standard Area 1 = 49673			Recovery = 97.06%			
9) Naphthalene-d8	3.850	136	168584	4000.000	ng/ml #	0.00
Standard Area 1 = 176534			Recovery = 95.50%			
17) Acenaphthene-d10	5.042	164	78354	4000.000	ng/ml	0.00
Standard Area 1 = 85067			Recovery = 92.11%			
21) Phenanthrene-d10	6.059	188	149729	4000.000	ng/ml #	0.00
Standard Area 1 = 164154			Recovery = 91.21%			
30) Chrysene-d12	7.874	240	118392	4000.000	ng/ml #	0.00
Standard Area 1 = 139210			Recovery = 85.05%			
34) Perylene-d12	9.066	264	112228	4000.000	ng/ml	0.00
Standard Area 1 = 138155			Recovery = 81.23%			
System Monitoring Compounds						
3) 2-Fluorophenol	2.234	112	69	5.525	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 110.50%#			
4) Phenol-d6	2.801	99	77	5.297	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 105.94%			
8) Nitrobenzene-d5	3.378	82	59	5.266	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 210.64%#			
14) 2-Fluorobiphenyl	4.590	172	194M6	6.209	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 248.36%#			
20) 2,4,6-Tribromophenol	0.000	330	0	0.000	ng/ml	
Spiked Amount 5.000	Range 15 - 110		Recovery = 0.00%#			
29) 4-Terphenyl-d14	7.168	244	142	5.562	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 222.48%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	2.864	93	70	5.339	ng/ml	85
6) n-nitrosodi-n-propylamine	3.292	70	46	5.733	ng/ml#	52
7) Hexachloroethane	0.000		0	N.D.		
10) Naphthalene	3.864	128	248	5.636	ng/ml#	73
11) Hexachlorobutadiene	3.961	225	43	5.717	ng/ml#	19
12) 2-Methylnaphthalene	4.334	142	151	5.487	ng/ml	99
13) 1-Methylnaphthalene	4.401	142	142	5.571	ng/ml	98
15) 2-Chloronaphthalene	4.662	162	149	5.465	ng/ml	98
16) Acenaphthylene	4.942	152	190	4.834	ng/ml#	56

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : IL1.D
Acq On : 17 Sep 2020 05:40 pm
Operator : SV125:dv
Sample : IL1,32,,0.005
Misc : wg1411680,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 18 11:11:10 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:11:08 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\200917LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Acenaphthene	5.062	153	159	5.801	ng/ml	97
19) Fluorene	5.419	166	153	5.735	ng/ml	99
22) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
23) Hexachlorobenzene	5.802	284	52	5.664	ng/ml#	36
24) Pentachlorophenol	0.000		0	N.D.		
25) Phenanthrene	6.074	178	260M6	6.179	ng/ml	
26) Anthracene	6.109	178	205	5.362	ng/ml#	63
27) Fluoranthene	6.891	202	224	5.544	ng/ml#	71
28) Pyrene	7.043	202	227	5.513	ng/ml	97
31) Benzo[a]anthracene	7.872	228	532	8.119	ng/ml	97
32) Chrysene	7.889	228	209	5.550	ug/ml	100
33) Bis(2-ethylhexyl)phtha...	7.928	149	211	11.782	ng/ml	97
35) Benzo[b]fluoranthene	8.705	252	186	5.342	ng/ml#	54
36) Benzo[k]fluoranthene	8.730	252	158	5.066	ng/ml#	54
37) Benzo[a]pyrene	9.004	252	140	5.244	ng/ml#	54
38) Indeno[1,2,3-cd]pyrene	10.243	276	154	5.349	ng/ml#	36
39) Dibenzo[a,h]anthracene	10.283	278	148	5.084	ng/ml#	40
40) Benzo[g,h,i]perylene	10.569	276	177	5.430	ng/ml#	32

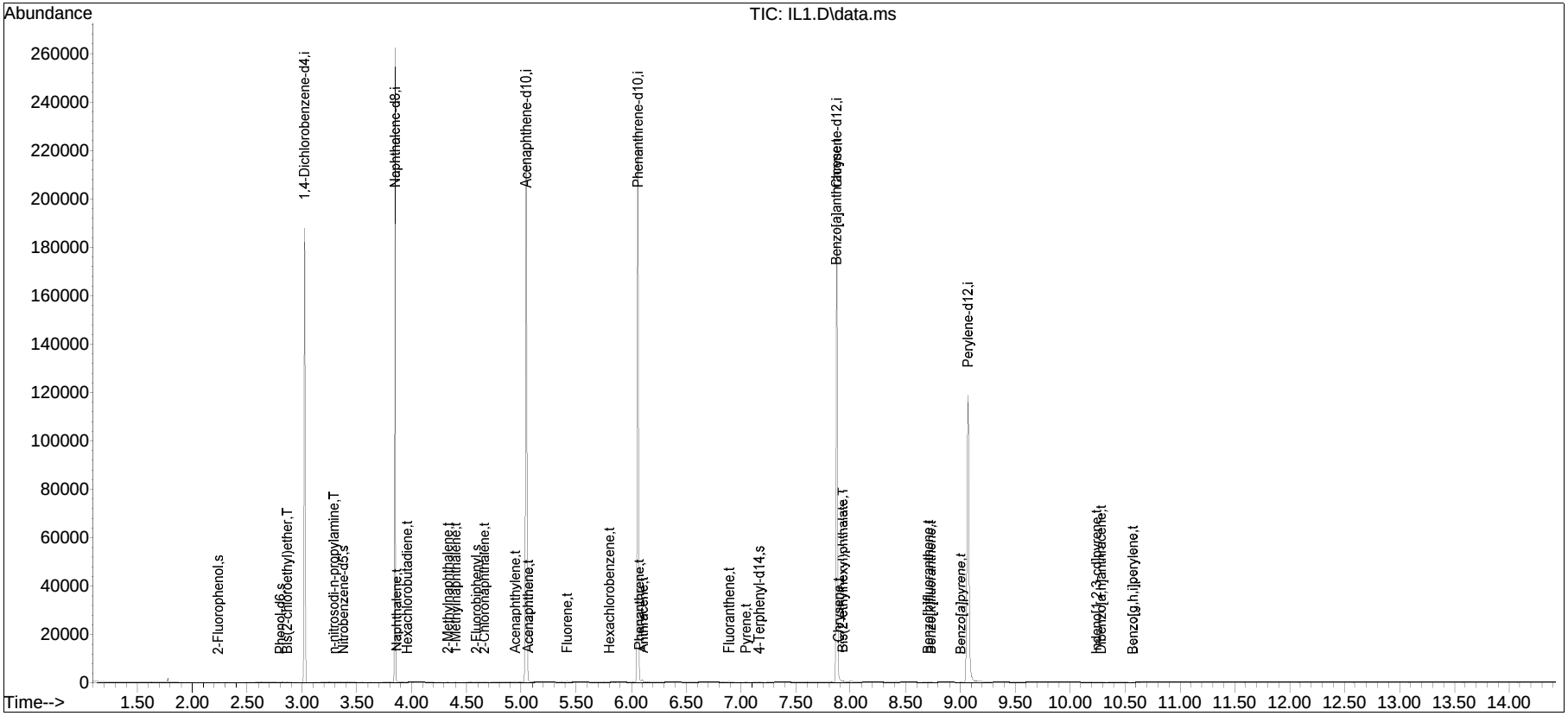
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : IL1.D
Acq On : 17 Sep 2020 05:40 pm
Operator : SV125:dv
Sample : IL1,32,,0.005
Misc : wg1411680,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 18 11:11:10 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:11:08 2020
Response via : Initial Calibration

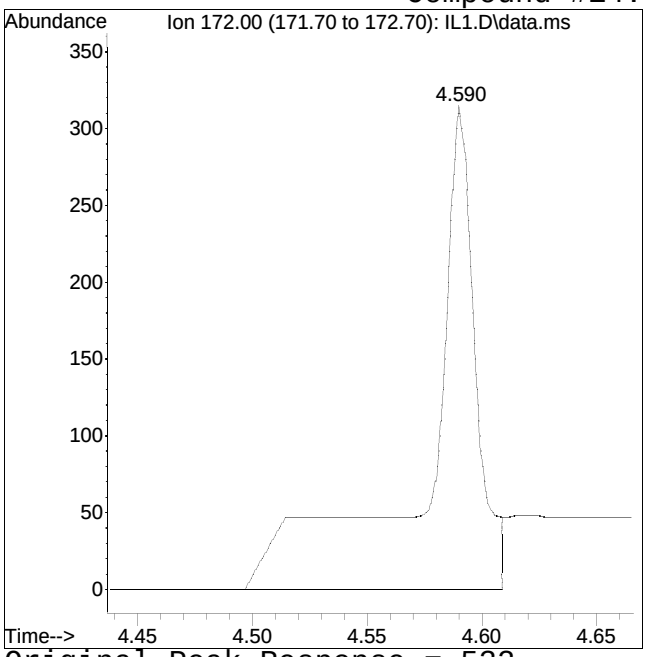
Sub List : Default - All compounds listedical\IL7.D•



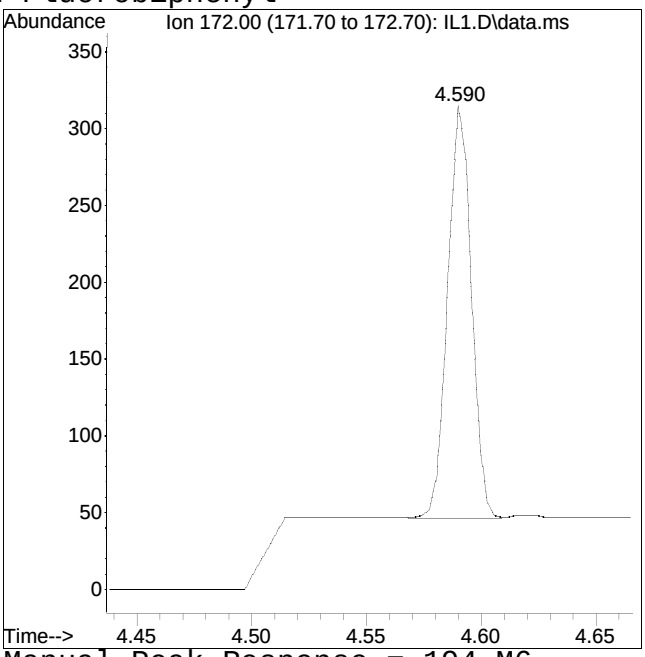
Manual Integration Report

Data Path : I:\8270SIM\SV125\200917LVIQMethod : SIM-LVI_200917_sv125.M
Data File : IL1.D Operator : SV125:dv
Date Inj'd : 9/17/2020 5:40 pm Instrument : SV125
Sample : IL1,32,,0.005 Quant Date : 9/18/2020 11:11 am

Compound #14: 2-Fluorobiphenyl



Original Peak Response = 532



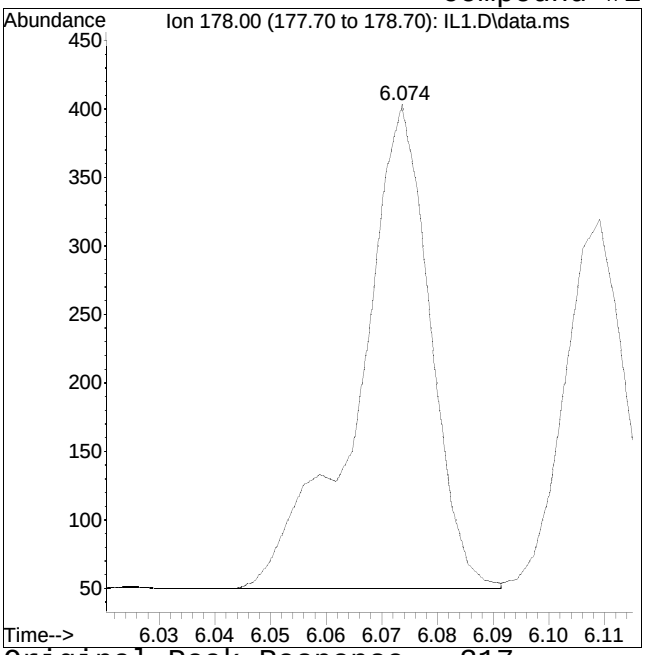
Manual Peak Response = 194 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

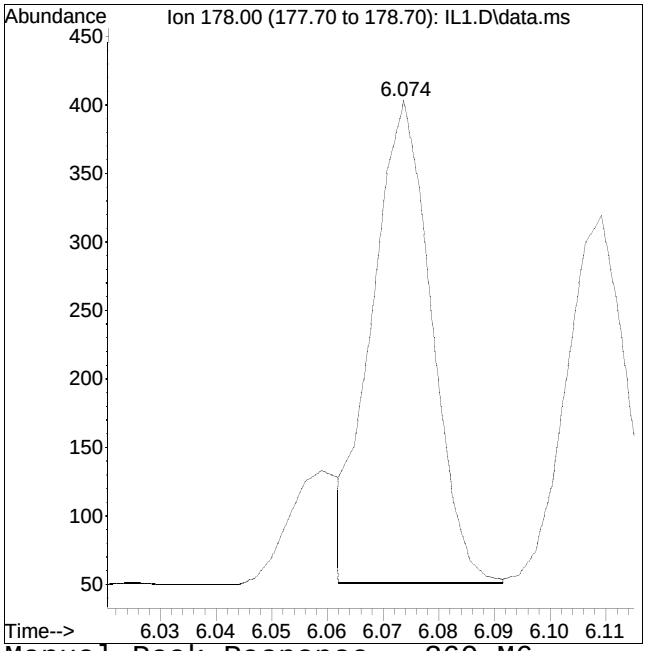
Manual Integration Report

Data Path : I:\8270SIM\SV125\200917LVIQMethod : SIM-LVI_200917_sv125.M
Data File : IL1.D Operator : SV125:dv
Date Inj'd : 9/17/2020 5:40 pm Instrument : SV125
Sample : IL1,32,,0.005 Quant Date : 9/18/2020 11:11 am

Compound #25: Phenanthrene



Original Peak Response = 317



Manual Peak Response = 260 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : ICV.D
Acq On : 17 Sep 2020 05:59 pm
Operator : SV125:dv
Sample : CQICV,32,,1.0
Misc : wg1411680,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 18 11:15:22 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:15:20 2020
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
2	T	1,4-Dioxane	0.497	0.460	7.4	95	0.00
3	s	2-Fluorophenol	1.036	1.002	3.3	91	0.00
4	s	Phenol-d6	1.206	1.100	8.8	86	0.00
5	T	Bis(2-chloroethyl)ether	1.088	1.074	1.3	93	0.00
6	T	n-nitrosodi-n-propylamine	0.666	0.633	5.0	91	0.00
7	t	Hexachloroethane	0.479	0.455	5.0	91	0.00
8	s	Nitrobenzene-d5	0.930	0.822	11.6	85	0.00
9	i	Naphthalene-d8	1.000	1.000	0.0	95	0.00
10	t	Naphthalene	1.044	1.008	3.4	92	0.00
11	t	Hexachlorobutadiene	0.178	0.169	5.1	90	0.00
12	t	2-Methylnaphthalene	0.653	0.639	2.1	92	0.00
13	t	1-Methylnaphthalene	0.605	0.588	2.8	91	0.00
14	s	2-Fluorobiphenyl	0.741	0.694	6.3	88	0.00
15	t	2-Chloronaphthalene	0.647	0.618	4.5	90	0.00
16	t	Acenaphthylene	0.933	0.894	4.2	89	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	94	0.00
18	t	Acenaphthene	1.399	1.350	3.5	90	0.00
19	t	Fluorene	1.362	1.330	2.3	91	0.00
20	s	2,4,6-Tribromophenol	0.167	0.154	7.8	83	0.00
21	i	Phenanthrene-d10	1.000	1.000	0.0	93	0.00
22	T	4,6-Dinitro-o-cresol	*1000.000	781.834	21.8	83	0.00
23	t	Hexachlorobenzene	0.245	0.229	6.5	87	0.00
24	t	Pentachlorophenol	*1000.000	971.060	2.9	87	0.00
25	t	Phenanthrene	1.124	1.069	4.9	90	0.00
26	t	Anthracene	1.021	0.985	3.5	88	0.00
27	t	Fluoranthene	1.079	1.028	4.7	88	0.00
28	t	Pyrene	1.100	1.046	4.9	87	0.00
29	s	4-Terphenyl-d14	0.682	0.624	8.5	82	0.00
30	i	Chrysene-d12	1.000	1.000	0.0	90	0.00
31	t	Benzo[a]anthracene	*1000.000	878.437	12.2	84	0.00
32	t	Chrysene	1.272	1.234	3.0	87	0.00
33	T	Bis(2-ethylhexyl)phthalate	0.605	0.474	21.7	85	0.00
34	i	Perylene-d12	1.000	1.000	0.0	89	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : ICV.D
Acq On : 17 Sep 2020 05:59 pm
Operator : SV125:dv
Sample : CQICV,32,,1.0
Misc : wg1411680,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 18 11:15:22 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:15:20 2020
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
35 t	Benzo[b]fluoranthene	1.241	1.191	4.0	88	0.00
36 t	Benzo[k]fluoranthene	1.112	1.088	2.2	82	0.00
37 t	Benzo[a]pyrene	0.952	0.907	4.7	85	0.00
38 t	Indeno[1,2,3-cd]pyrene	1.026	0.933	9.1	85	-0.01
39 t	Dibenzo[a,h]anthracene	1.038	1.050	-1.2	85	0.00
40 t	Benzo[g,h,i]perylene	1.162	1.115	4.0	85	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : ICV.D
Acq On : 17 Sep 2020 05:59 pm
Operator : SV125:dv
Sample : CQICV,32,,1.0
Misc : wg1411680,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 18 11:15:22 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:15:20 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\200917LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	3.022	152	47584	4000.000	ng/ml	0.00
Standard Area 1 = 49673			Recovery = 95.79%			
9) Naphthalene-d8	3.849	136	168129	4000.000	ng/ml #	0.00
Standard Area 1 = 176534			Recovery = 95.24%			
17) Acenaphthene-d10	5.043	164	79664	4000.000	ng/ml	0.00
Standard Area 1 = 85067			Recovery = 93.65%			
21) Phenanthrene-d10	6.058	188	151884	4000.000	ng/ml #	0.00
Standard Area 1 = 164154			Recovery = 92.53%			
30) Chrysene-d12	7.874	240	125420	4000.000	ng/ml #	0.00
Standard Area 1 = 139210			Recovery = 90.09%			
34) Perylene-d12	9.065	264	123045	4000.000	ng/ml	0.00
Standard Area 1 = 138155			Recovery = 89.06%			
System Monitoring Compounds						
3) 2-Fluorophenol	2.234	112	11920	967.095	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 19341.90%#			
4) Phenol-d6	2.799	99	13083	911.962	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 18239.24%#			
8) Nitrobenzene-d5	3.377	82	9783	884.678	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 35387.12%#			
14) 2-Fluorobiphenyl	4.591	172	29187	936.686	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 37467.44%#			
20) 2,4,6-Tribromophenol	5.584	330	3073	925.227	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 18504.54%#			
29) 4-Terphenyl-d14	7.167	244	23691	914.803	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 36592.12%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.322	88	5473	926.110	ng/ml#	100
5) Bis(2-chloroethyl)ether	2.859	93	12781	987.757	ng/ml#	83
6) n-nitrosodi-n-propylamine	3.289	70	7525	950.278	ng/ml	94
7) Hexachloroethane	3.347	117	5417	950.240	ng/ml	93
10) Naphthalene	3.862	128	42362	965.378	ng/ml#	82
11) Hexachlorobutadiene	3.962	225	7104	947.087	ng/ml	99
12) 2-Methylnaphthalene	4.332	142	26851	978.316	ng/ml	100
13) 1-Methylnaphthalene	4.399	142	24726	972.695	ng/ml	100
15) 2-Chloronaphthalene	4.660	162	25980	955.546	ng/ml	99
16) Acenaphthylene	4.944	152	37568	958.312	ng/ml	99
18) Acenaphthene	5.063	153	26895	965.144	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : ICV.D
Acq On : 17 Sep 2020 05:59 pm
Operator : SV125:dv
Sample : CQICV,32,,1.0
Misc : wg1411680,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 18 11:15:22 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:15:20 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\200917LVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) Fluorene	5.417	166	26490	976.598	ng/ml	99
22) 4,6-Dinitro-o-cresol	5.460	198	2080	781.834	ng/ml	92
23) Hexachlorobenzene	5.801	284	8707	934.967	ng/ml	100
24) Pentachlorophenol	5.937	266	3278	971.060	ng/ml	99
25) Phenanthrene	6.075	178	40580	950.678	ng/ml	100
26) Anthracene	6.108	178	37420	964.827	ng/ml	100
27) Fluoranthene	6.890	202	39037	952.402	ng/ml	99
28) Pyrene	7.042	202	39699	950.515	ng/ml	98
31) Benzo[a]anthracene	7.868	228	33112	878.437	ng/ml#	81
32) Chrysene	7.891	228	38702	970.178	ug/ml	97
33) Bis(2-ethylhexyl)phtha...	7.927	149	14868	783.669	ng/ml	98
35) Benzo[b]fluoranthene	8.707	252	36633	959.692	ng/ml	99
36) Benzo[k]fluoranthene	8.729	252	33477	979.040	ng/ml	100
37) Benzo[a]pyrene	9.005	252	27893	952.946	ng/ml	100
38) Indeno[1,2,3-cd]pyrene	10.244	276	28694	908.991	ng/ml#	70
39) Dibenzo[a,h]anthracene	10.285	278	32310	1012.344	ng/ml#	68
40) Benzo[g,h,i]perylene	10.574	276	34308	959.955	ng/ml#	68

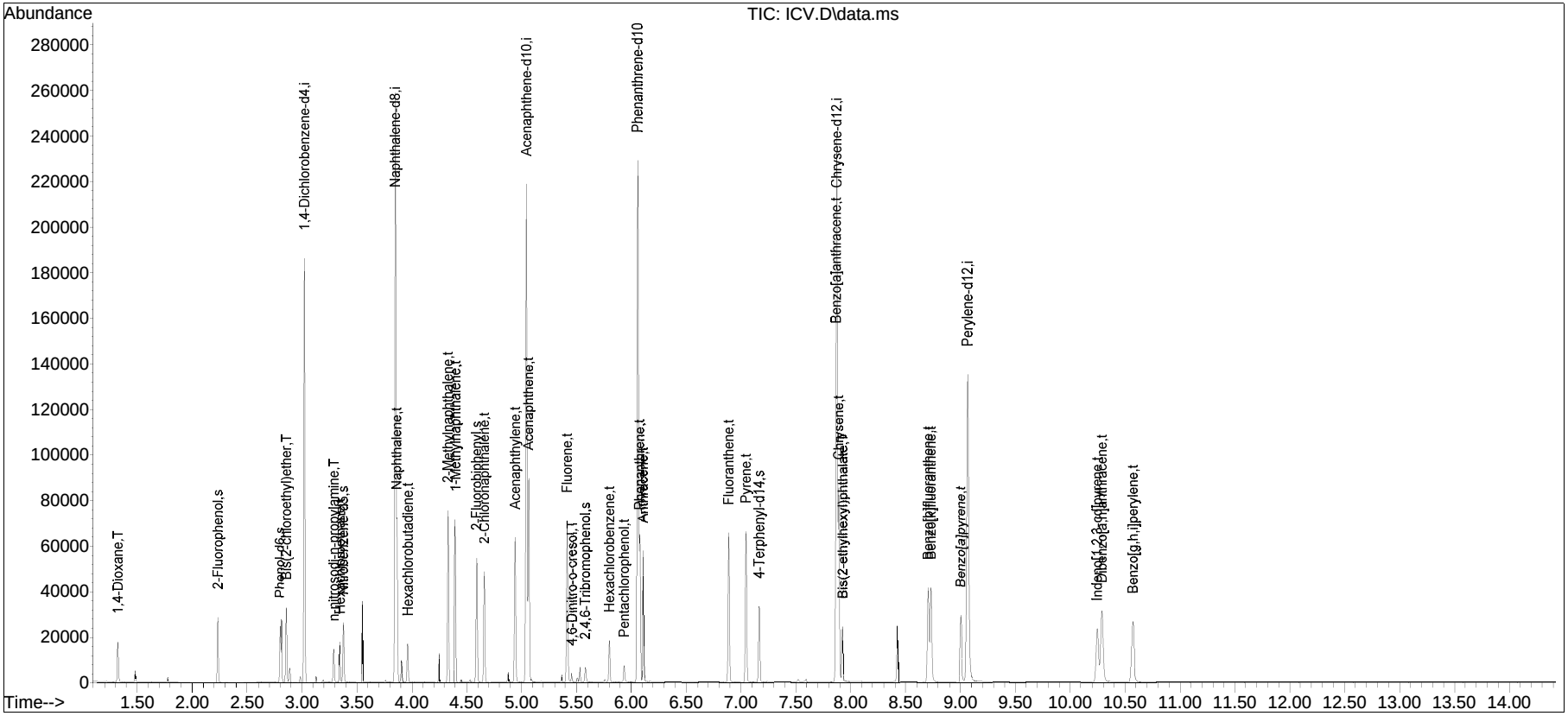
(#) = qualifier out of range (m) = manual integration (+) = signals summed

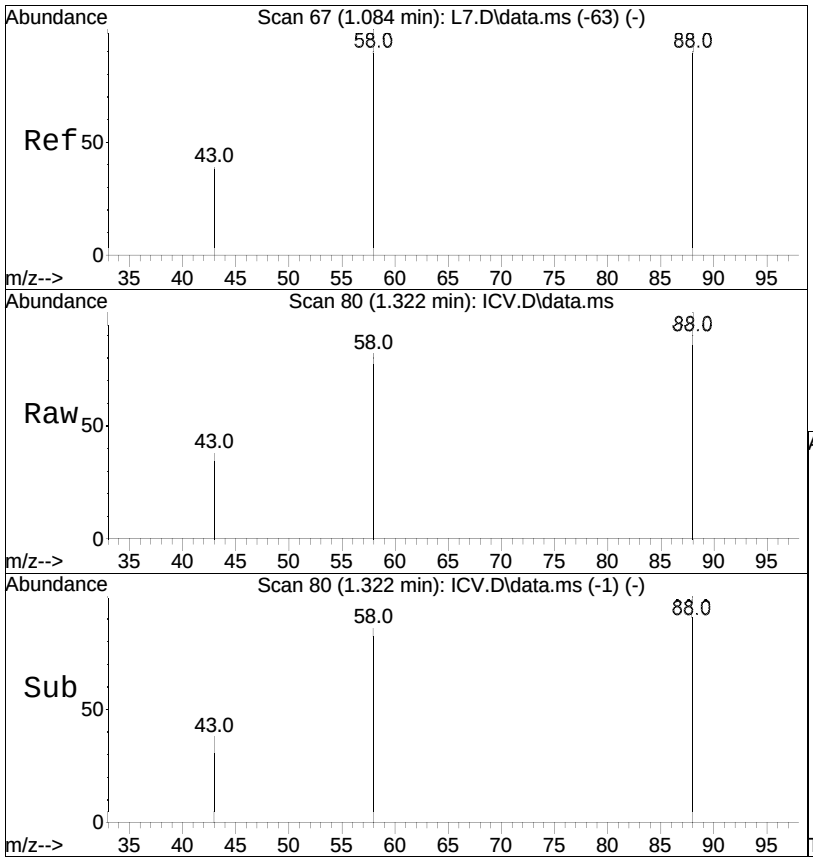
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\200917LVIical\
Data File : ICV.D
Acq On : 17 Sep 2020 05:59 pm
Operator : SV125:dv
Sample : CQICV,32,,1.0
Misc : wg1411680,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 18 11:15:22 2020
Quant Method : I:\8270SIM\SV125\200917LVIical\SIM-LVI_200917_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Sep 18 11:15:20 2020
Response via : Initial Calibration

Sub List : Default - All compounds listedical\IL7.D•

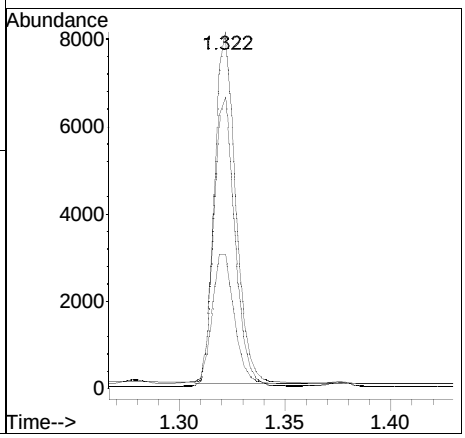


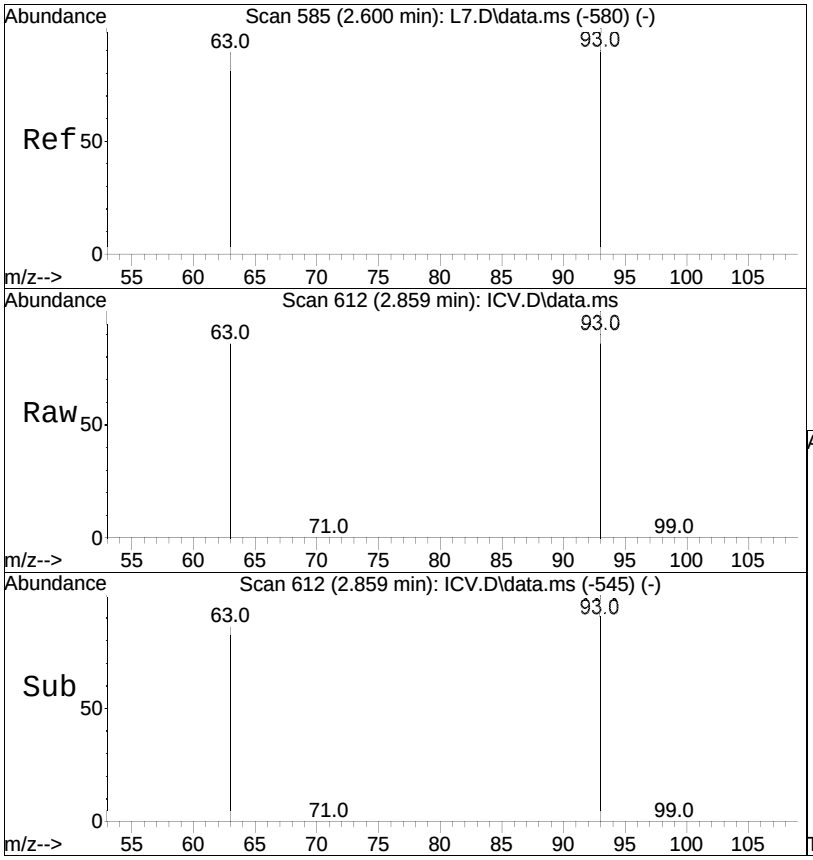


#2
1,4-Dioxane
Concen: 926.11 ng/ml
RT: 1.322 min Scan# 80
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 17 Sep 2020 05:59 pm

Tgt Ion: 88 Resp: 5473

Ion	Ratio	Lower	Upper
88	100		
58	83.4	0.0	0.0#
43	39.1	0.0	0.0#

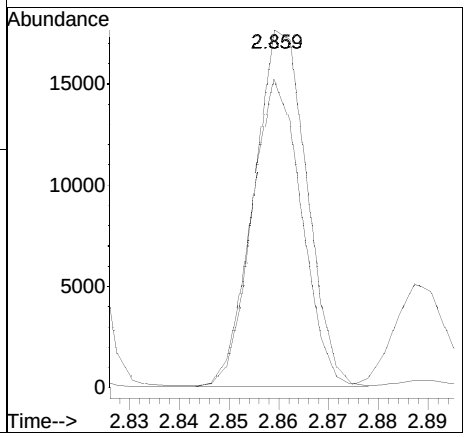


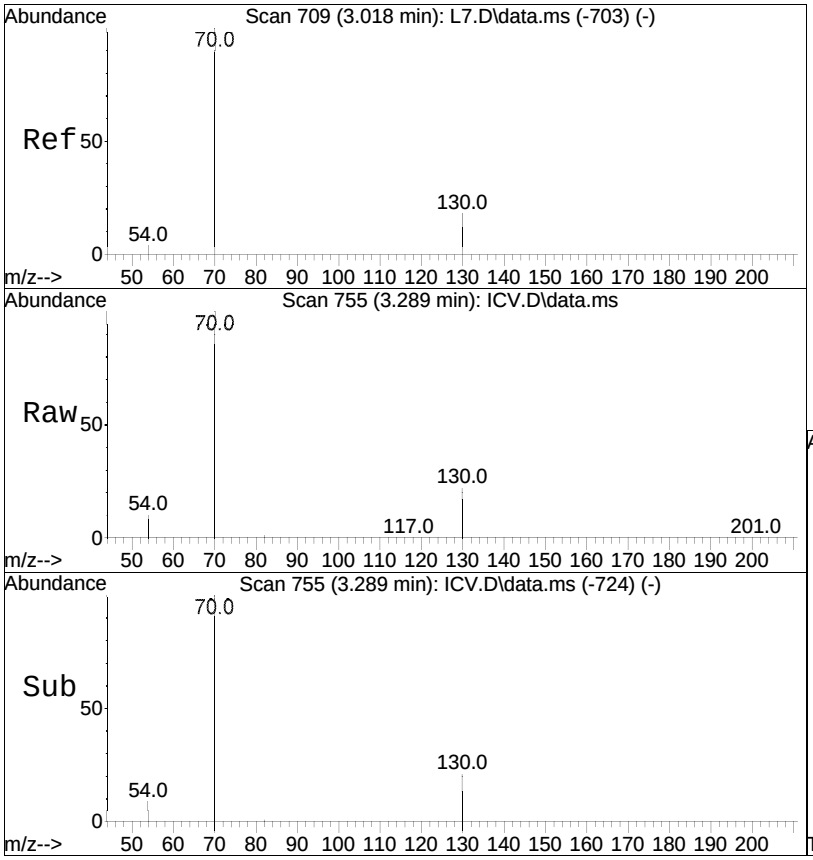


#5
Bis(2-chloroethyl)ether
Concen: 987.76 ng/ml
RT: 2.859 min Scan# 612
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 17 Sep 2020 05:59 pm

Tgt Ion: 93 Resp: 12781

Ion	Ratio	Lower	Upper
93	100		
63	83.1	55.1	82.7#

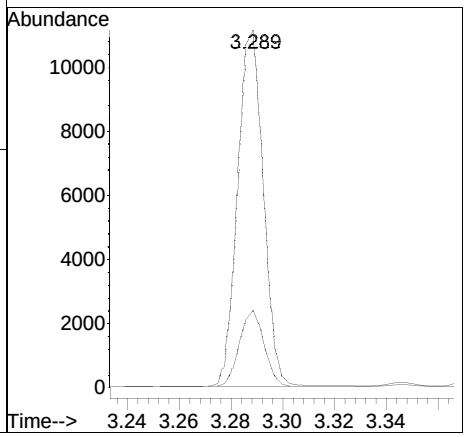


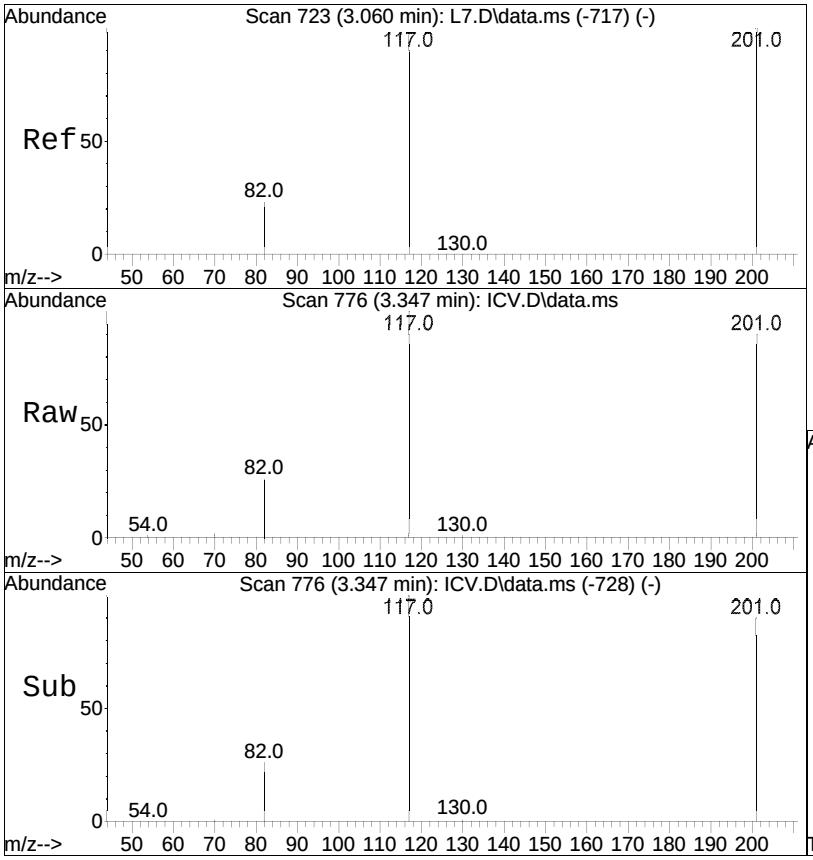


#6
n-nitrosodi-n-propylamine
Concen: 950.28 ng/ml
RT: 3.289 min Scan# 755
Delta R.T. 0.003 min
Lab File: ICV.D
Acq: 17 Sep 2020 05:59 pm

Tgt Ion: 70 Resp: 7525

Ion	Ratio	Lower	Upper
70	100		
130	20.5	18.9	28.3

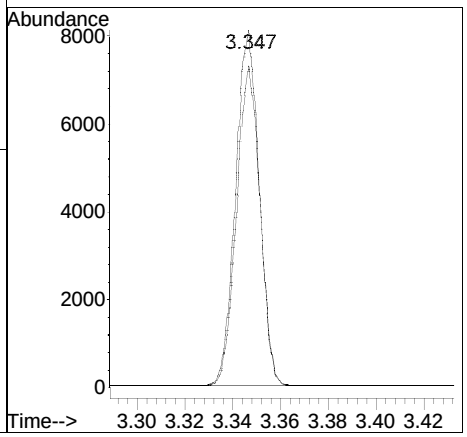


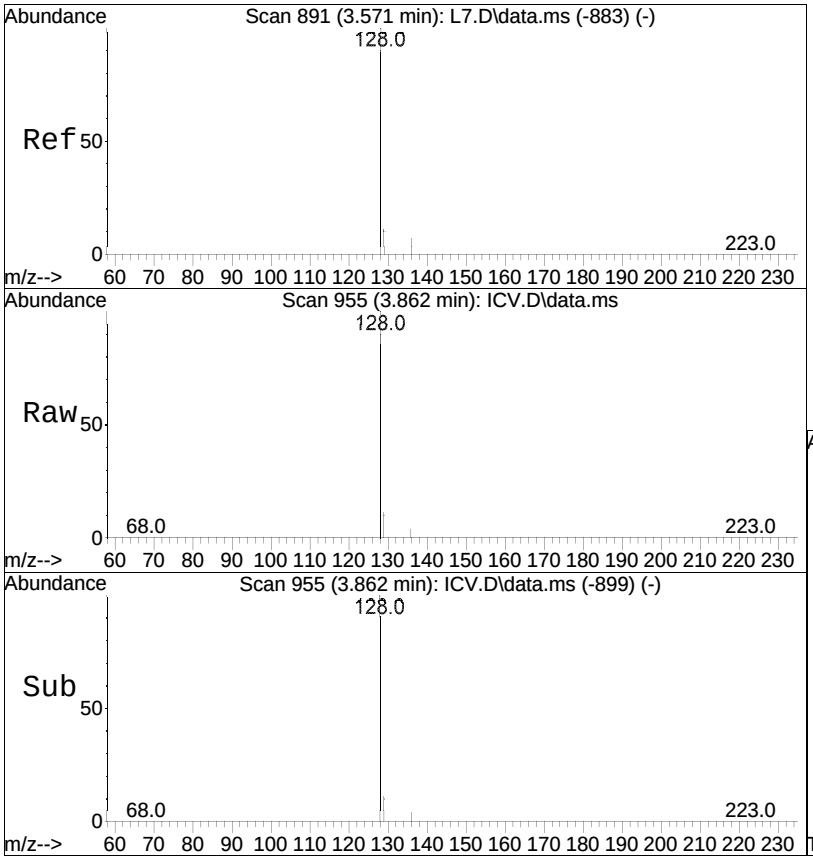


#7
Hexachloroethane
Concen: 950.24 ng/ml
RT: 3.347 min Scan# 776
Delta R.T. -0.000 min
Lab File: ICV.D
Acq: 17 Sep 2020 05:59 pm

Tgt Ion:117 Resp: 5417

Ion	Ratio	Lower	Upper
117	100		
201	90.1	78.0	117.0

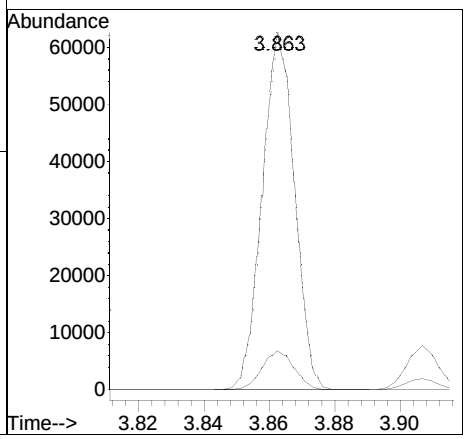


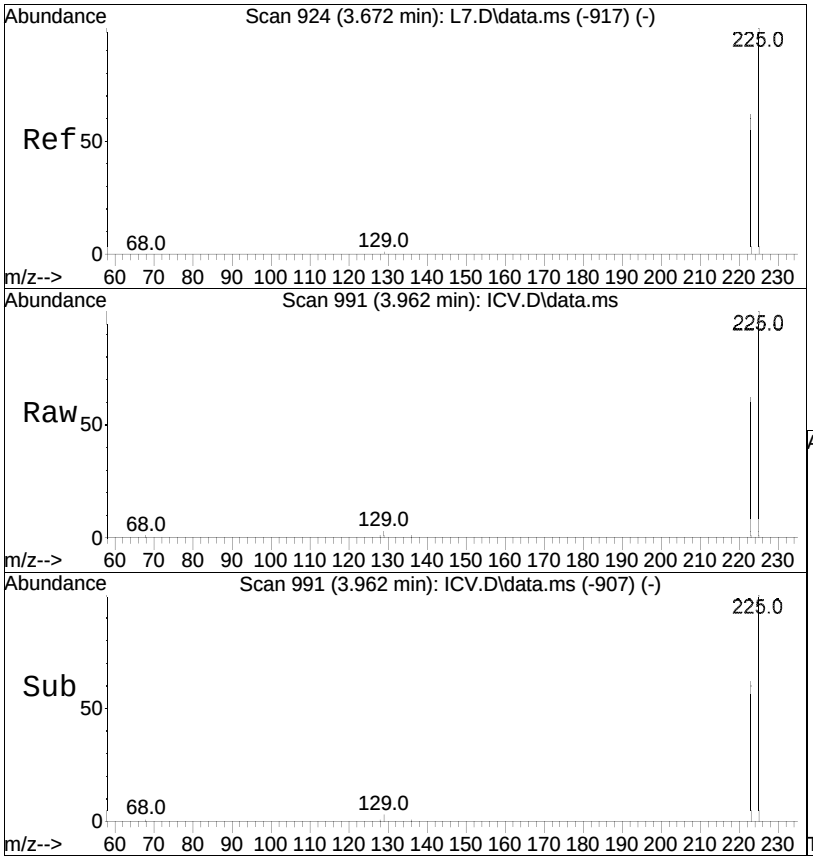


#10
Naphthalene
Concen: 965.38 ng/ml
RT: 3.862 min Scan# 955
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 17 Sep 2020 05:59 pm

Tgt Ion:128 Resp: 42362

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	0.0	10.6	16.0#

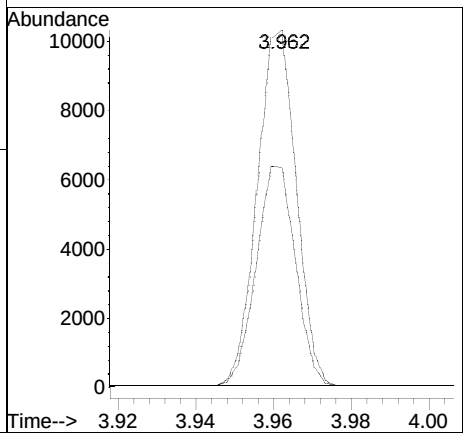


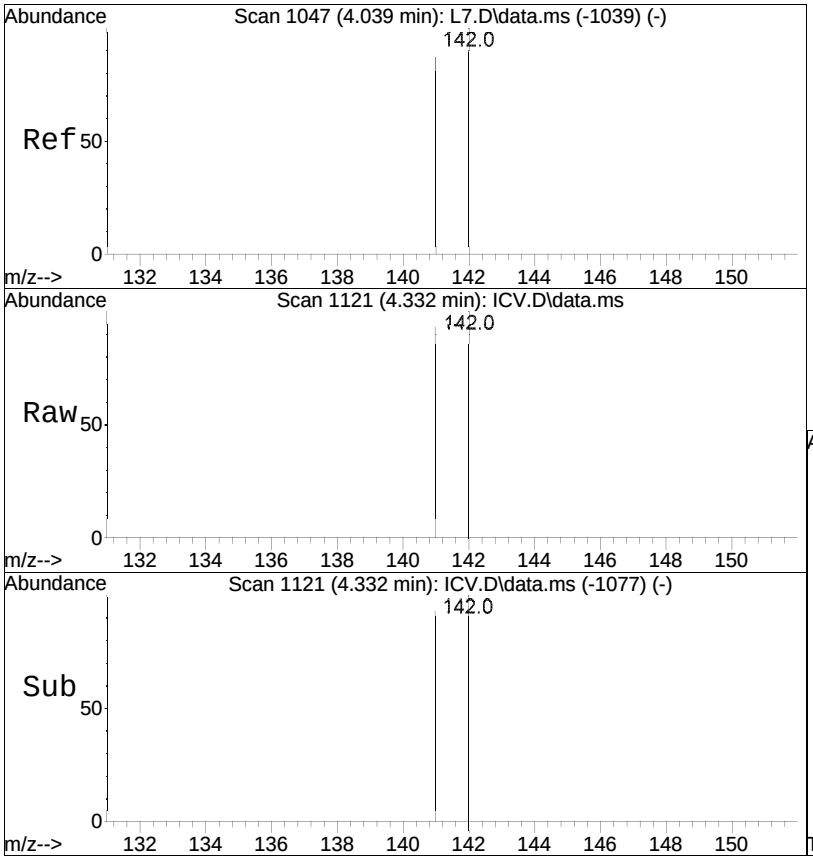


#11
Hexachlorobutadiene
Concen: 947.09 ng/ml
RT: 3.962 min Scan# 991
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 17 Sep 2020 05:59 pm

Tgt Ion:225 Resp: 7104

Ion	Ratio	Lower	Upper
225	100		
223	62.2	50.4	75.6

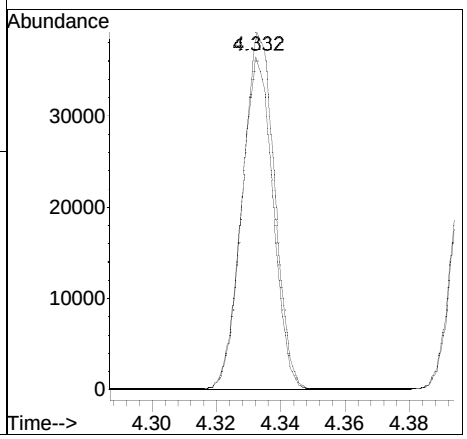


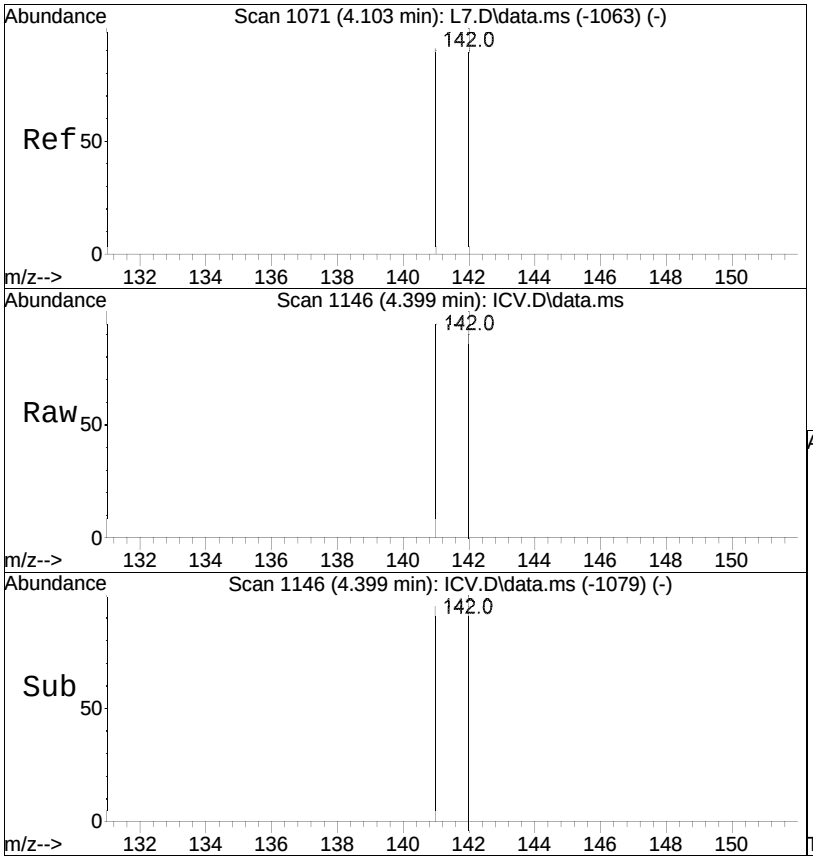


#12
2-Methylnaphthalene
Concen: 978.32 ng/ml
RT: 4.332 min Scan# 1121
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 17 Sep 2020 05:59 pm

Tgt Ion:142 Resp: 26851

Ion	Ratio	Lower	Upper
142	100		
141	91.8	73.0	109.6

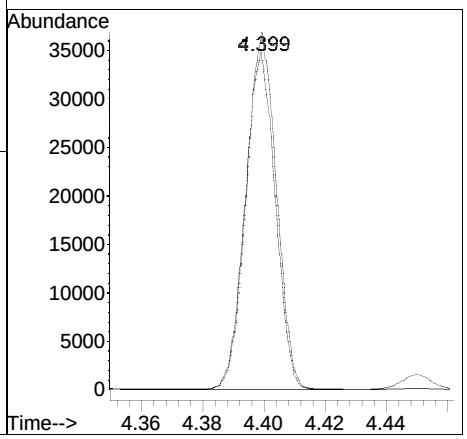


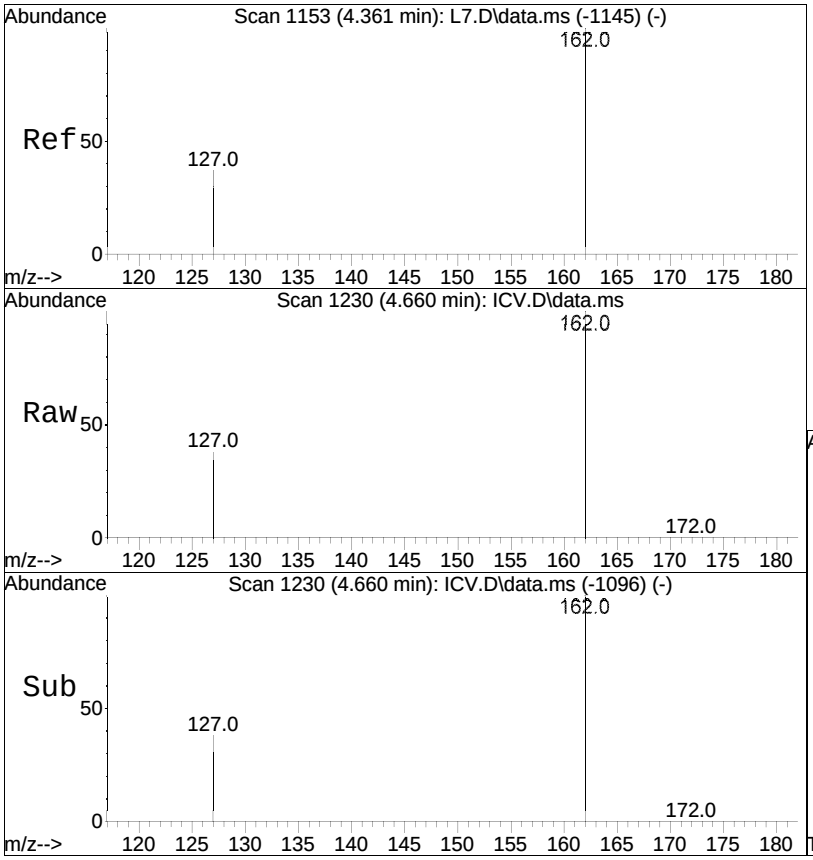


#13
1-Methylnaphthalene
Concen: 972.69 ng/ml
RT: 4.399 min Scan# 1146
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 17 Sep 2020 05:59 pm

Tgt Ion:142 Resp: 24726

Ion	Ratio	Lower	Upper
142	100		
141	94.7	75.6	113.4

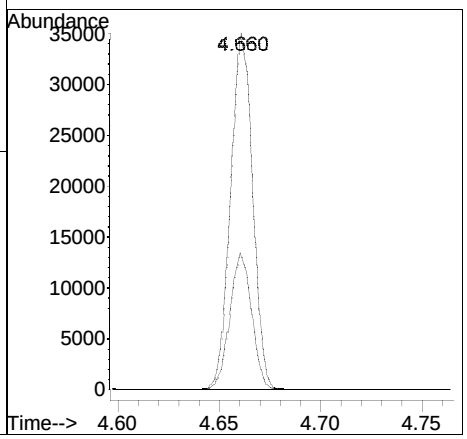


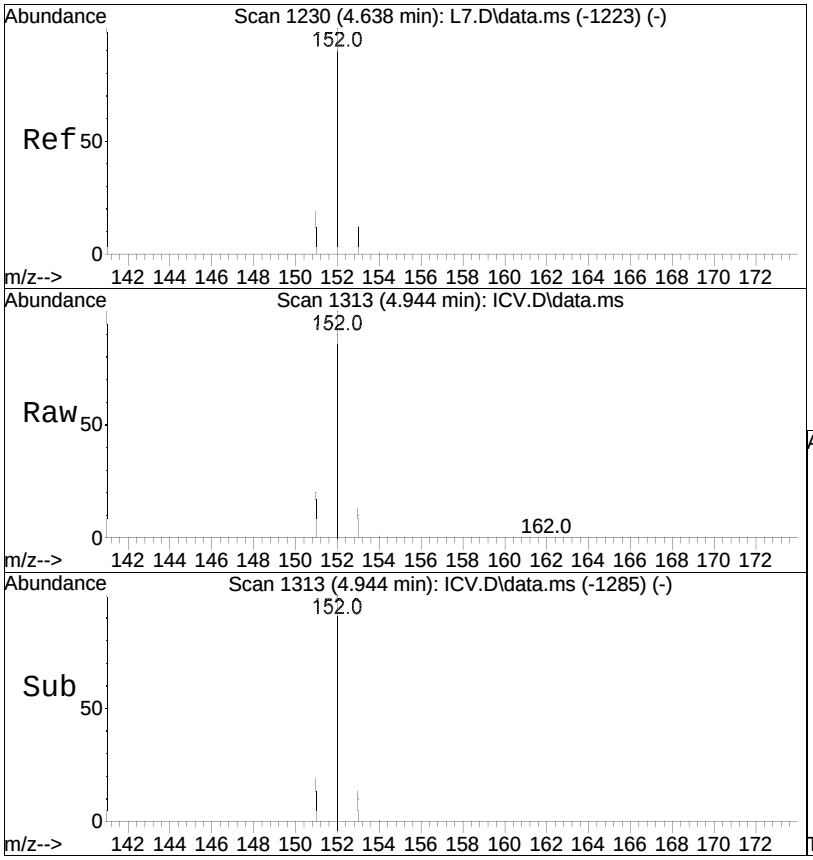


#15
2-Chloronaphthalene
Concen: 955.55 ng/ml
RT: 4.660 min Scan# 1230
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 17 Sep 2020 05:59 pm

Tgt Ion:162 Resp: 25980

Ion	Ratio	Lower	Upper
162	100		
127	38.0	29.8	44.6

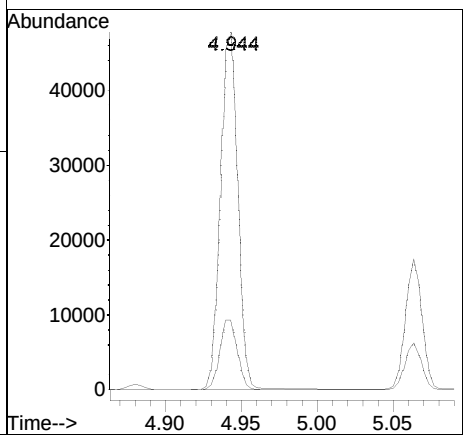


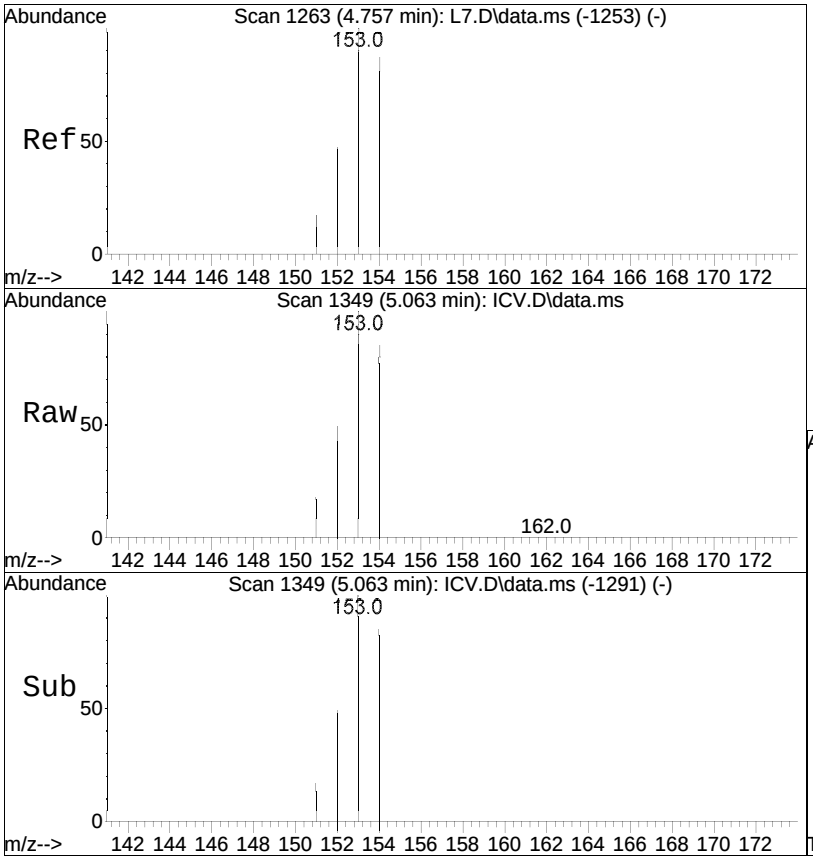


#16
Acenaphthylene
Concen: 958.31 ng/ml
RT: 4.944 min Scan# 1313
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 17 Sep 2020 05:59 pm

Tgt Ion:152 Resp: 37568

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.3	24.5

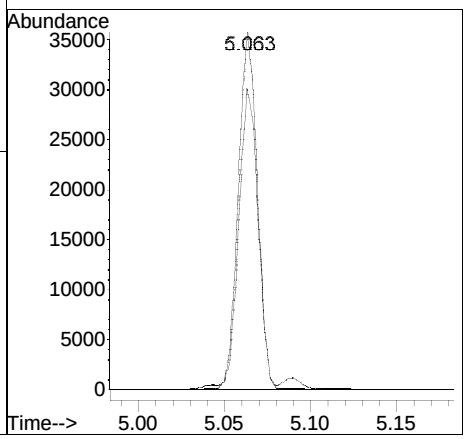


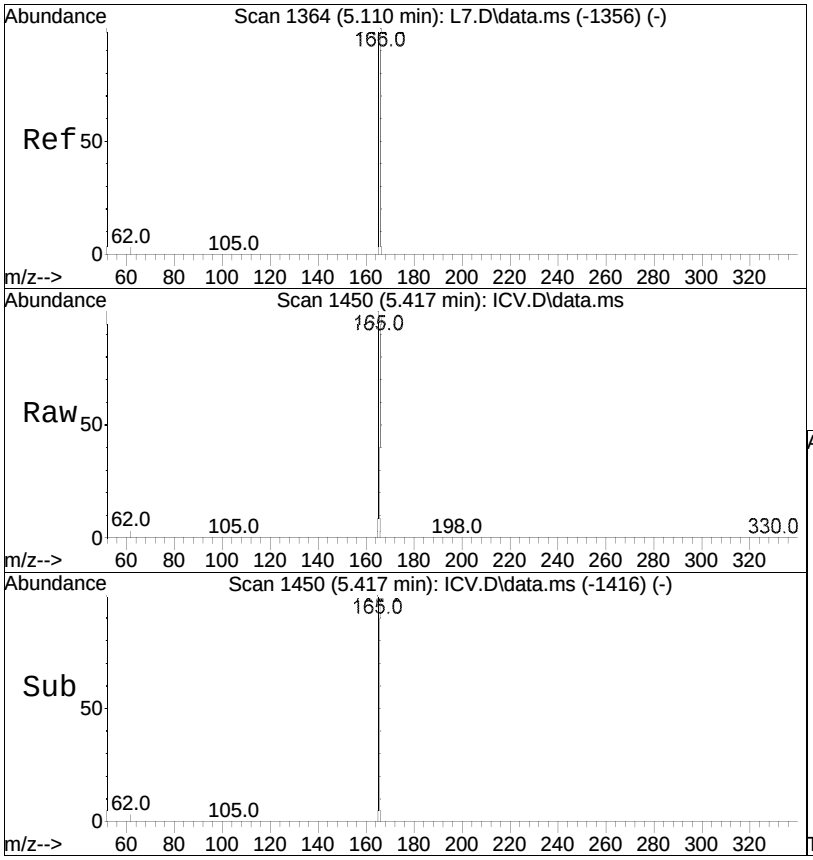


#18
Acenaphthene
Concen: 965.14 ng/ml
RT: 5.063 min Scan# 1349
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 17 Sep 2020 05:59 pm

Tgt Ion:153 Resp: 26895

Ion	Ratio	Lower	Upper
153	100		
154	86.4	69.8	104.8

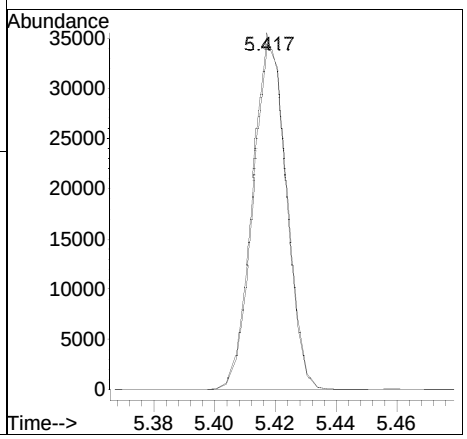


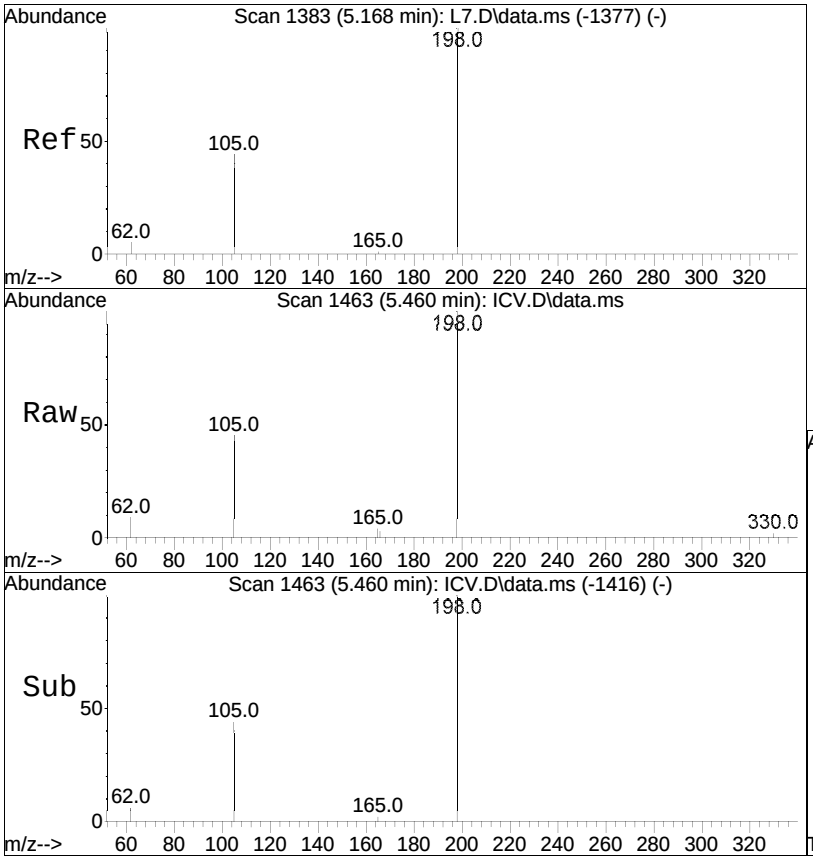


#19
Fluorene
Concen: 976.60 ng/ml
RT: 5.417 min Scan# 1450
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 17 Sep 2020 05:59 pm

Tgt Ion:166 Resp: 26490

Ion	Ratio	Lower	Upper
166	100		
165	101.9	80.9	121.3

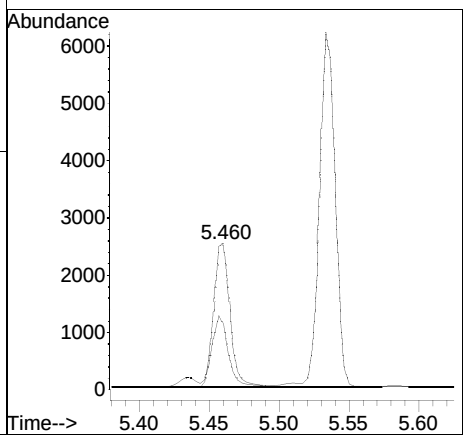


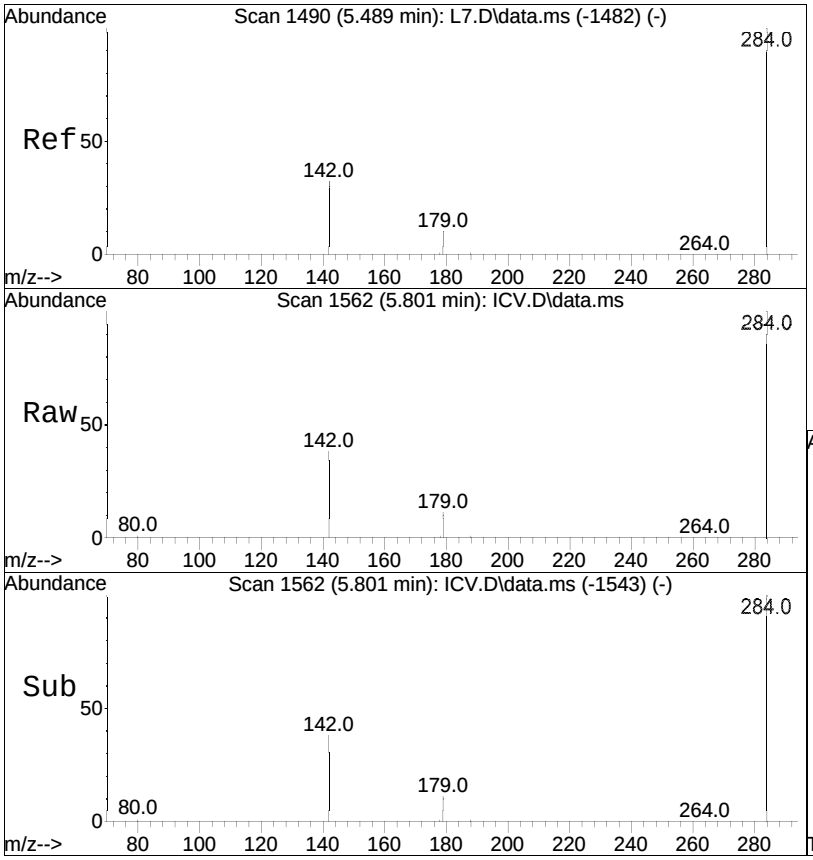


#22
4,6-Dinitro-o-cresol
Concen: 781.83 ng/ml
RT: 5.460 min Scan# 1463
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 17 Sep 2020 05:59 pm

Tgt Ion:198 Resp: 2080

Ion	Ratio	Lower	Upper
198	100		
105	46.8	33.4	50.0

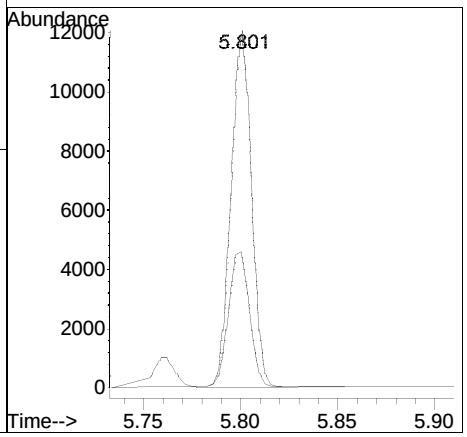


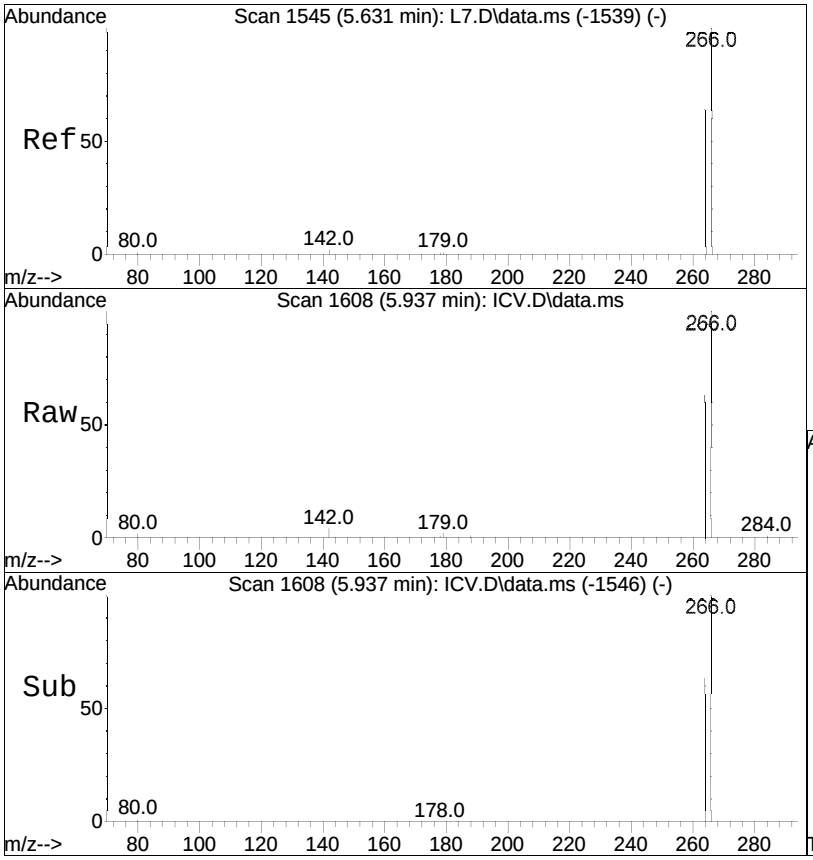


#23
Hexachlorobenzene
Concen: 934.97 ng/ml
RT: 5.801 min Scan# 1562
Delta R.T. -0.000 min
Lab File: ICV.D
Acq: 17 Sep 2020 05:59 pm

Tgt Ion:284 Resp: 8707

Ion	Ratio	Lower	Upper
284	100		
142	39.1	31.2	46.8

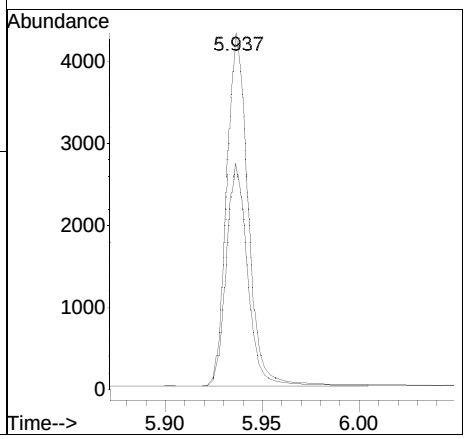


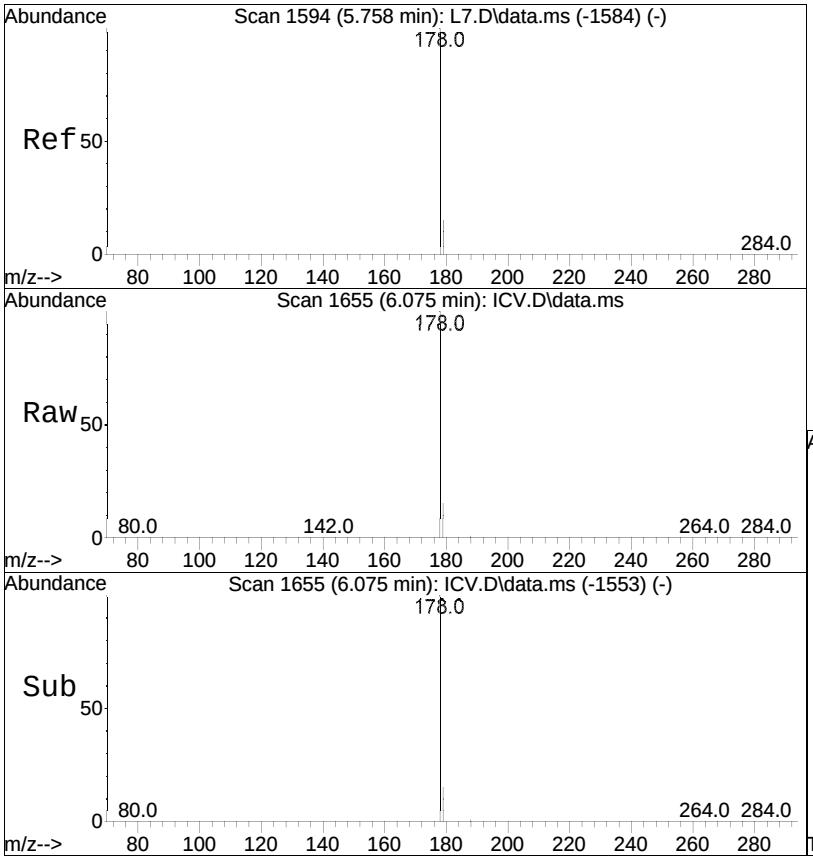


#24
Pentachlorophenol
Concen: 971.06 ng/ml
RT: 5.937 min Scan# 1608
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 17 Sep 2020 05:59 pm

Tgt Ion:266 Resp: 3278

Ion	Ratio	Lower	Upper
266	100		
264	63.2	50.9	76.3

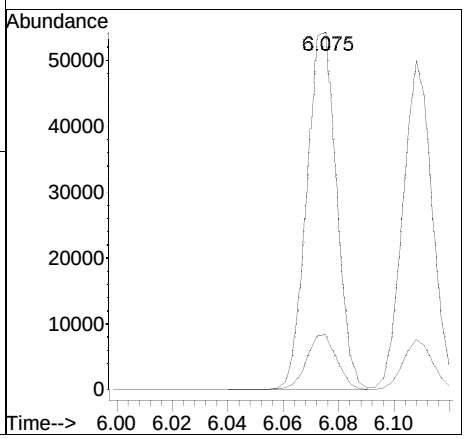


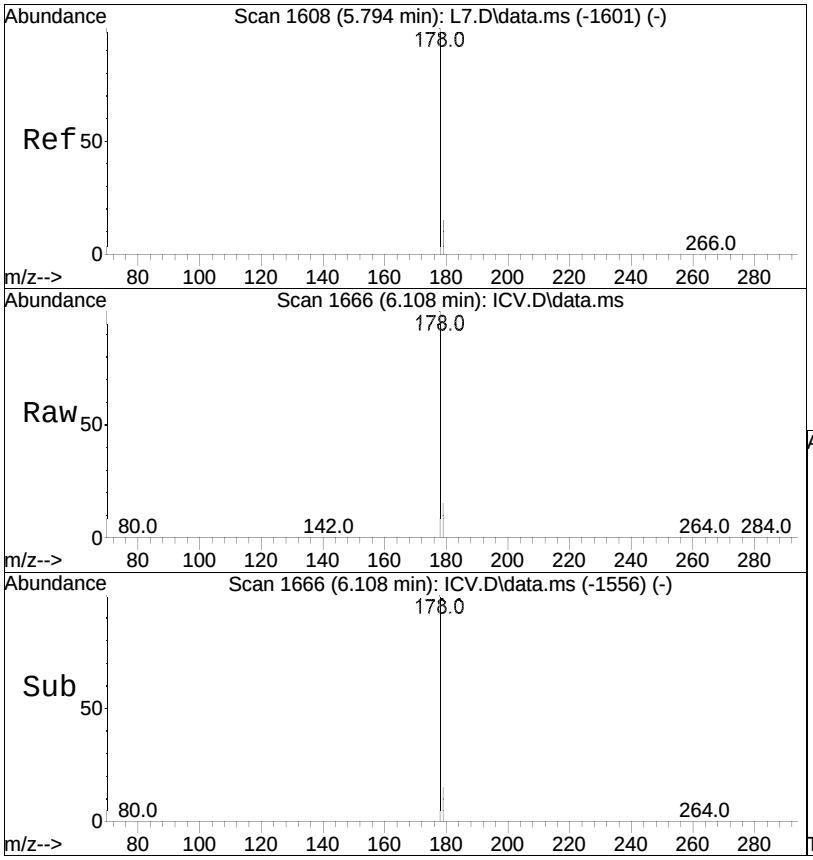


#25
Phenanthrene
Concen: 950.68 ng/ml
RT: 6.075 min Scan# 1655
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 17 Sep 2020 05:59 pm

Tgt Ion:178 Resp: 40580

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.5	18.7

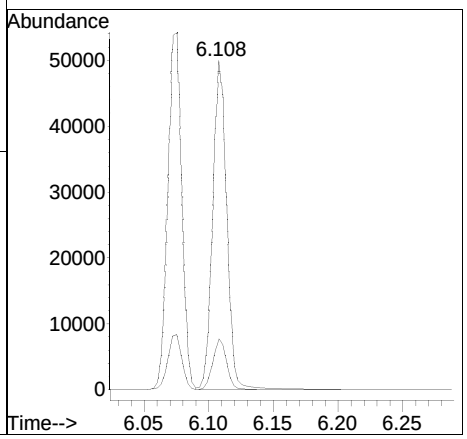


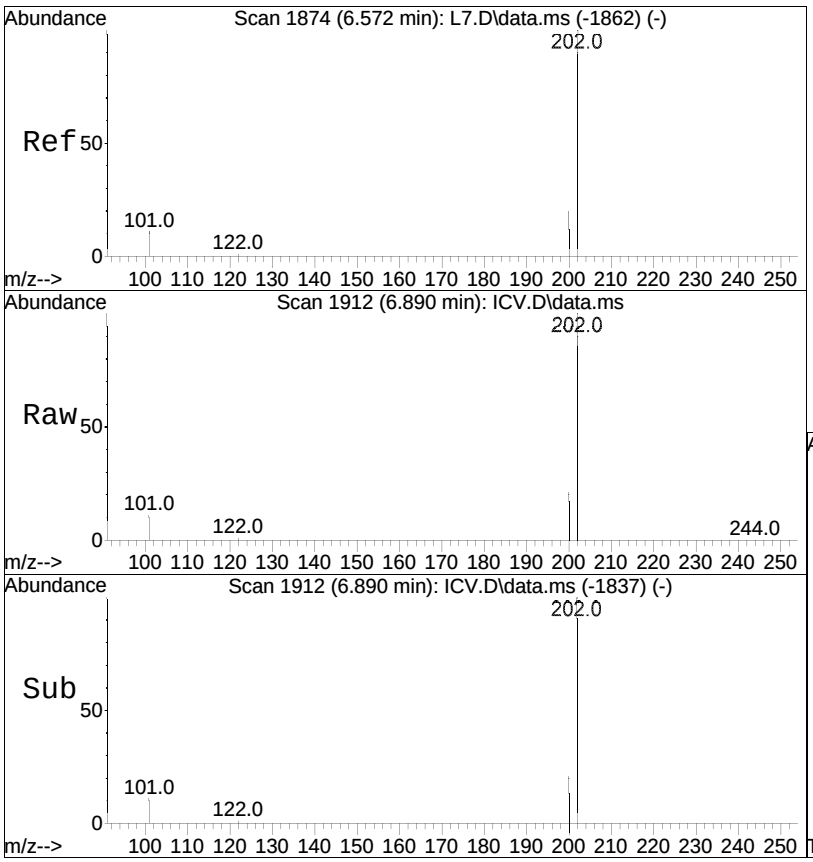


#26
Anthracene
Concen: 964.83 ng/ml
RT: 6.108 min Scan# 1666
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 17 Sep 2020 05:59 pm

Tgt Ion:178 Resp: 37420

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.2	18.4

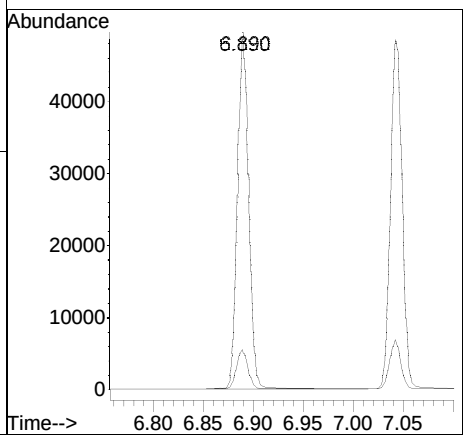


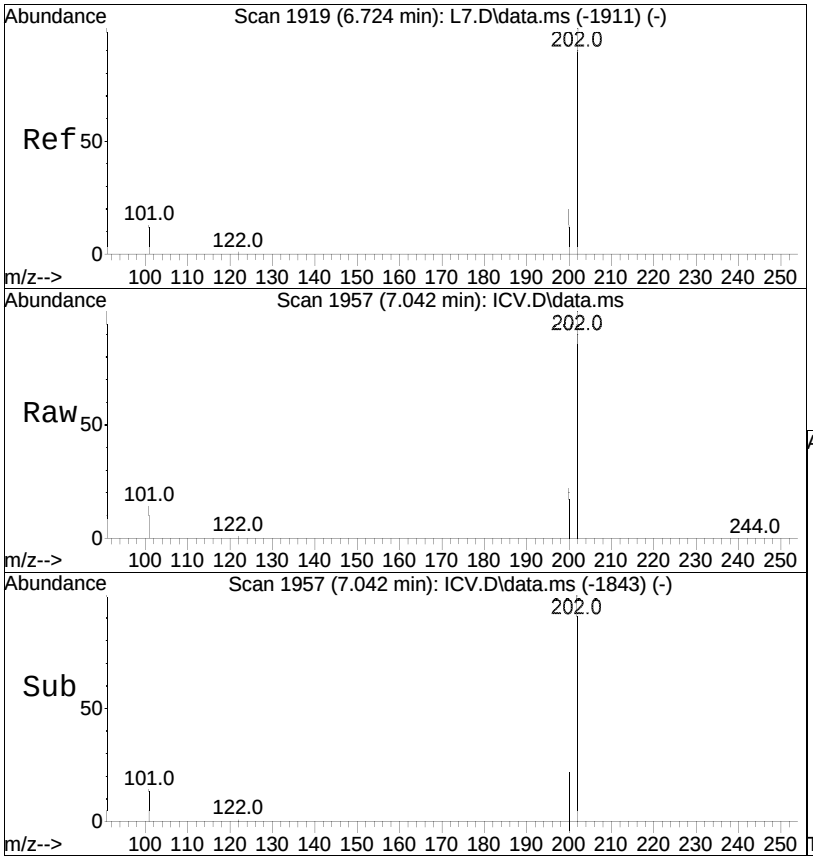


#27
Fluoranthene
Concen: 952.40 ng/ml
RT: 6.890 min Scan# 1912
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 17 Sep 2020 05:59 pm

Tgt Ion:202 Resp: 39037

Ion	Ratio	Lower	Upper
202	100		
101	11.3	8.9	13.3

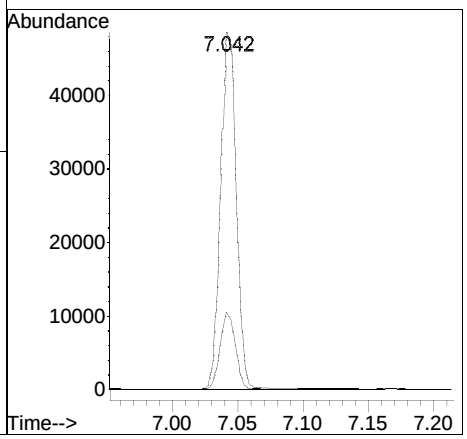


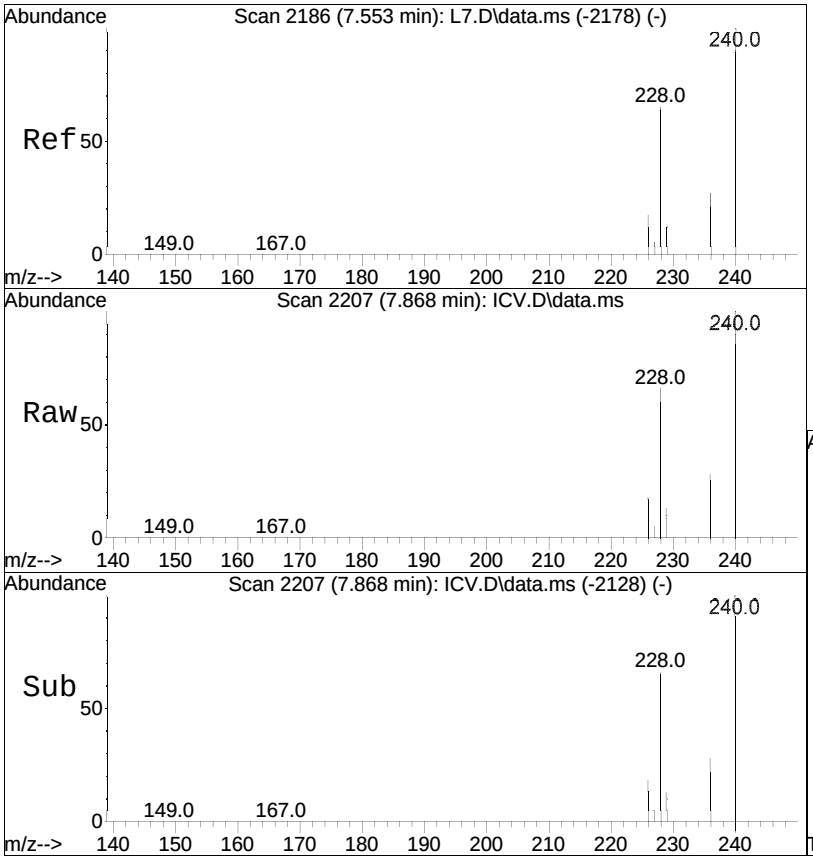


#28
Pyrene
Concen: 950.52 ng/ml
RT: 7.042 min Scan# 1957
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 17 Sep 2020 05:59 pm

Tgt Ion:202 Resp: 39699

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.6	26.4

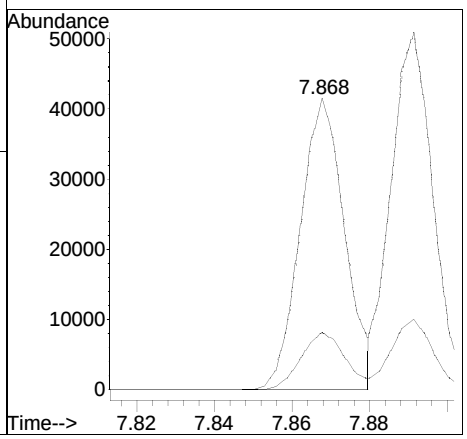


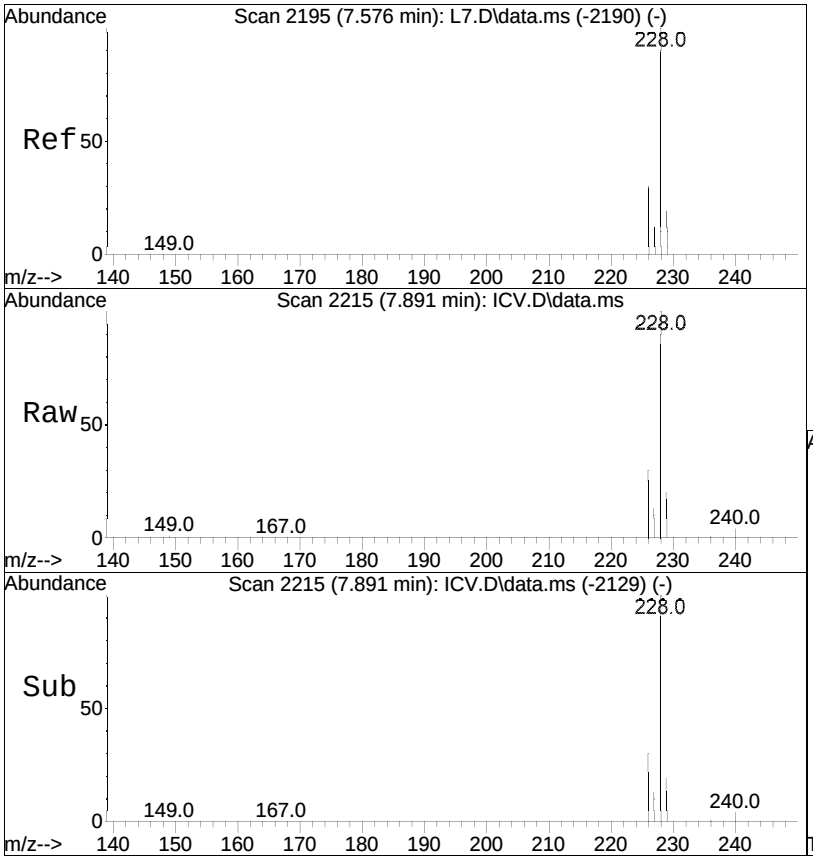


#31
Benzo[a]anthracene
Concen: 878.44 ng/ml
RT: 7.868 min Scan# 2207
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 17 Sep 2020 05:59 pm

Tgt Ion:228 Resp: 33112

Ion	Ratio	Lower	Upper
228	100		
229	19.6	24.1	36.1#

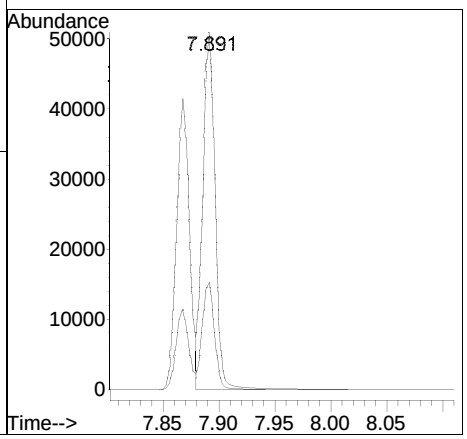


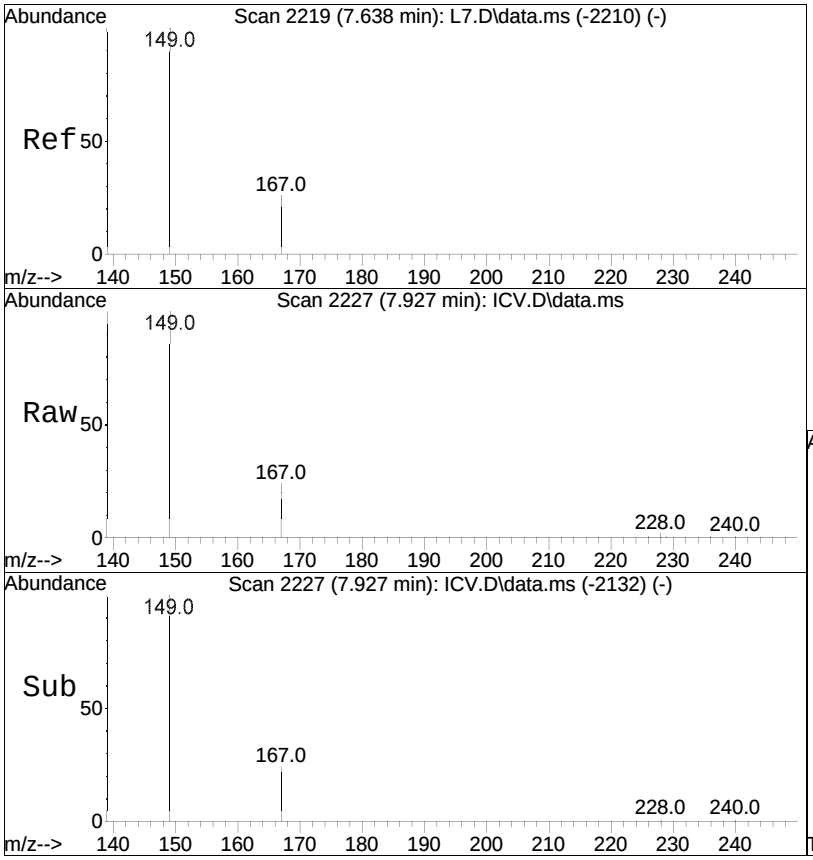


#32
Chrysene
Concen: 970.18 ug/ml
RT: 7.891 min Scan# 2215
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 17 Sep 2020 05:59 pm

Tgt Ion:228 Resp: 38702

Ion	Ratio	Lower	Upper
228	100		
226	30.1	25.4	38.0

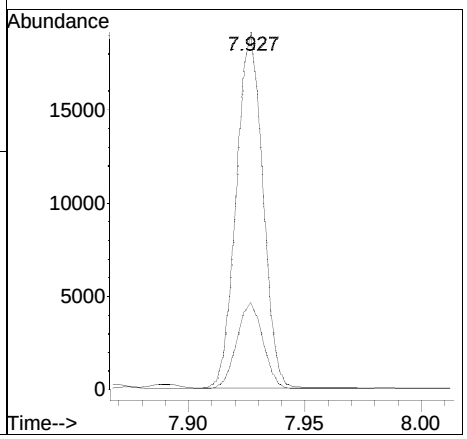


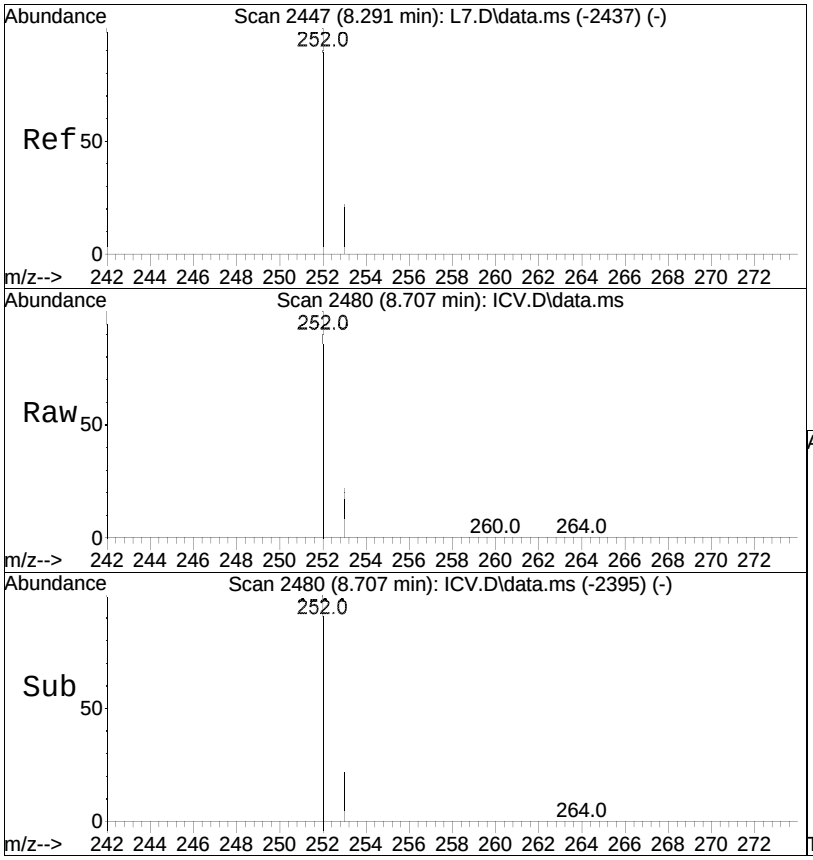


#33
Bis(2-ethylhexyl)phthalate
Concen: 783.67 ng/ml
RT: 7.927 min Scan# 2227
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 17 Sep 2020 05:59 pm

Tgt Ion:149 Resp: 14868

Ion	Ratio	Lower	Upper
149	100		
167	24.1	20.0	30.0

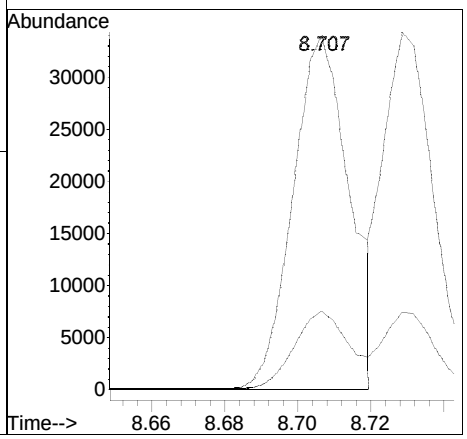


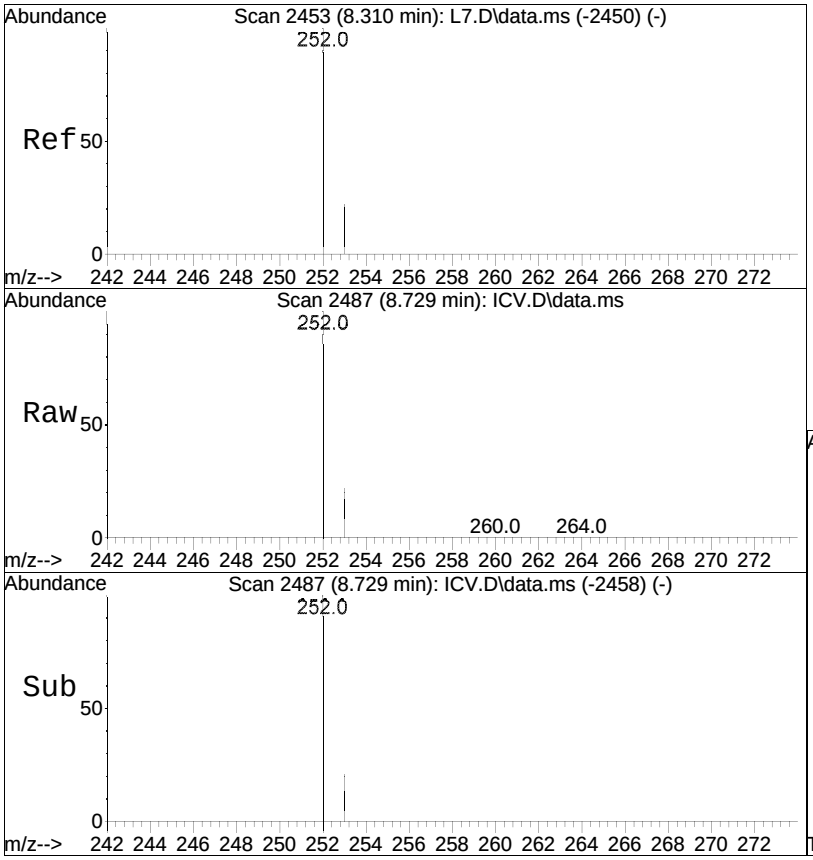


#35
Benzo[b]fluoranthene
Concen: 959.69 ng/ml
RT: 8.707 min Scan# 2480
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 17 Sep 2020 05:59 pm

Tgt Ion:252 Resp: 36633

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.5	26.3

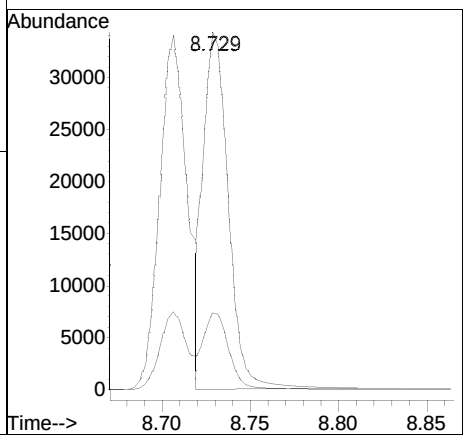


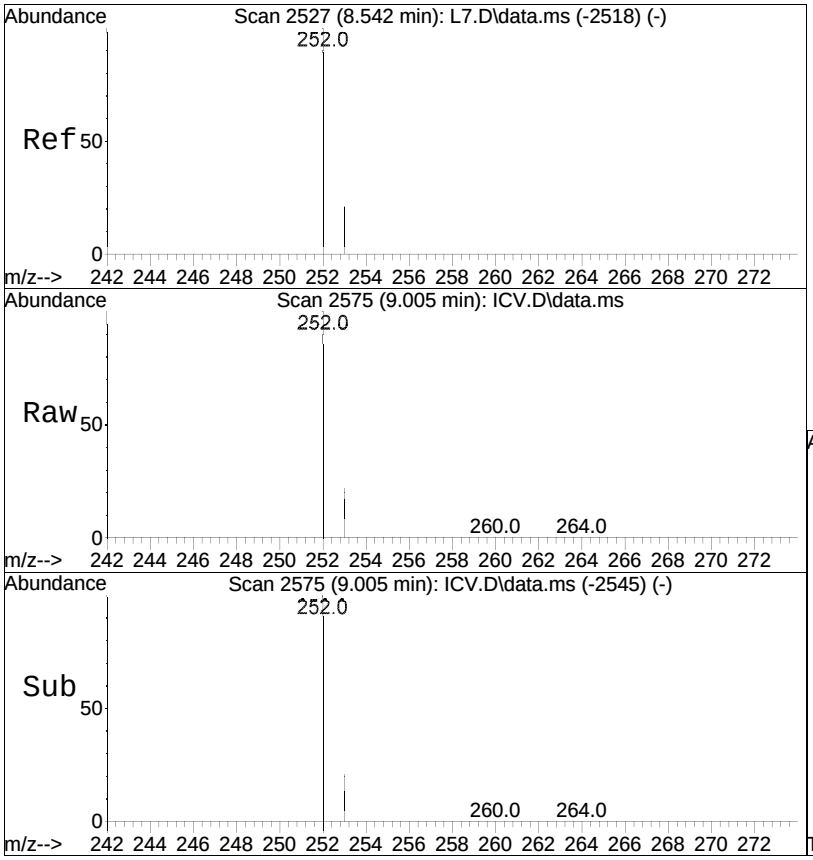


#36
Benzo[k]fluoranthene
Concen: 979.04 ng/ml
RT: 8.729 min Scan# 2487
Delta R.T. -0.007 min
Lab File: ICV.D
Acq: 17 Sep 2020 05:59 pm

Tgt Ion:252 Resp: 33477

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0

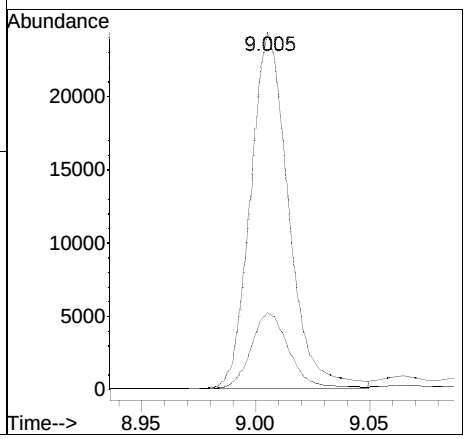


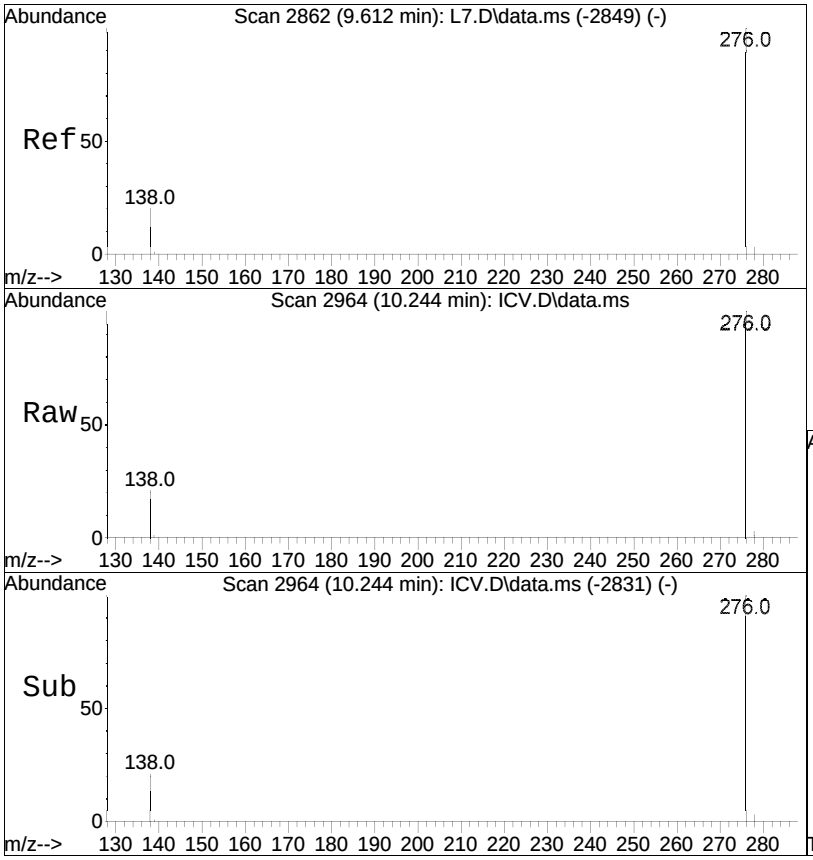


#37
Benzo[a]pyrene
Concen: 952.95 ng/ml
RT: 9.005 min Scan# 2575
Delta R.T. -0.007 min
Lab File: ICV.D
Acq: 17 Sep 2020 05:59 pm

Tgt Ion:252 Resp: 27893

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.3	25.9

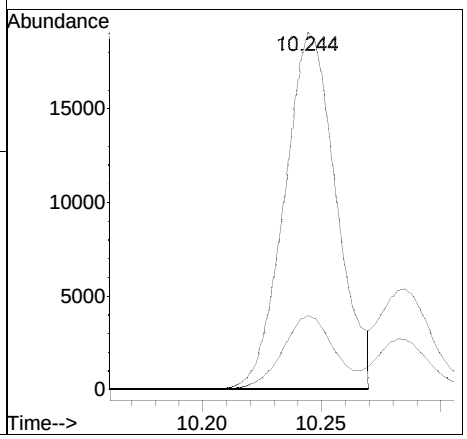


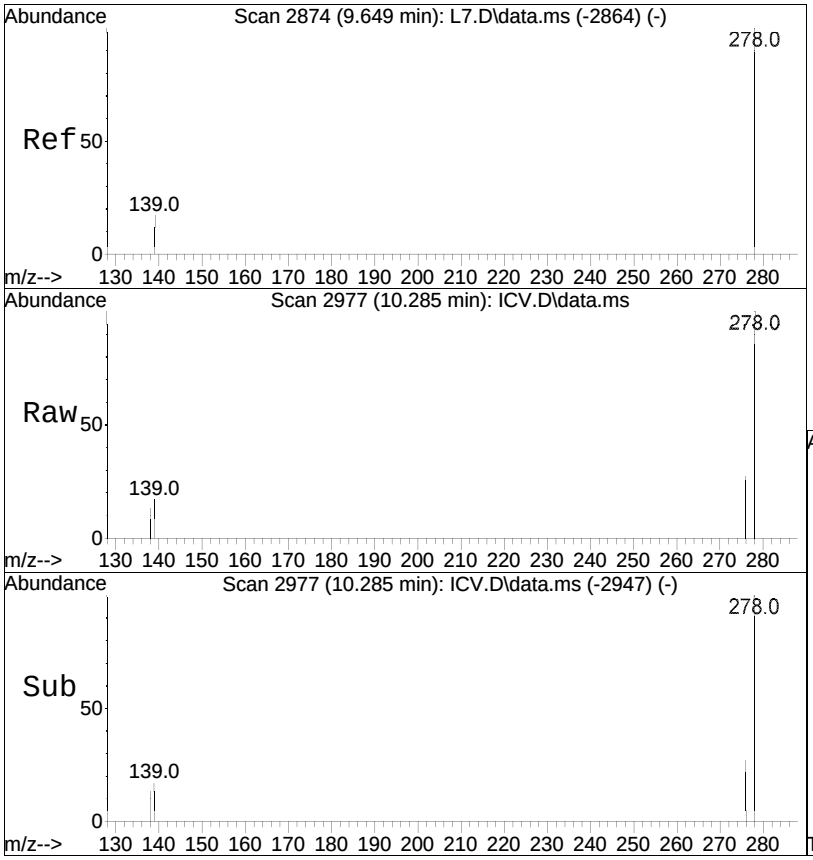


#38
Indeno[1,2,3-cd]pyrene
Concen: 908.99 ng/ml
RT: 10.244 min Scan# 2964
Delta R.T. -0.011 min
Lab File: ICV.D
Acq: 17 Sep 2020 05:59 pm

Tgt Ion:276 Resp: 28694

Ion	Ratio	Lower	Upper
276	100		
138	20.7	31.4	47.2#

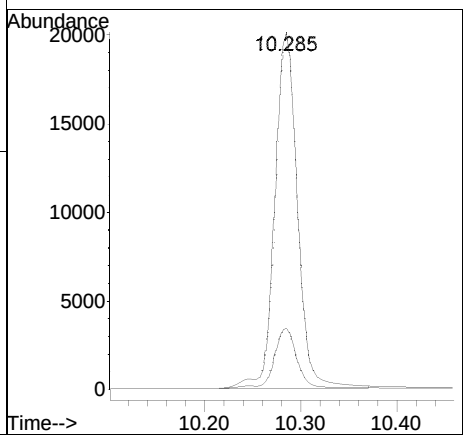


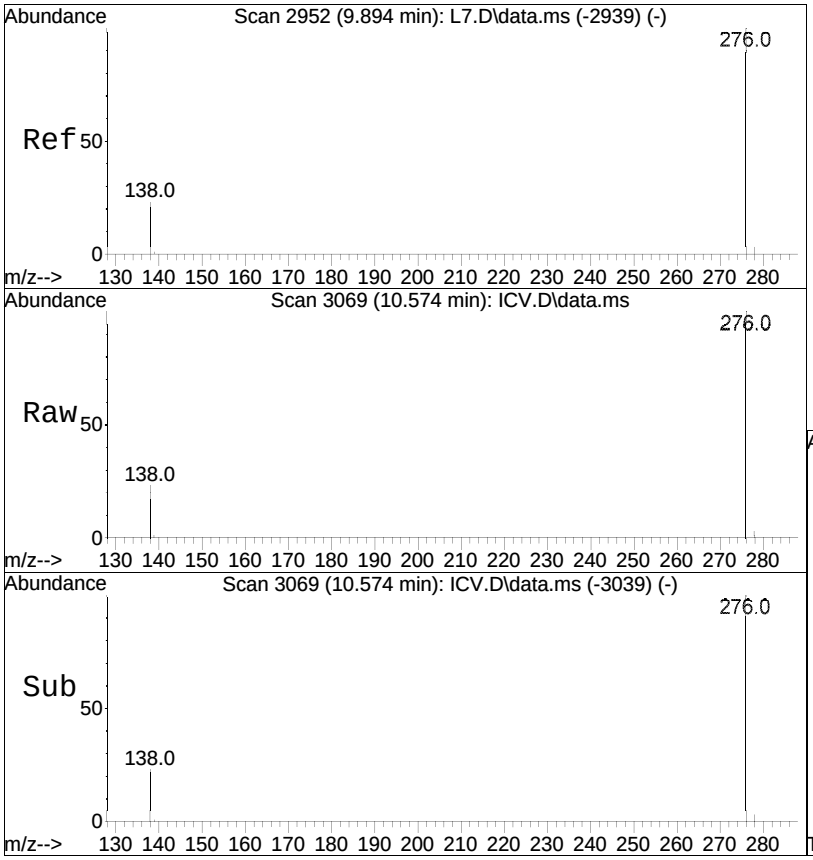


#39
Dibenzo[a,h]anthracene
Concen: 1012.34 ng/ml
RT: 10.285 min Scan# 2977
Delta R.T. -0.007 min
Lab File: ICV.D
Acq: 17 Sep 2020 05:59 pm

Tgt Ion:278 Resp: 32310

Ion	Ratio	Lower	Upper
278	100		
139	16.4	28.1	42.1#

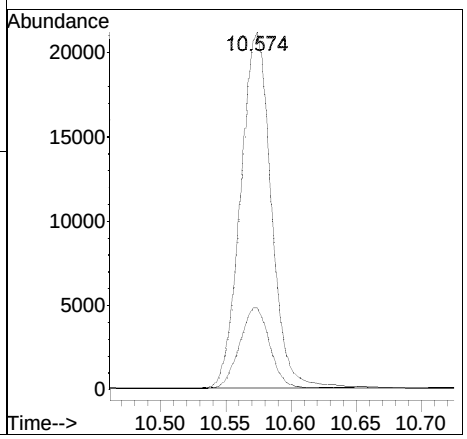




#40
Benzo[g,h,i]perylene
Concen: 959.96 ng/ml
RT: 10.574 min Scan# 3069
Delta R.T. -0.007 min
Lab File: ICV.D
Acq: 17 Sep 2020 05:59 pm

Tgt Ion:276 Resp: 34308

Ion	Ratio	Lower	Upper
276	100		
138	23.0	34.9	52.3#



Manual Integration Report

Data Path	: I:\8270SIM\SV125\200917LVI	Method	: SIM-LVI_200917_sv125.M
Data File	: ICV.D	Operator	: SV125:dv
Date Inj'd	: 9/17/2020 5:59 pm	Instrument	: SV125
Sample	: CQICV,32,,1.0	Quant Date	: 9/18/2020 11:15 am

There are no manual integrations or false positives in this file.

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Impact Environmental	**Lab Number**	: L2046790		
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209		
Instrument ID	: SV119	**Calibration Date**	: 10/29/20 07:39		
Lab File ID	: CCV1029	**Init. Calib. Date(s)**	: 09/16/20	09/16/20	
Sample No	: WG1427924-3	**Init. Calib. Times**	: 15:32	18:42	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	122	0
2-Fluorophenol	0.992	0.959	.05	3.3	20	115	0
Phenol-d6	1.166	1.073	.05	8	20	109	0
Bis(2-chloroethyl)ether	1.173	1.144	.05	2.5	20	112	0
n-nitrosodi-n-propylamine	0.66	0.641	.05	2.9	20	118	0
Hexachloroethane	0.496	0.472	.05	4.8	20	118	0
Nitrobenzene-d5	1.033	1.008	.05	2.4	20	118	0
Naphthalene-d8	1	1	.05	0	20	123	0
Naphthalene	1.028	0.984	.05	4.3	20	119	0
Hexachlorobutadiene	0.21	0.205	.05	2.4	20	122	0
2-Methylnaphthalene	0.67	0.674	.05	-0.6	20	120	0
1-Methylnaphthalene	0.634	0.632	.05	0.3	20	120	0
2-Fluorobiphenyl	0.839	0.865	.05	-3.1	20	127	0
2-Chloronaphthalene	0.681	0.708	.05	-4	20	125	0
Acenaphthylene	1.107	1.161	.05	-4.9	20	129	0
Acenaphthene-d10	1	1	.05	0	20	137	0
Acenaphthene	1.392	1.298	.05	6.8	20	128	0
Fluorene	1.419	1.415	.05	0.3	20	133	0
2,4,6-Tribromophenol	0.229	0.232	.05	-1.3	20	132	0
Phenanthrene-d10	1	1	.05	0	20	141	0
4,6-Dinitro-o-cresol	1000	1116.067	.05	-11.6	20	191	0
Hexachlorobenzene	0.257	0.227	.05	11.7	20	127	0
Pentachlorophenol	1000	1551.009	.05	-55.1*	20	223	0
Phenanthrene	1.101	1.036	.05	5.9	20	134	0
Anthracene	1.047	1.063	.05	-1.5	20	139	0
Fluoranthene	1.178	1.247	.05	-5.9	20	149	0
Pyrene	1.22	1.258	.05	-3.1	20	147	0
4-Terphenyl-d14	0.774	0.84	.05	-8.5	20	148	0
Chrysene-d12	1	1	.05	0	20	161	0
Benzo[a]anthracene	1000	910.74	.05	8.9	20	151	0
Chrysene	1.304	1.303	.05	0.1	20	162	0
Bis(2-ethylhexyl)phthalate	0.707	0.679	.05	4	20	169	0
Perylene-d12	1	1	.05	0	20	177	0
Benzo[b]fluoranthene	1.247	1.113	.05	10.7	20	156	0
Benzo[k]fluoranthene	1.262	1.272	.05	-0.8	20	177	0
Benzo[a]pyrene	1.069	1.021	.05	4.5	20	172	0
Indeno[1,2,3-cd]pyrene	1.007	0.942	.05	6.5	20	164	0
Dibenzo[a,h]anthracene	1.001	1.018	.05	-1.7	20	171	0
Benzo[g,h,i]perylene	1.13	1.087	.05	3.8	20	171	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\201029LVI\
Data File : ccv1029.D
Acq On : 29 Oct 2020 07:39 am
Operator : sv119:als
Sample : wg1427924-3,32,,CCV
Misc : wg1427924,,ical17132
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Oct 29 08:09:27 2020
Quant Method : I:\8270SIM\sv119\201029LVI\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 08:09:20 2020
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	122	0.00
2	T	1,4-Dioxane	0.436	0.000#	100.0#	0#	-0.99#
3	s	2-Fluorophenol	0.992	0.959	3.3	115	0.00
4	s	Phenol-d6	1.166	1.073	8.0	109	0.00
5	T	Bis(2-chloroethyl)ether	1.173	1.144	2.5	112	0.00
6	T	n-nitrosodi-n-propylamine	0.660	0.641	2.9	118	0.00
7	t	Hexachloroethane	0.496	0.472	4.8	118	0.00
8	s	Nitrobenzene-d5	1.033	1.008	2.4	118	0.00
9	i	Naphthalene-d8	1.000	1.000	0.0	123	0.00
10	t	Naphthalene	1.028	0.984	4.3	119	0.00
11	t	Hexachlorobutadiene	0.210	0.205	2.4	122	0.00
12	t	2-Methylnaphthalene	0.670	0.674	-0.6	120	0.00
13	t	1-Methylnaphthalene	0.634	0.632	0.3	120	0.00
14	s	2-Fluorobiphenyl	0.839	0.865	-3.1	127	0.00
15	t	2-Chloronaphthalene	0.681	0.708	-4.0	125	0.00
16	t	Acenaphthylene	1.107	1.161	-4.9	129	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	137	0.00
18	t	Acenaphthene	1.392	1.298	6.8	128	0.00
19	t	Fluorene	1.419	1.415	0.3	133	0.00
20	s	2,4,6-Tribromophenol	0.229	0.232	-1.3	132	0.00
21	i	Phenanthrene-d10	1.000	1.000	0.0	141	0.00
22	T	4,6-Dinitro-o-cresol	*1000.000	1116.067	-11.6	191	0.00
23	t	Hexachlorobenzene	0.257	0.227	11.7	127	0.00
24	t	Pentachlorophenol	*1000.000	1551.009	-55.1#	223	0.00
25	t	Phenanthrene	1.101	1.036	5.9	134	0.00
26	t	Anthracene	1.047	1.063	-1.5	139	0.00
27	t	Fluoranthene	1.178	1.247	-5.9	149	0.00
28	t	Pyrene	1.220	1.258	-3.1	147	0.00
29	s	4-Terphenyl-d14	0.774	0.840	-8.5	148	0.00
30	i	Chrysene-d12	1.000	1.000	0.0	161	0.00
31	t	Benzo[a]anthracene	*1000.000	910.740	8.9	151	0.00
32	t	Chrysene	1.304	1.303	0.1	162	0.00
33	T	Bis(2-ethylhexyl)phthalate	0.707	0.679	4.0	169	0.00
34	i	Perylene-d12	1.000	1.000	0.0	177	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\201029LVI\
Data File : ccv1029.D
Acq On : 29 Oct 2020 07:39 am
Operator : sv119:als
Sample : wg1427924-3,32,,CCV
Misc : wg1427924,,ical17132
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Oct 29 08:09:27 2020
Quant Method : I:\8270SIM\sv119\201029LVI\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 08:09:20 2020
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
35 t	Benzo[b]fluoranthene	1.247	1.113	10.7	156	0.00
36 t	Benzo[k]fluoranthene	1.262	1.272	-0.8	177	0.00
37 t	Benzo[a]pyrene	1.069	1.021	4.5	172	0.00
38 t	Indeno[1,2,3-cd]pyrene	1.007	0.942	6.5	164	0.00
39 t	Dibenzo[a,h]anthracene	1.001	1.018	-1.7	171	0.00
40 t	Benzo[g,h,i]perylene	1.130	1.087	3.8	171	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\201029LVI\
Data File : ccv1029.D
Acq On : 29 Oct 2020 07:39 am
Operator : sv119:als
Sample : wg1427924-3,32,,CCV
Misc : wg1427924,,ical17132
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Oct 29 08:09:27 2020
Quant Method : I:\8270SIM\sv119\201029LVI\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 08:09:20 2020
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	2.545	152	22118	4000.000	ng/ml		0.00
9) Naphthalene-d8	3.341	136	81355	4000.000	ng/ml	#	0.00
17) Acenaphthene-d10	4.501	164	49629	4000.000	ng/ml		0.00
21) Phenanthrene-d10	5.490	188	107834	4000.000	ng/ml	#	0.00
30) Chrysene-d12	7.277	240	112549	4000.000	ng/ml	#	0.00
34) Perylene-d12	8.210	264	113755	4000.000	ng/ml		0.00
System Monitoring Compounds							
3) 2-Fluorophenol	1.798	112	5303	966.957	ng/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 19339.14%#				
4) Phenol-d6	2.361	99	5933	920.088	ng/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 18401.76%#				
8) Nitrobenzene-d5	2.896	82	5572	975.389	ng/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 39015.56%#				
14) 2-Fluorobiphenyl	4.070	172	17588	1030.403	ng/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 41216.12%#				
20) 2,4,6-Tribromophenol	5.031	330	2884	1014.235	ng/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 20284.70%#				
29) 4-Terphenyl-d14	6.597	244	22640	1085.693	ng/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 43427.72%#				
Target Compounds							Qvalue
2) 1,4-Dioxane	0.000		0	N.D.			
5) Bis(2-chloroethyl)ether	3.221	93	6327	975.537	ng/ml		93
6) n-nitrosodi-n-propylamine	2.817	70	3542	971.195	ng/ml		98
7) Hexachloroethane	2.848	117	2612	953.056	ng/ml		81
10) Naphthalene	3.353	128	20019	957.092	ng/ml		100
11) Hexachlorobutadiene	3.451	225	4172	977.638	ng/ml		100
12) 2-Methylnaphthalene	3.813	142	13704	1006.047	ng/ml		99
13) 1-Methylnaphthalene	3.875	142	12850	997.268	ng/ml		97
15) 2-Chloronaphthalene	4.130	162	14392	1039.316	ng/ml		98
16) Acenaphthylene	4.402	152	23613	1049.104	ng/ml		99
18) Acenaphthene	4.520	153	16105	932.323	ng/ml		96
19) Fluorene	4.868	166	17560	997.275	ng/ml		100
22) 4,6-Dinitro-o-cresol	4.930	198	2683	1116.067	ng/ml		87
23) Hexachlorobenzene	5.236	284	6109	880.300	ng/ml		89
24) Pentachlorophenol	5.383	266	3418	1551.009	ng/ml		99
25) Phenanthrene	5.504	178	27940	941.395	ng/ml		99
26) Anthracene	5.539	178	28653	1014.962	ng/ml		100
27) Fluoranthene	6.306	202	33610	1058.153	ng/ml	#	91

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\201029LVI\
Data File : ccv1029.D
Acq On : 29 Oct 2020 07:39 am
Operator : sv119:als
Sample : wg1427924-3,32,,CCV
Misc : wg1427924,,ical17132
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Oct 29 08:09:27 2020
Quant Method : I:\8270SIM\sv119\201029LVI\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 08:09:20 2020
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Pyrene	6.452	202	33904	1031.117	ng/ml	98
31) Benzo[a]anthracene	7.270	228	31865	910.740	ng/ml#	80
32) Chrysene	7.292	228	36663	999.008	ug/ml	97
33) Bis(2-ethylhexyl)phtha...	7.375	149	19105	960.558	ng/ml	100
35) Benzo[b]fluoranthene	7.953	252	31663	892.766	ng/ml	99
36) Benzo[k]fluoranthene	7.971	252	36183	1008.027	ng/ml	100
37) Benzo[a]pyrene	8.167	252	29040	954.920	ng/ml	100
38) Indeno[1,2,3-cd]pyrene	9.069	276	26799	936.205	ng/ml#	61
39) Dibenzo[a,h]anthracene	9.104	278	28940	1016.288	ng/ml#	63
40) Benzo[g,h,i]perylene	9.308	276	30919	962.295	ng/ml#	60

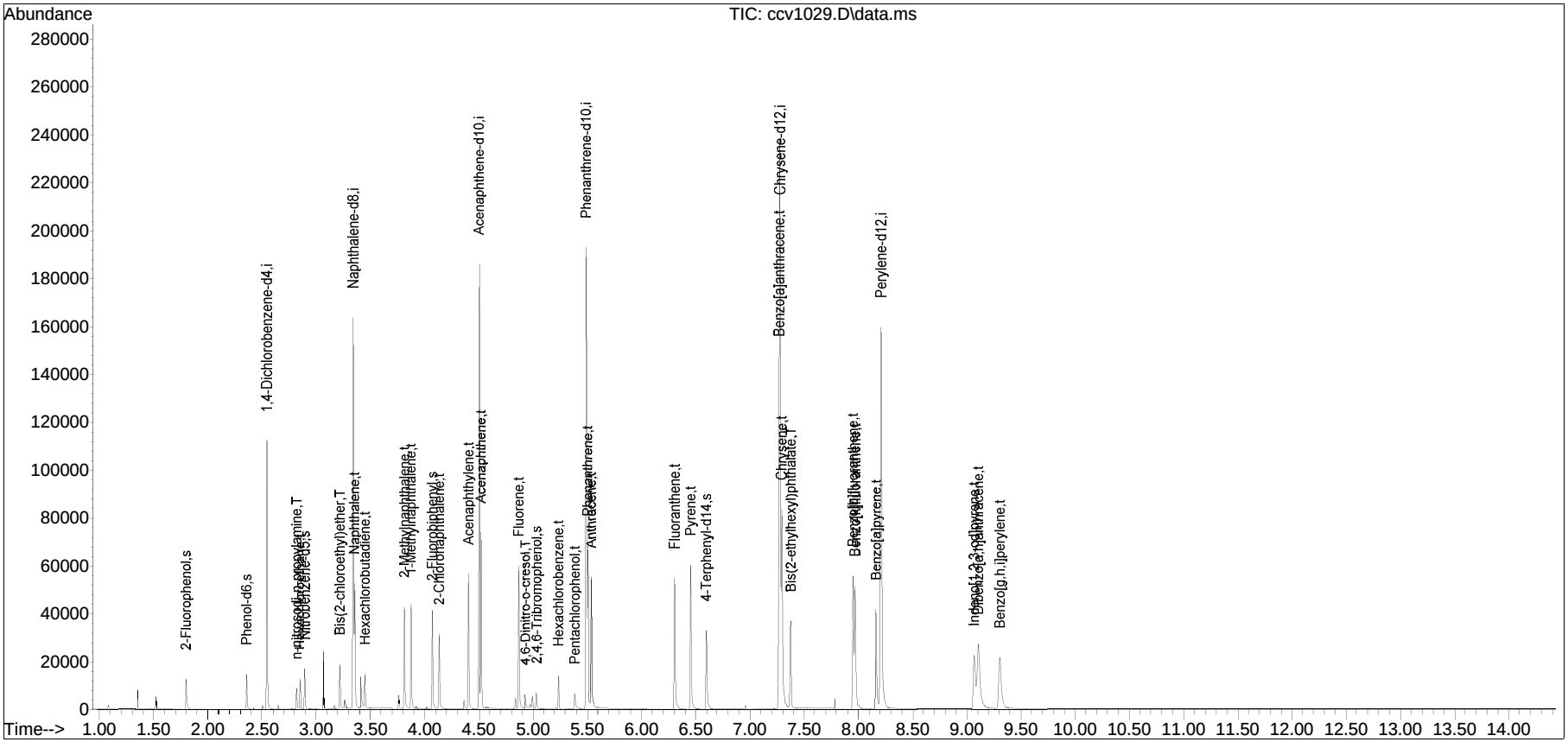
(#) = qualifier out of range (m) = manual integration (+) = signals summed

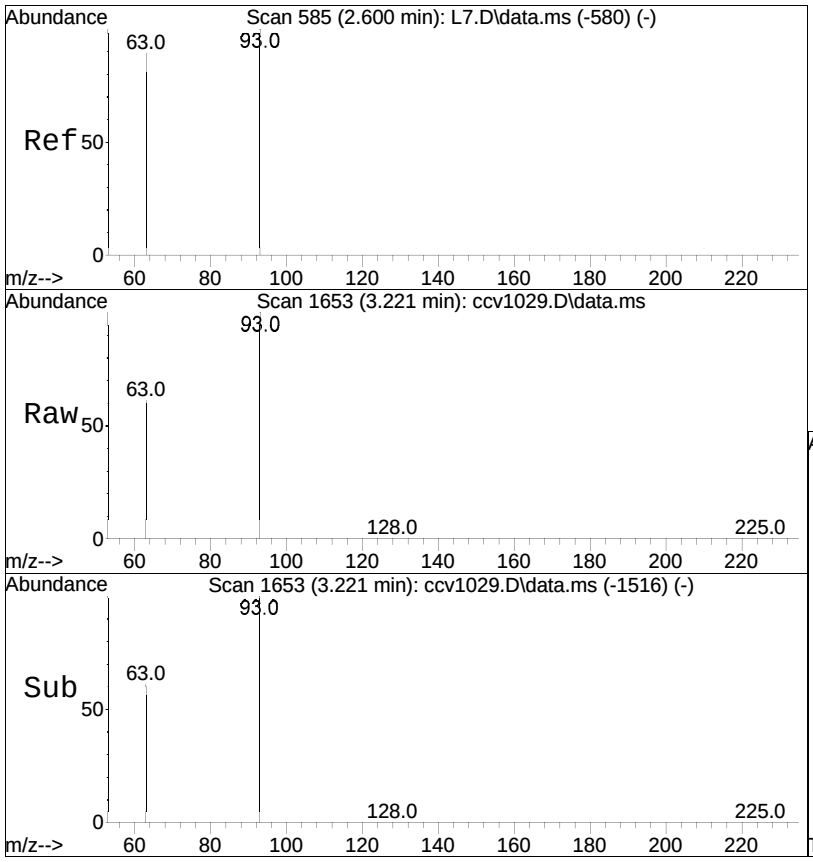
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\201029LVI\
Data File : ccv1029.D
Acq On : 29 Oct 2020 07:39 am
Operator : sv119:als
Sample : wg1427924-3,32,,CCV
Misc : wg1427924,,ical17132
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Oct 29 08:09:27 2020
Quant Method : I:\8270SIM\sv119\201029LVI\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 08:09:20 2020
Response via : Initial Calibration

Sub List : Default - All compounds listed

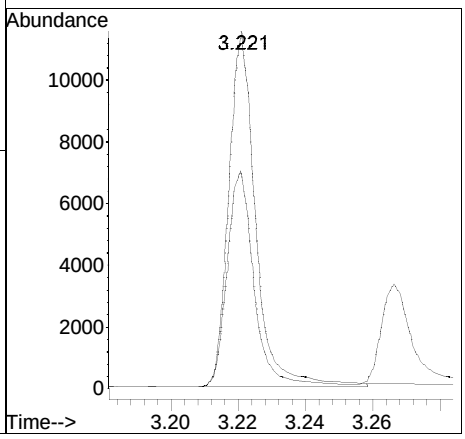


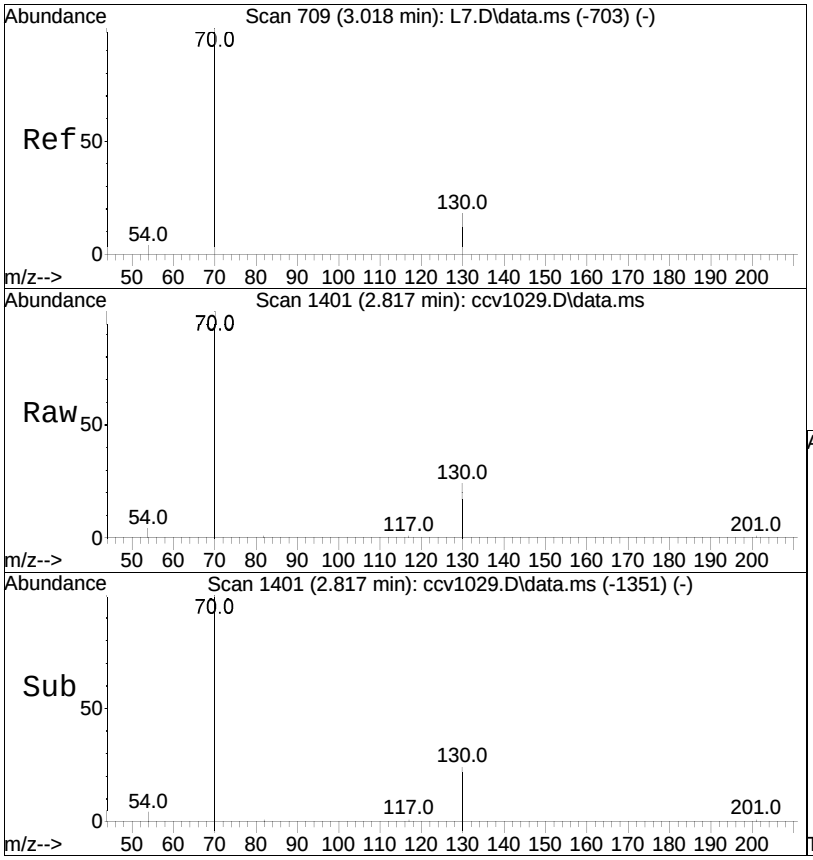


#5
Bis(2-chloroethyl)ether
Concen: 975.54 ng/ml
RT: 3.221 min Scan# 1653
Delta R.T. 0.000 min
Lab File: ccv1029.D
Acq: 29 Oct 2020 07:39 am

Tgt Ion: 93 Resp: 6327

Ion	Ratio	Lower	Upper
93	100		
63	63.4	55.1	82.7

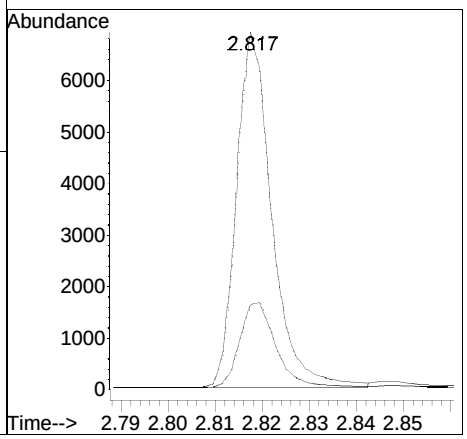


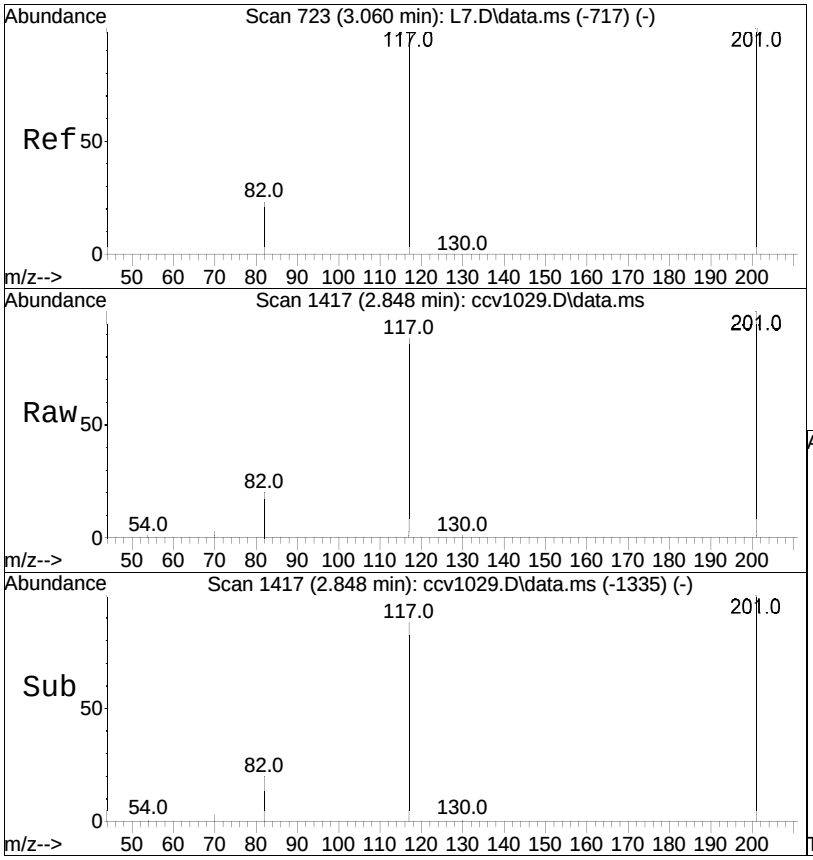


#6
n-nitrosodi-n-propylamine
Concen: 971.20 ng/ml
RT: 2.817 min Scan# 1401
Delta R.T. 0.000 min
Lab File: ccv1029.D
Acq: 29 Oct 2020 07:39 am

Tgt Ion: 70 Resp: 3542

Ion	Ratio	Lower	Upper
70	100		
130	24.6	18.9	28.3

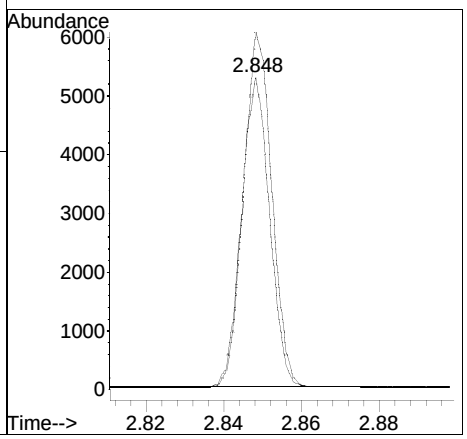


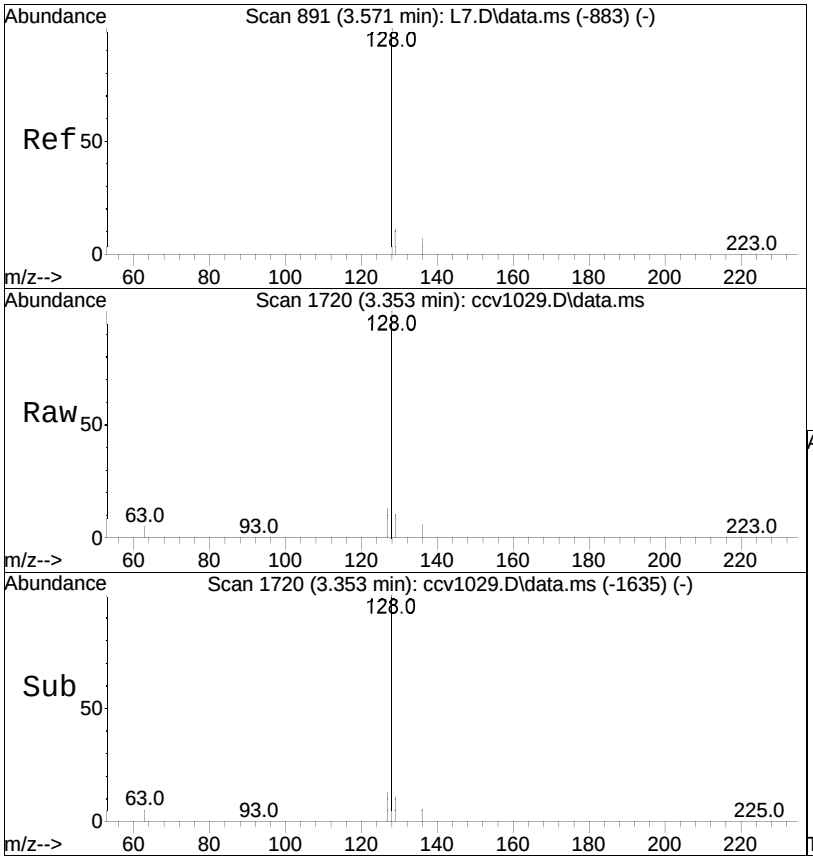


#7
Hexachloroethane
Concen: 953.06 ng/ml
RT: 2.848 min Scan# 1417
Delta R.T. 0.000 min
Lab File: ccv1029.D
Acq: 29 Oct 2020 07:39 am

Tgt Ion:117 Resp: 2612

Ion	Ratio	Lower	Upper
117	100		
201	116.2	78.0	117.0

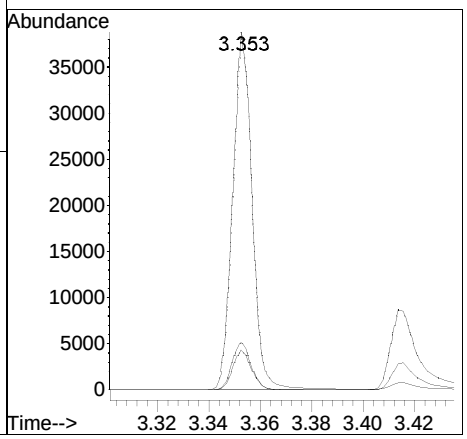


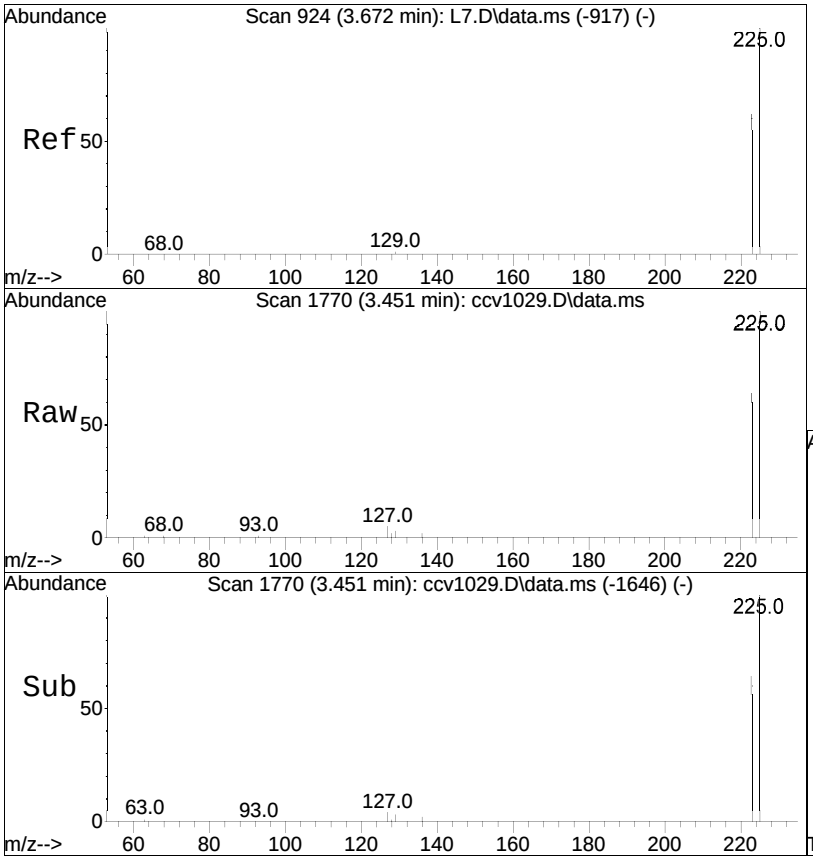


#10
Naphthalene
Concen: 957.09 ng/ml
RT: 3.353 min Scan# 1720
Delta R.T. 0.000 min
Lab File: ccv1029.D
Acq: 29 Oct 2020 07:39 am

Tgt Ion:128 Resp: 20019

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	13.2	10.6	16.0

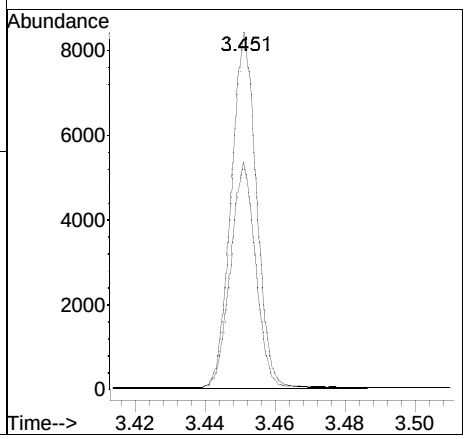


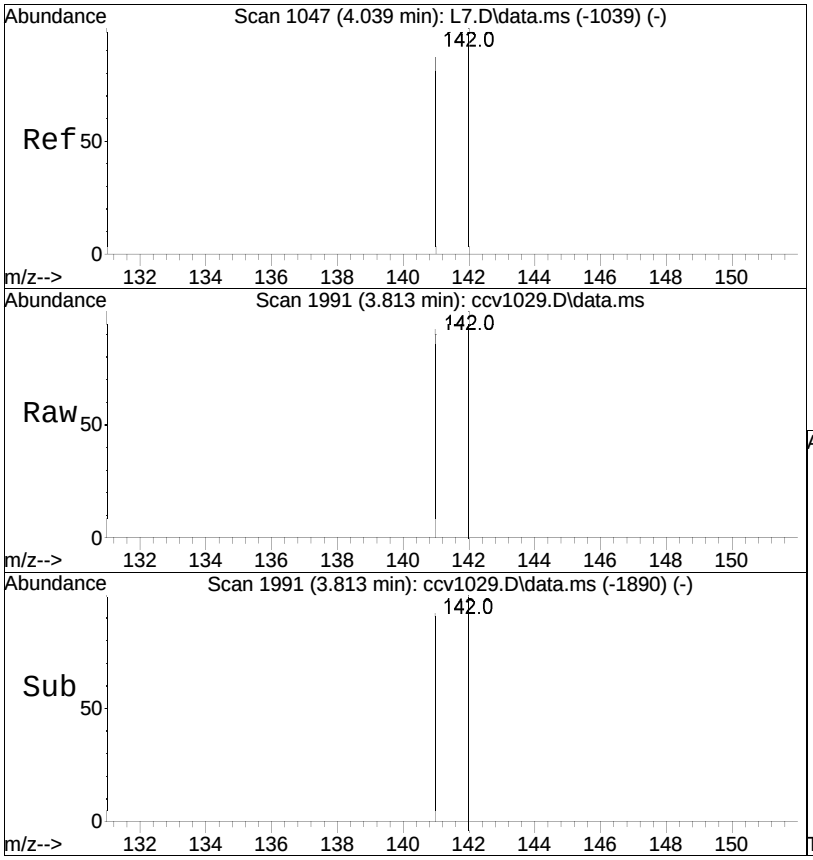


#11
Hexachlorobutadiene
Concen: 977.64 ng/ml
RT: 3.451 min Scan# 1770
Delta R.T. 0.000 min
Lab File: ccv1029.D
Acq: 29 Oct 2020 07:39 am

Tgt Ion:225 Resp: 4172

Ion	Ratio	Lower	Upper
225	100		
223	63.1	50.4	75.6

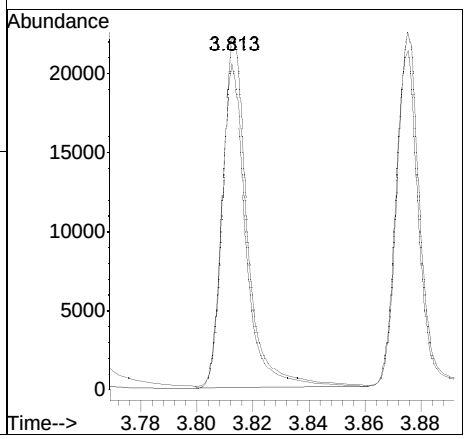


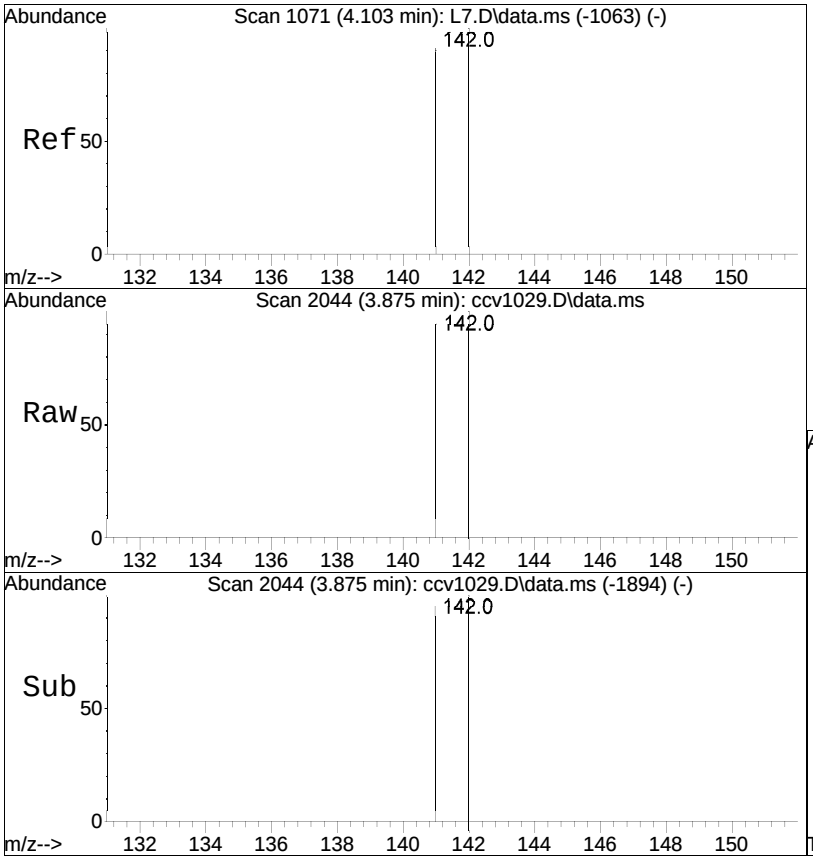


#12
2-Methylnaphthalene
Concen: 1006.05 ng/ml
RT: 3.813 min Scan# 1991
Delta R.T. 0.000 min
Lab File: ccv1029.D
Acq: 29 Oct 2020 07:39 am

Tgt Ion:142 Resp: 13704

Ion	Ratio	Lower	Upper
142	100		
141	91.8	73.0	109.6

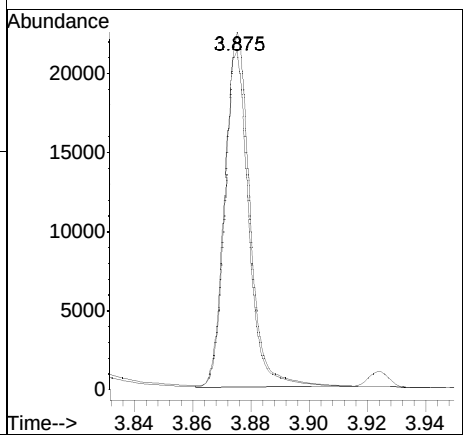


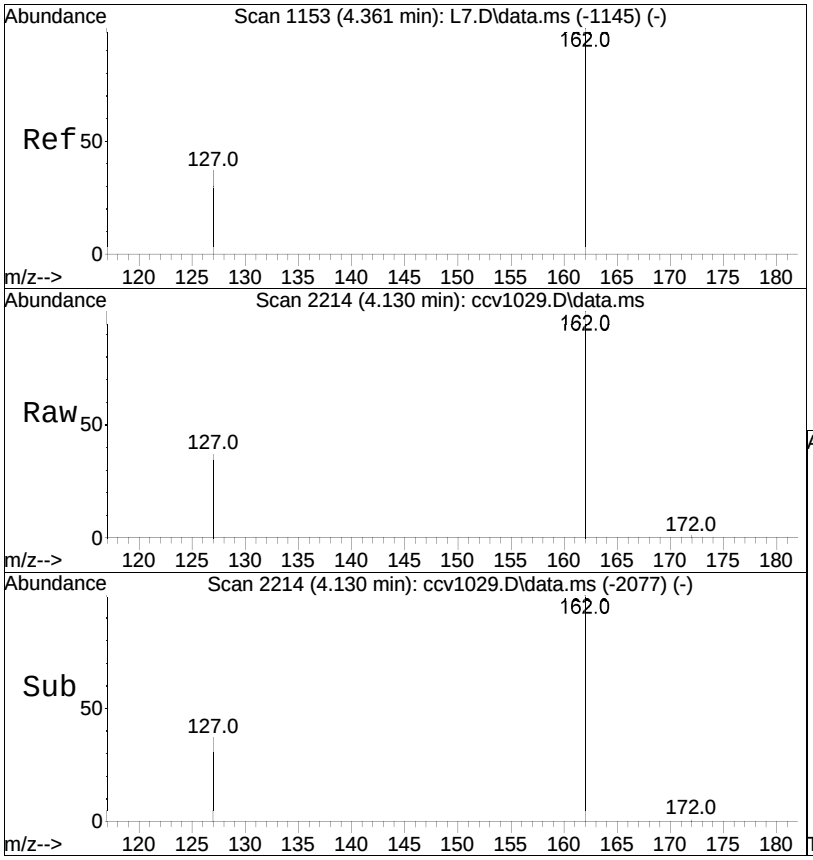


#13
1-Methylnaphthalene
Concen: 997.27 ng/ml
RT: 3.875 min Scan# 2044
Delta R.T. 0.000 min
Lab File: ccv1029.D
Acq: 29 Oct 2020 07:39 am

Tgt Ion:142 Resp: 12850

Ion	Ratio	Lower	Upper
142	100		
141	97.1	75.6	113.4

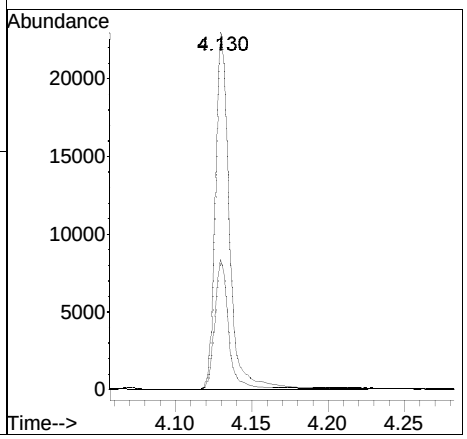


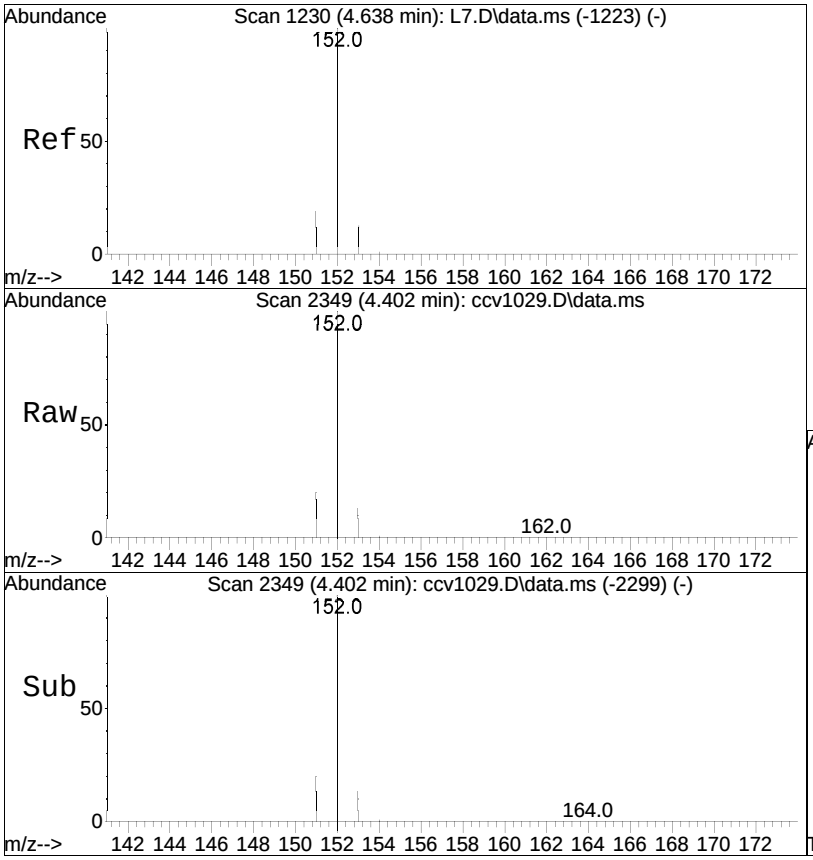


#15
2-Chloronaphthalene
Concen: 1039.32 ng/ml
RT: 4.130 min Scan# 2214
Delta R.T. 0.000 min
Lab File: ccv1029.D
Acq: 29 Oct 2020 07:39 am

Tgt Ion:162 Resp: 14392

Ion	Ratio	Lower	Upper
162	100		
127	36.1	29.8	44.6

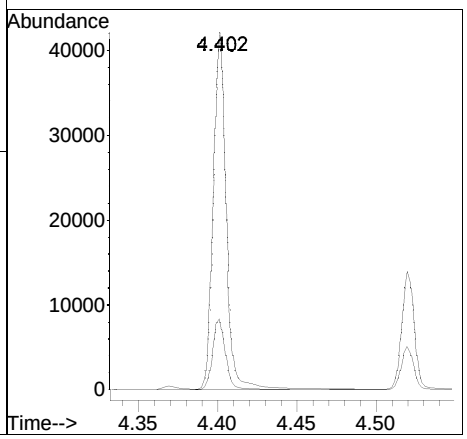


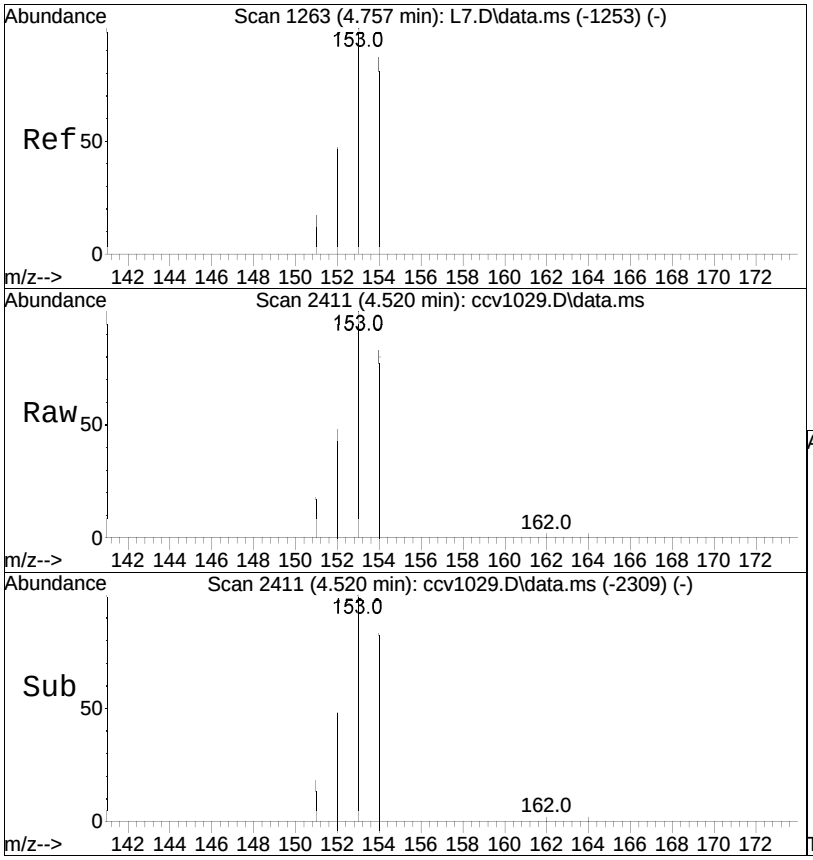


#16
Acenaphthylene
Concen: 1049.10 ng/ml
RT: 4.402 min Scan# 2349
Delta R.T. 0.000 min
Lab File: ccv1029.D
Acq: 29 Oct 2020 07:39 am

Tgt Ion:152 Resp: 23613

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.3	24.5

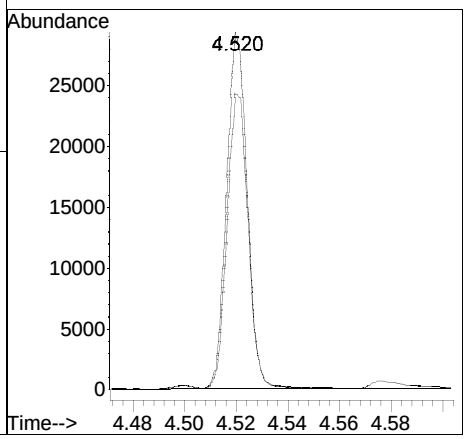


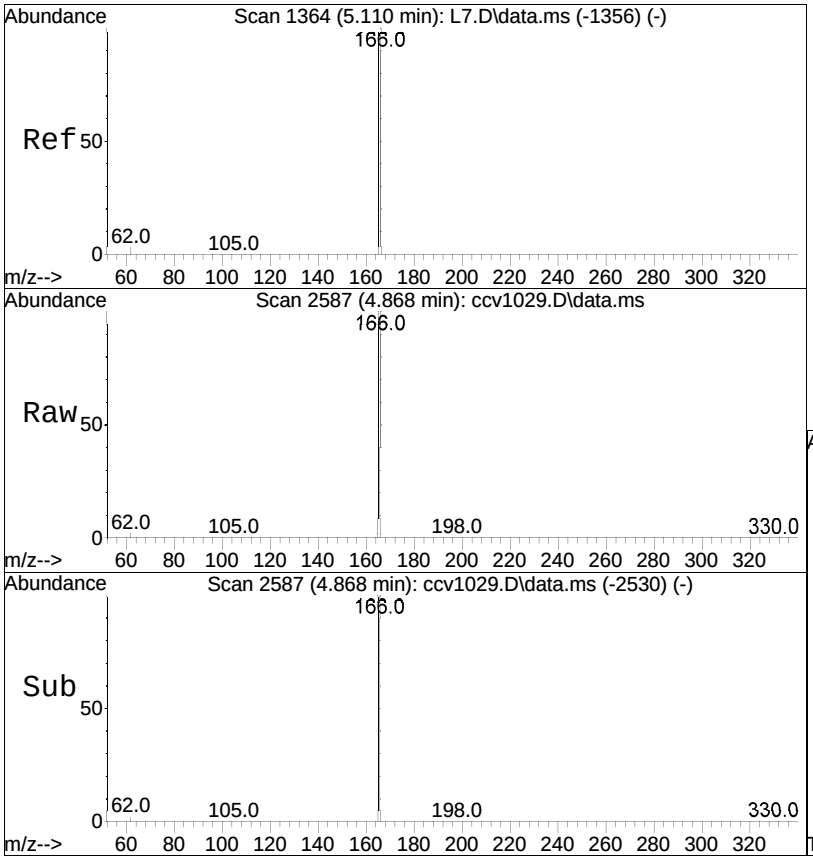


#18
Acenaphthene
Concen: 932.32 ng/ml
RT: 4.520 min Scan# 2411
Delta R.T. 0.000 min
Lab File: ccv1029.D
Acq: 29 Oct 2020 07:39 am

Tgt Ion:153 Resp: 16105

Ion	Ratio	Lower	Upper
153	100		
154	84.0	69.8	104.8

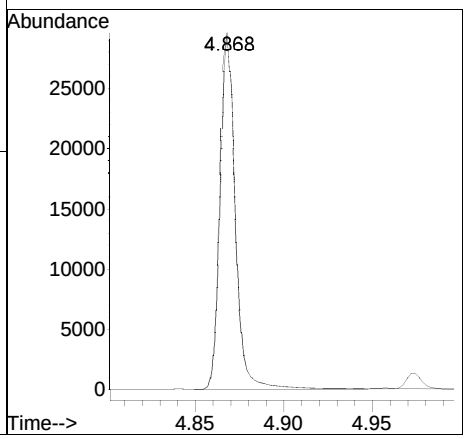


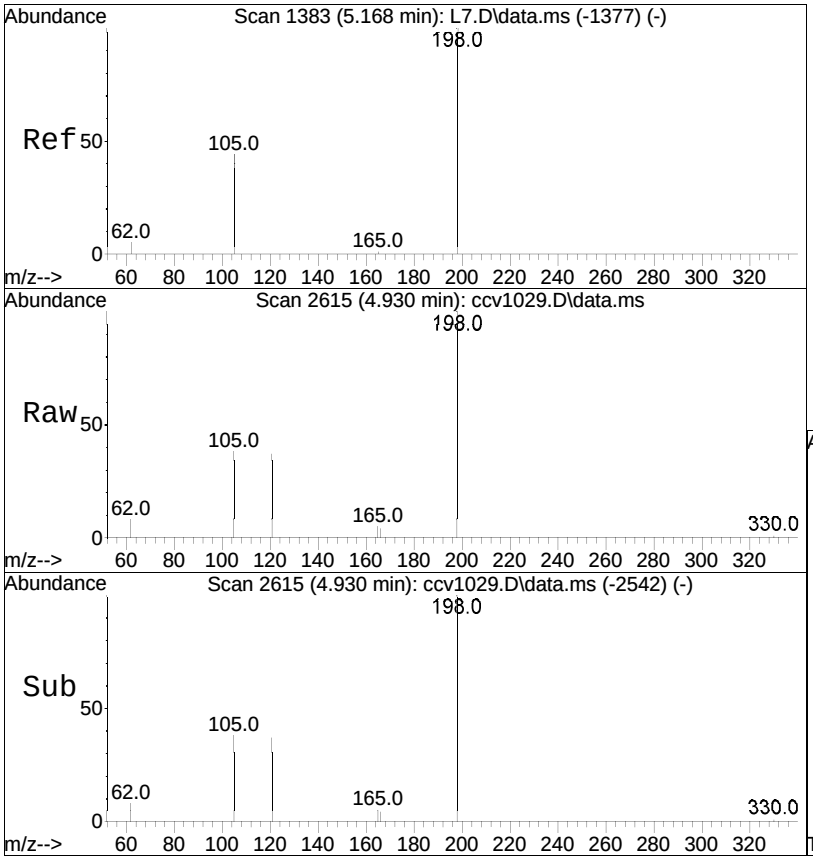


#19
Fluorene
Concen: 997.27 ng/ml
RT: 4.868 min Scan# 2587
Delta R.T. 0.000 min
Lab File: ccv1029.D
Acq: 29 Oct 2020 07:39 am

Tgt Ion:166 Resp: 17560

Ion	Ratio	Lower	Upper
166	100		
165	101.5	80.9	121.3

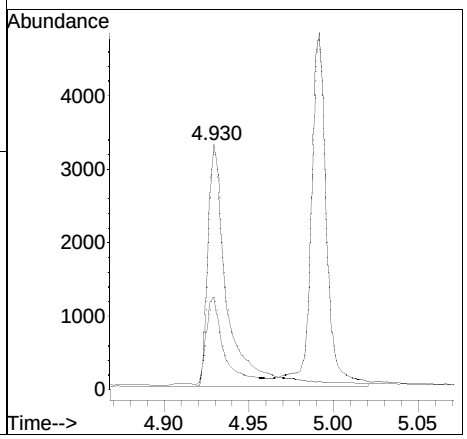


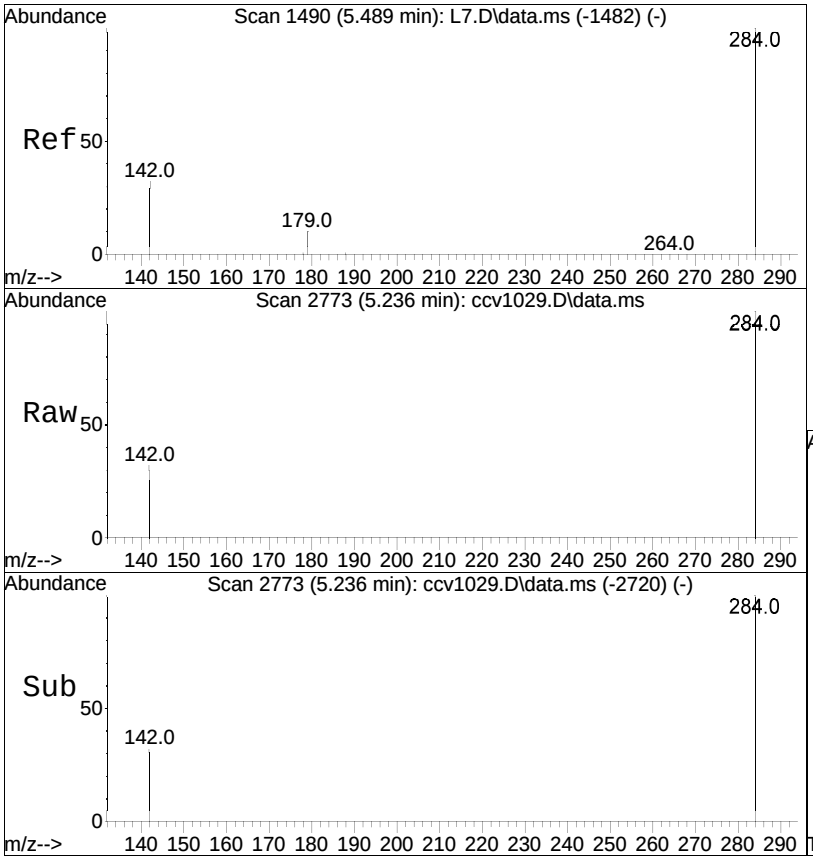


#22
4,6-Dinitro-o-cresol
Concen: 1116.07 ng/ml
RT: 4.930 min Scan# 2615
Delta R.T. 0.000 min
Lab File: ccv1029.D
Acq: 29 Oct 2020 07:39 am

Tgt Ion:198 Resp: 2683

Ion	Ratio	Lower	Upper
198	100		
105	33.5	33.4	50.0

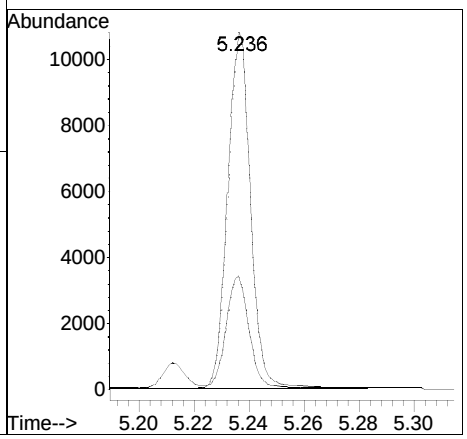


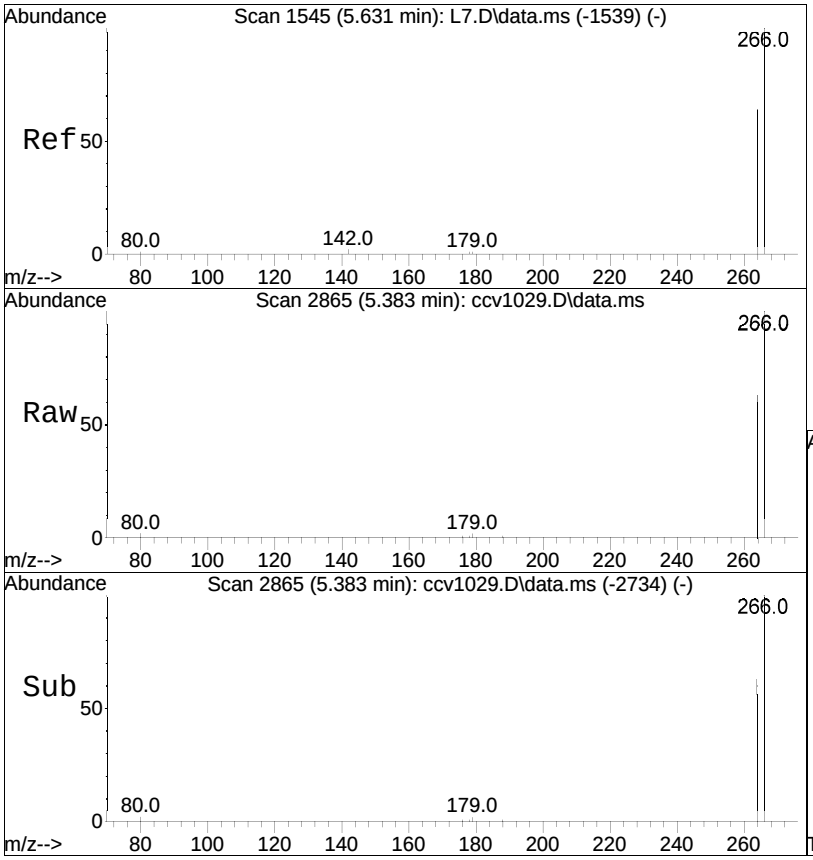


#23
Hexachlorobenzene
Concen: 880.30 ng/ml
RT: 5.236 min Scan# 2773
Delta R.T. 0.000 min
Lab File: ccv1029.D
Acq: 29 Oct 2020 07:39 am

Tgt Ion:284 Resp: 6109

Ion	Ratio	Lower	Upper
284	100		
142	32.1	31.2	46.8

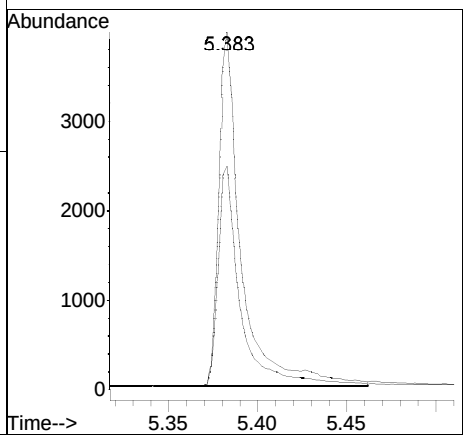


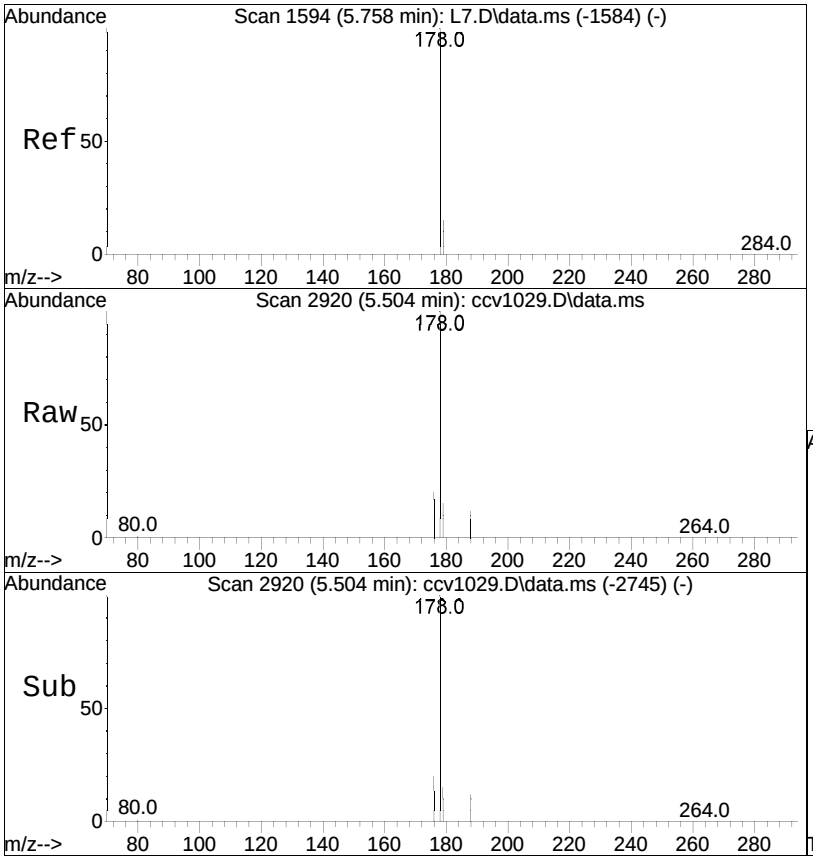


#24
Pentachlorophenol
Concen: 1551.01 ng/ml
RT: 5.383 min Scan# 2865
Delta R.T. 0.000 min
Lab File: ccv1029.D
Acq: 29 Oct 2020 07:39 am

Tgt Ion:266 Resp: 3418

Ion	Ratio	Lower	Upper
266	100		
264	62.9	50.9	76.3

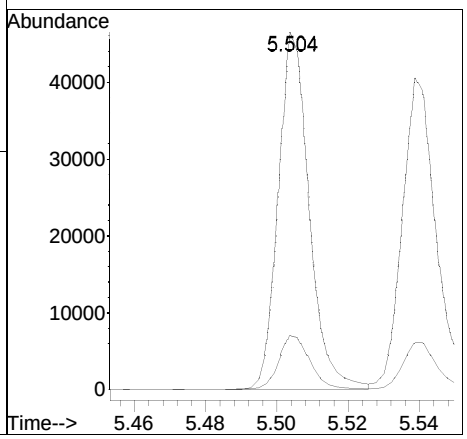


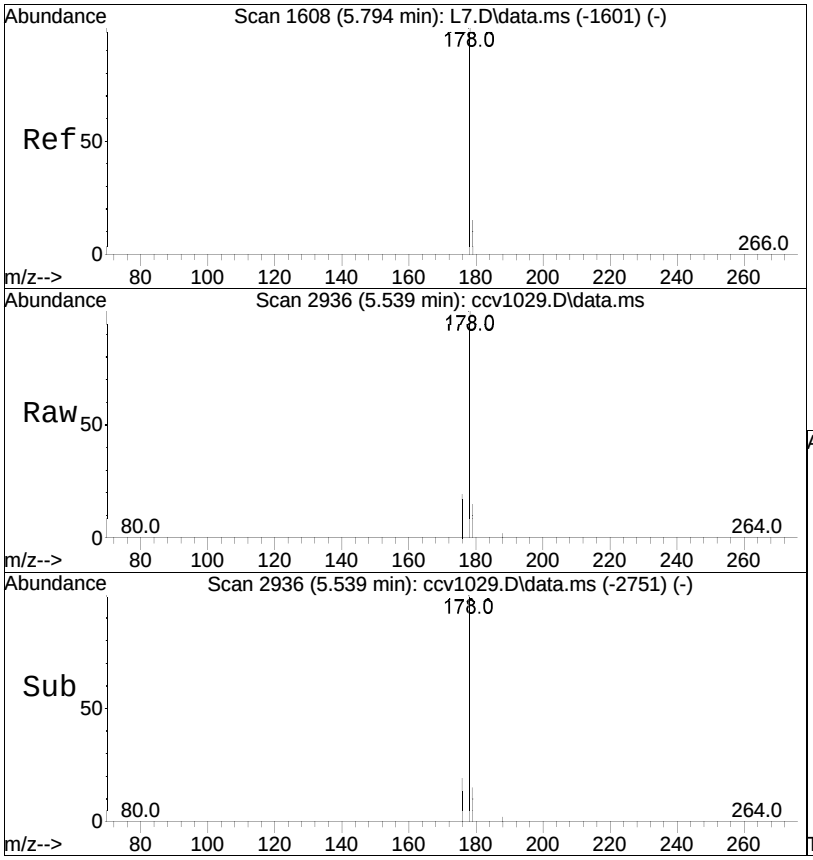


#25
Phenanthrene
Concen: 941.40 ng/ml
RT: 5.504 min Scan# 2920
Delta R.T. 0.000 min
Lab File: ccv1029.D
Acq: 29 Oct 2020 07:39 am

Tgt Ion:178 Resp: 27940

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.5	18.7

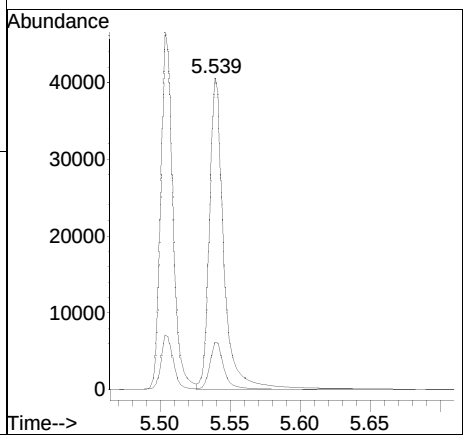


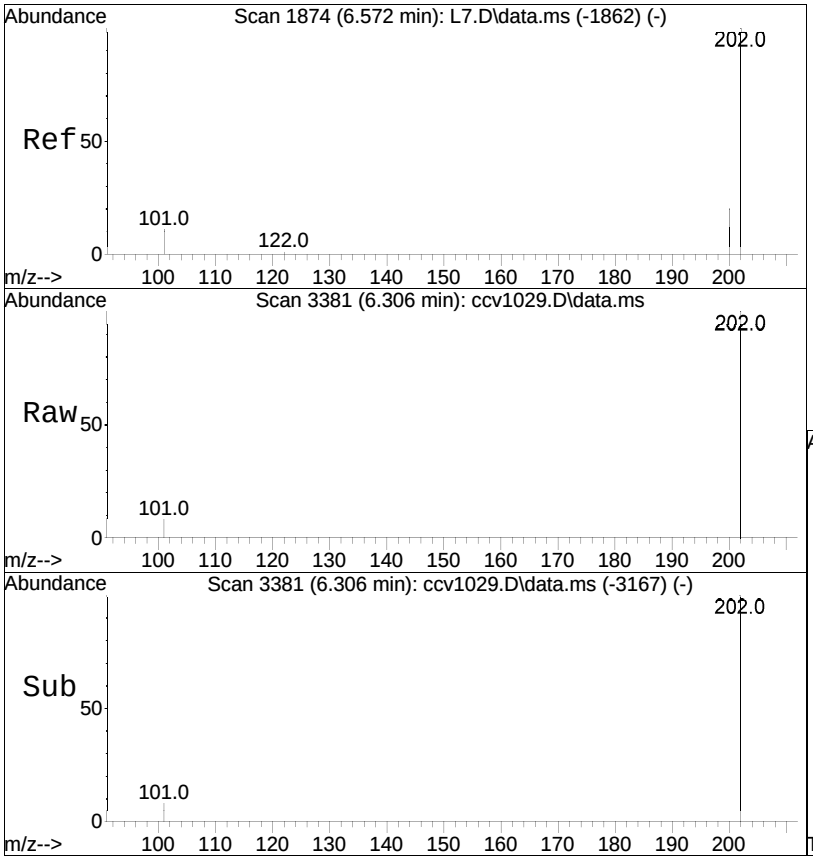


#26
Anthracene
Concen: 1014.96 ng/ml
RT: 5.539 min Scan# 2936
Delta R.T. 0.000 min
Lab File: ccv1029.D
Acq: 29 Oct 2020 07:39 am

Tgt Ion:178 Resp: 28653

Ion	Ratio	Lower	Upper
178	100		
179	15.1	12.2	18.4

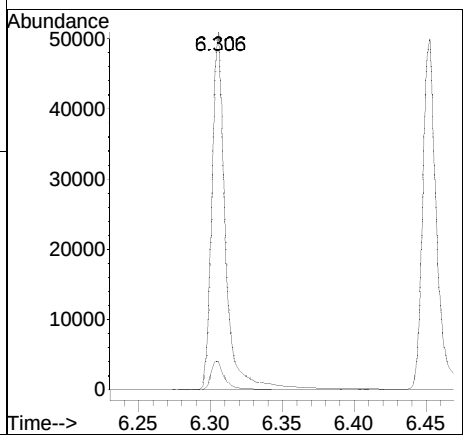


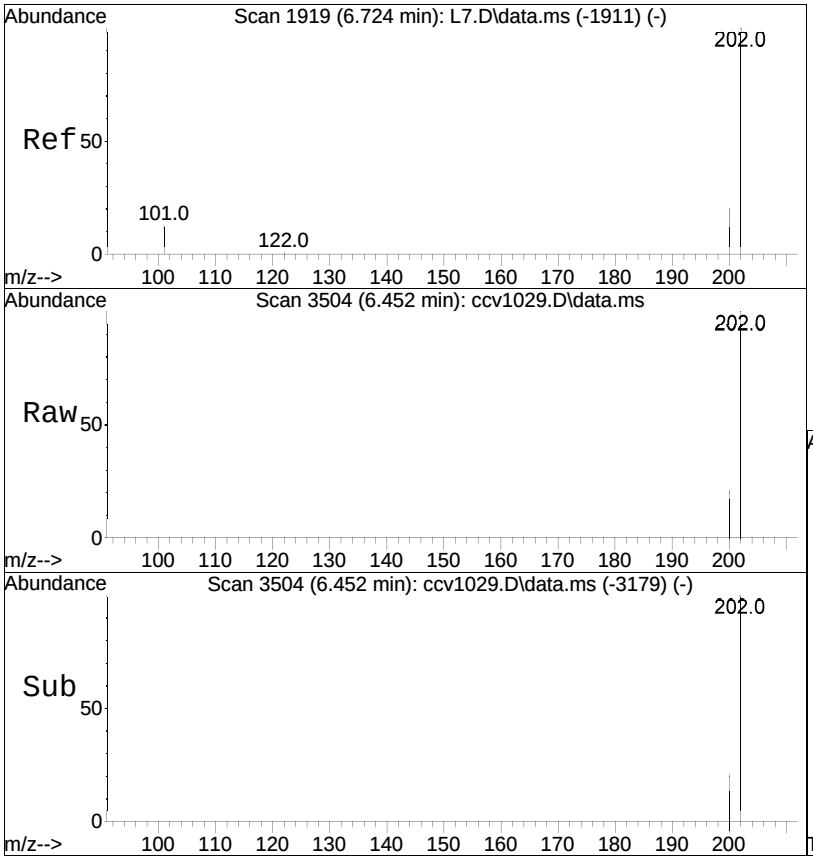


#27
Fluoranthene
Concen: 1058.15 ng/ml
RT: 6.306 min Scan# 3381
Delta R.T. 0.000 min
Lab File: ccv1029.D
Acq: 29 Oct 2020 07:39 am

Tgt Ion:202 Resp: 33610

Ion	Ratio	Lower	Upper
202	100		
101	7.7	8.9	13.3#

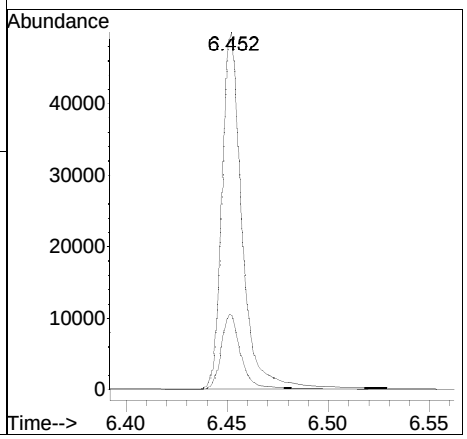


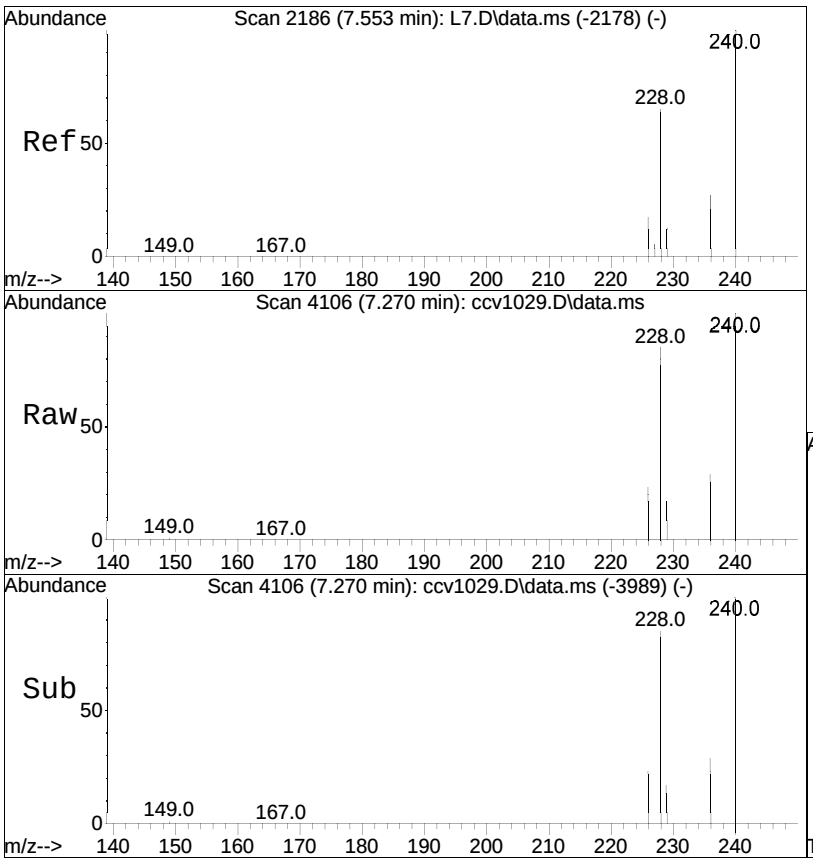


#28
Pyrene
Concen: 1031.12 ng/ml
RT: 6.452 min Scan# 3504
Delta R.T. 0.000 min
Lab File: ccv1029.D
Acq: 29 Oct 2020 07:39 am

Tgt Ion:202 Resp: 33904

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.6	26.4

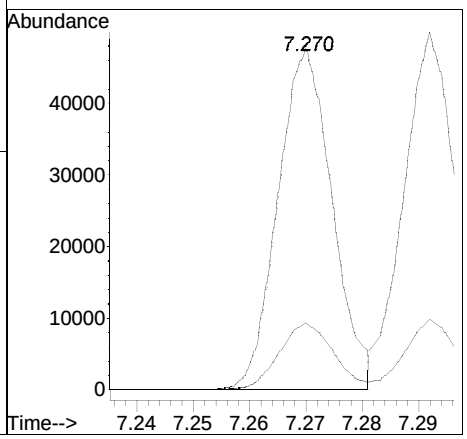


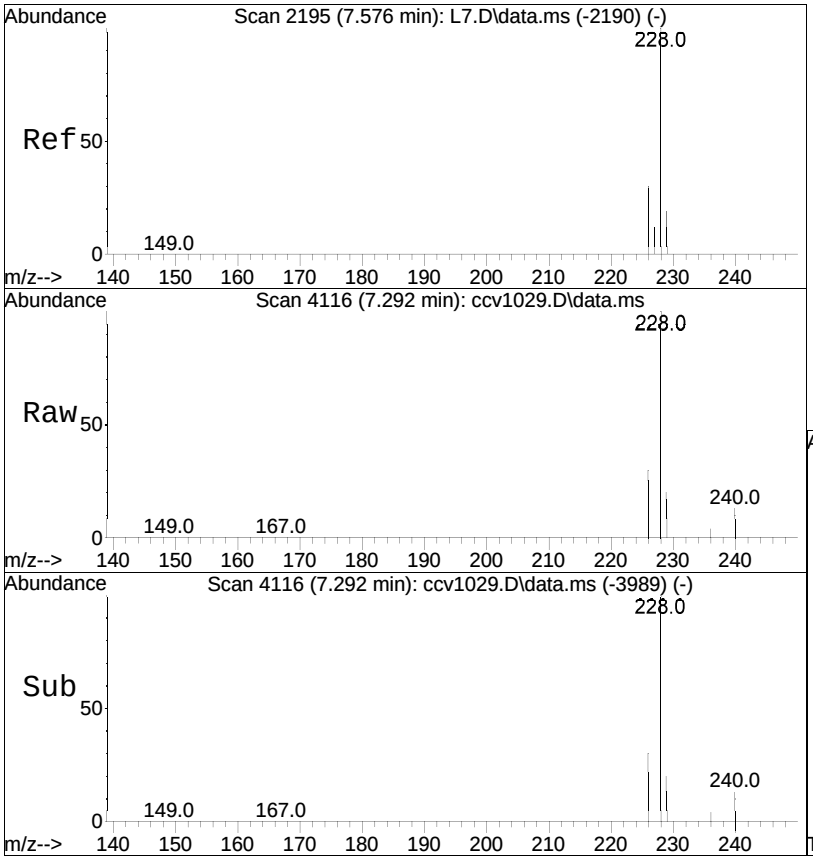


#31
Benzo[a]anthracene
Concen: 910.74 ng/ml
RT: 7.270 min Scan# 4106
Delta R.T. 0.000 min
Lab File: ccv1029.D
Acq: 29 Oct 2020 07:39 am

Tgt Ion:228 Resp: 31865

Ion	Ratio	Lower	Upper
228	100		
229	19.5	24.1	36.1#

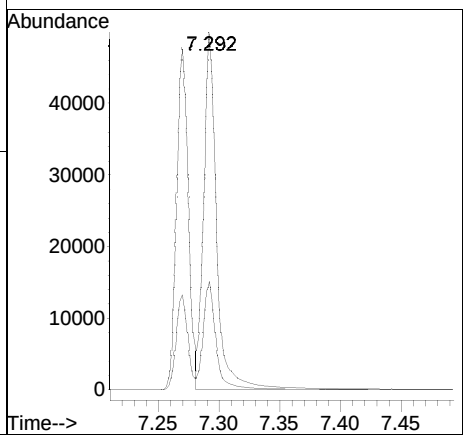


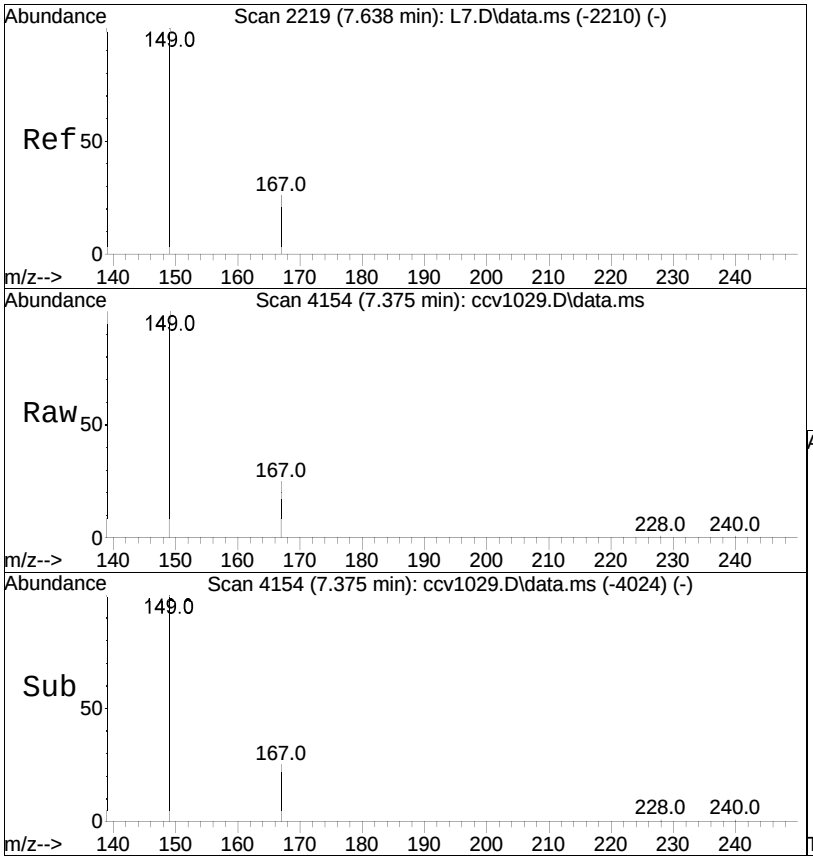


#32
Chrysene
Concen: 999.01 ug/ml
RT: 7.292 min Scan# 4116
Delta R.T. 0.000 min
Lab File: ccv1029.D
Acq: 29 Oct 2020 07:39 am

Tgt Ion:228 Resp: 36663

Ion	Ratio	Lower	Upper
228	100		
226	30.0	25.4	38.0

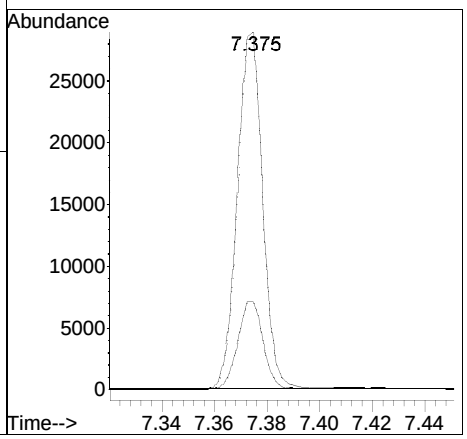


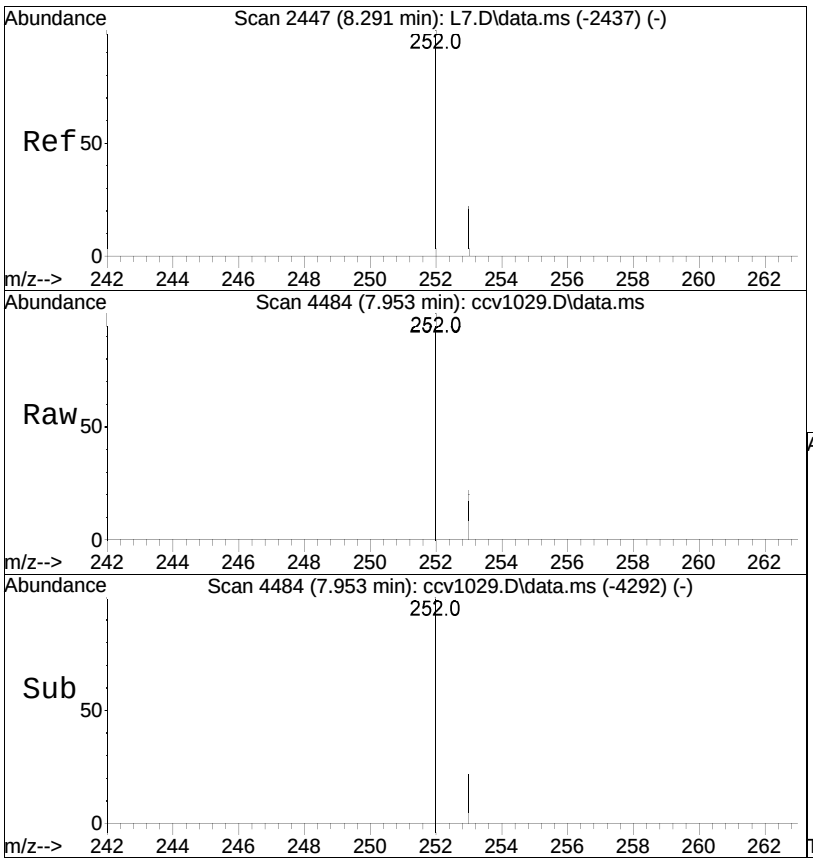


#33
Bis(2-ethylhexyl)phthalate
Concen: 960.56 ng/ml
RT: 7.375 min Scan# 4154
Delta R.T. 0.000 min
Lab File: ccv1029.D
Acq: 29 Oct 2020 07:39 am

Tgt Ion:149 Resp: 19105

Ion	Ratio	Lower	Upper
149	100		
167	24.9	20.0	30.0

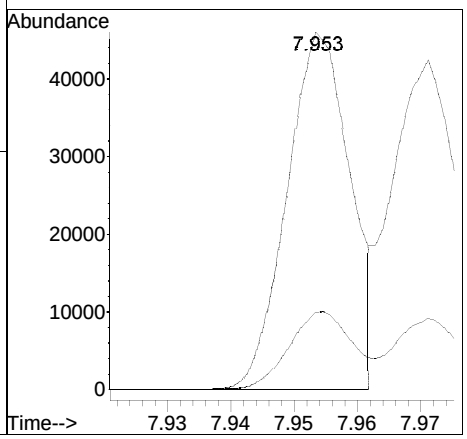


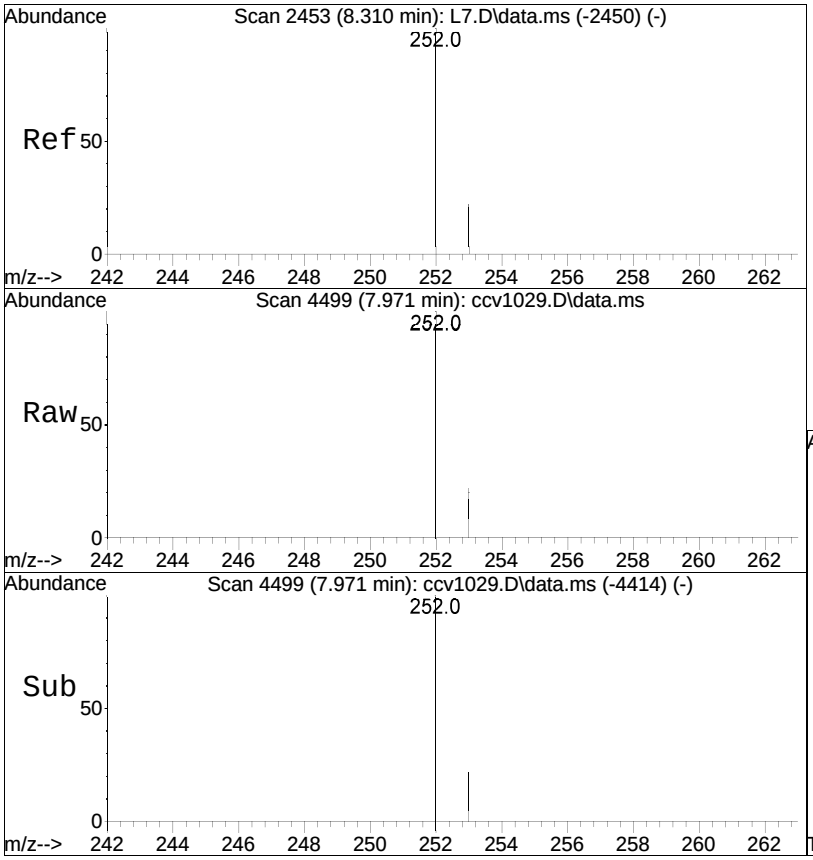


#35
Benzo[b]fluoranthene
Concen: 892.77 ng/ml
RT: 7.953 min Scan# 4484
Delta R.T. 0.000 min
Lab File: ccv1029.D
Acq: 29 Oct 2020 07:39 am

Tgt Ion:252 Resp: 31663

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.5	26.3

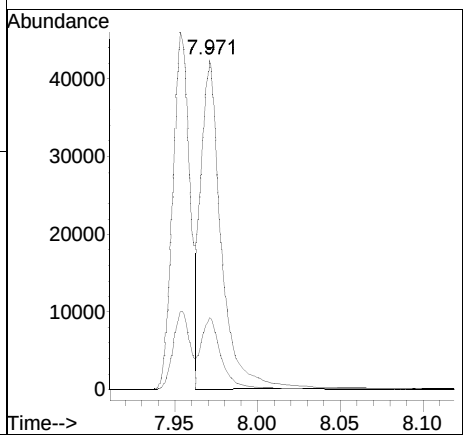


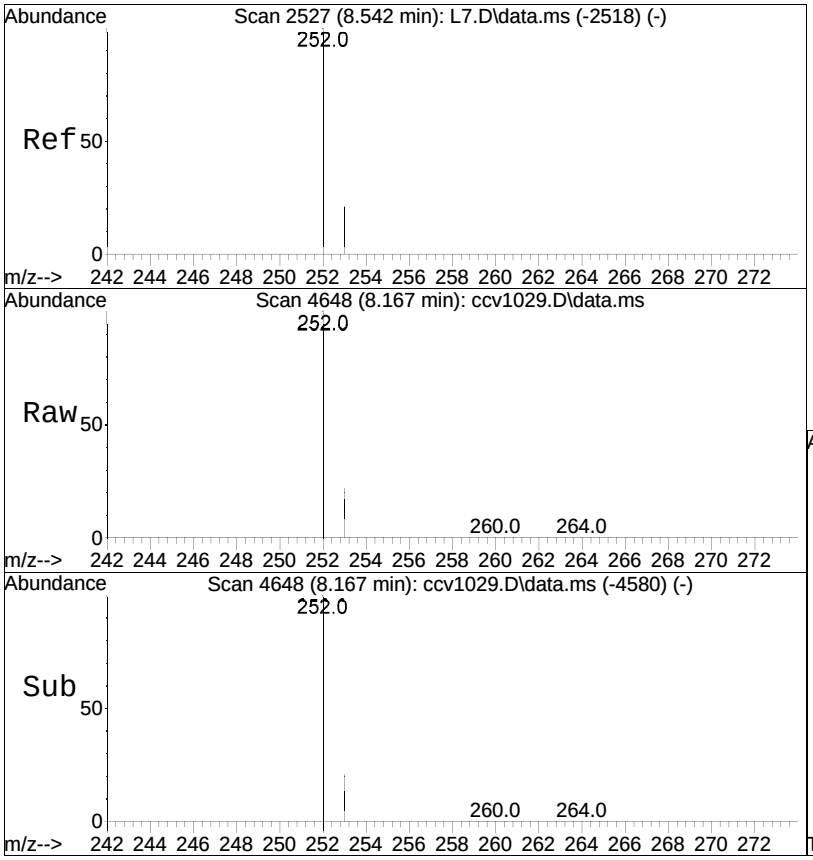


#36
Benzo[k]fluoranthene
Concen: 1008.03 ng/ml
RT: 7.971 min Scan# 4499
Delta R.T. 0.000 min
Lab File: ccv1029.D
Acq: 29 Oct 2020 07:39 am

Tgt Ion:252 Resp: 36183

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0

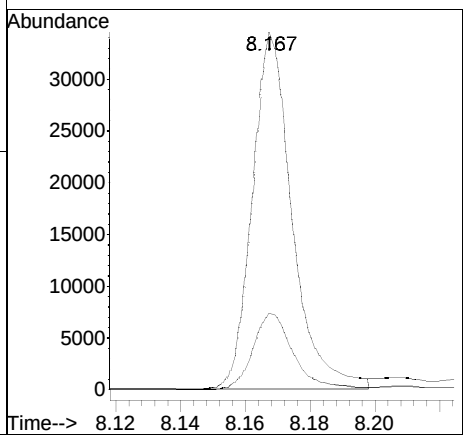


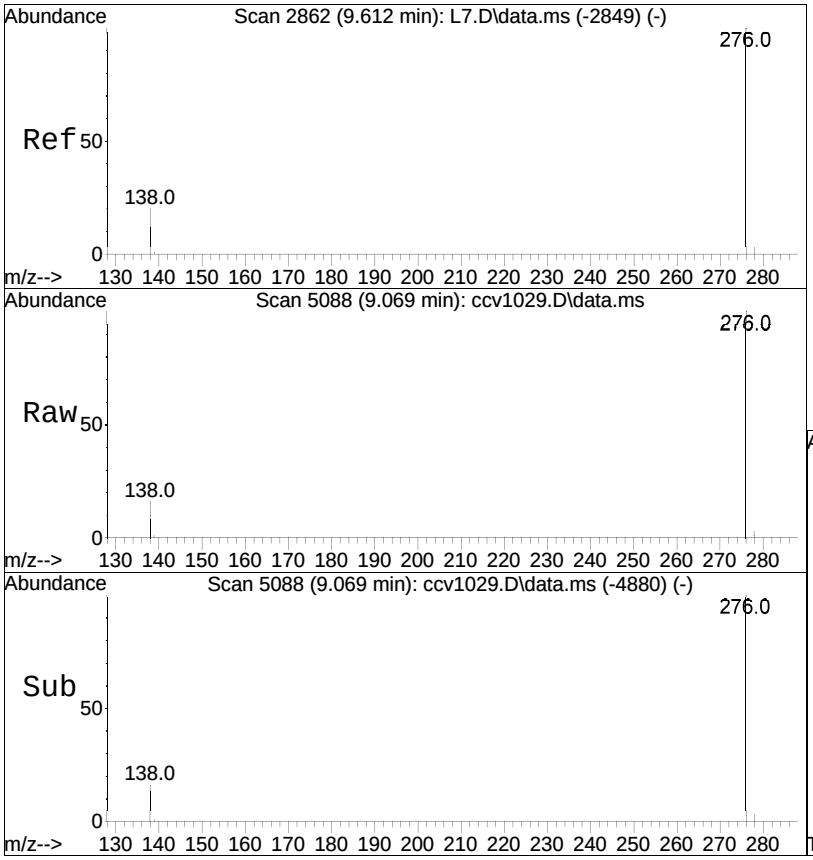


#37
Benzo[a]pyrene
Concen: 954.92 ng/ml
RT: 8.167 min Scan# 4648
Delta R.T. 0.000 min
Lab File: ccv1029.D
Acq: 29 Oct 2020 07:39 am

Tgt Ion:252 Resp: 29040

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.3	25.9

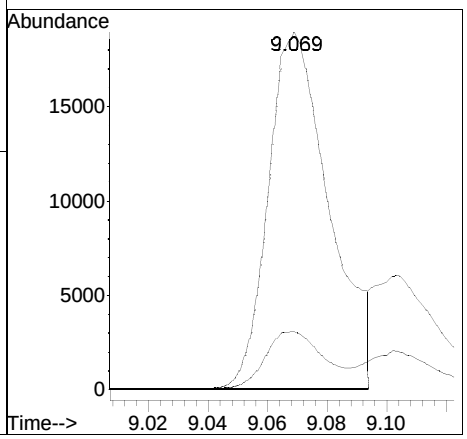


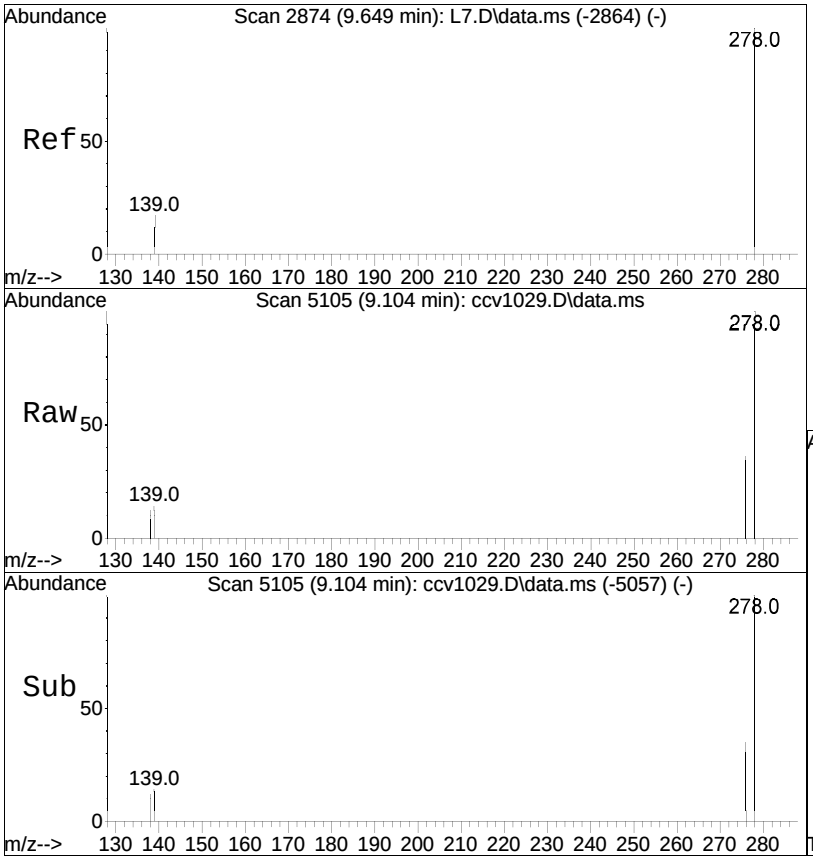


#38
Indeno[1,2,3-cd]pyrene
Concen: 936.20 ng/ml
RT: 9.069 min Scan# 5088
Delta R.T. 0.000 min
Lab File: ccv1029.D
Acq: 29 Oct 2020 07:39 am

Tgt Ion:276 Resp: 26799

Ion	Ratio	Lower	Upper
276	100		
138	15.6	31.4	47.2#

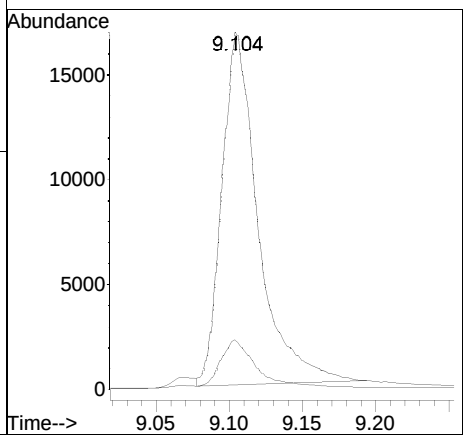


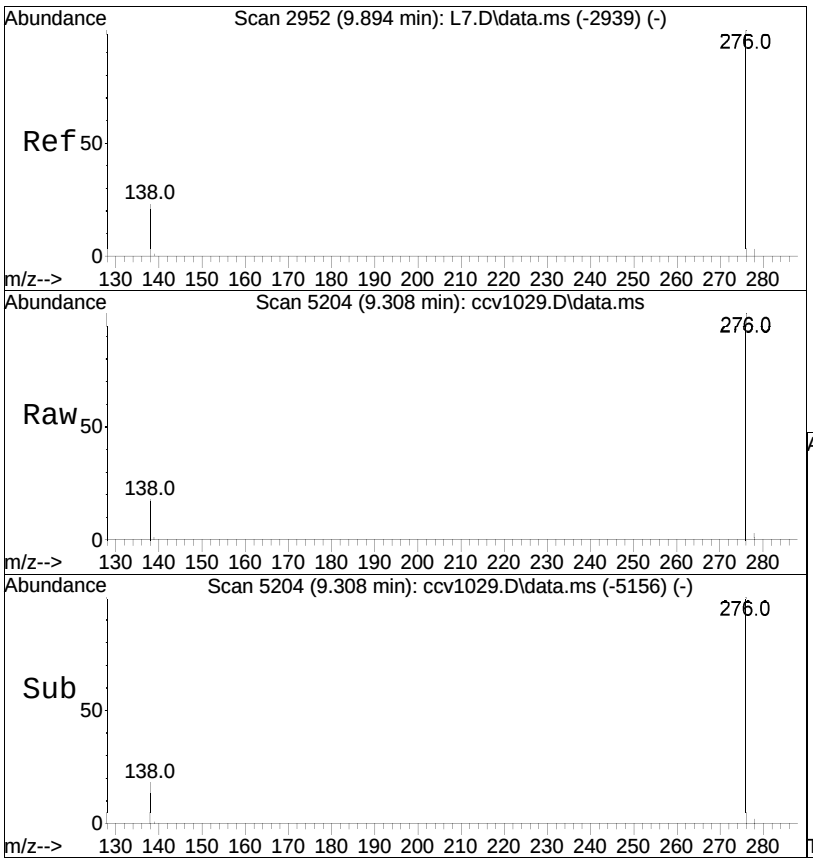


#39
Dibenzo[a,h]anthracene
Concen: 1016.29 ng/ml
RT: 9.104 min Scan# 5105
Delta R.T. 0.000 min
Lab File: ccv1029.D
Acq: 29 Oct 2020 07:39 am

Tgt Ion:278 Resp: 28940

Ion	Ratio	Lower	Upper
278	100		
139	13.5	28.1	42.1#

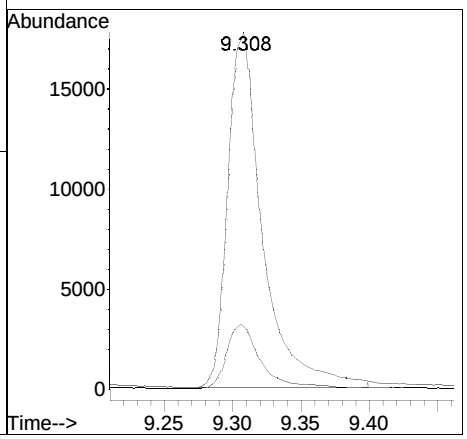




#40
Benzo[g,h,i]perylene
Concen: 962.30 ng/ml
RT: 9.308 min Scan# 5204
Delta R.T. 0.000 min
Lab File: ccv1029.D
Acq: 29 Oct 2020 07:39 am

Tgt Ion:276 Resp: 30919

Ion	Ratio	Lower	Upper
276	100		
138	18.0	34.9	52.3#



Manual Integration Report

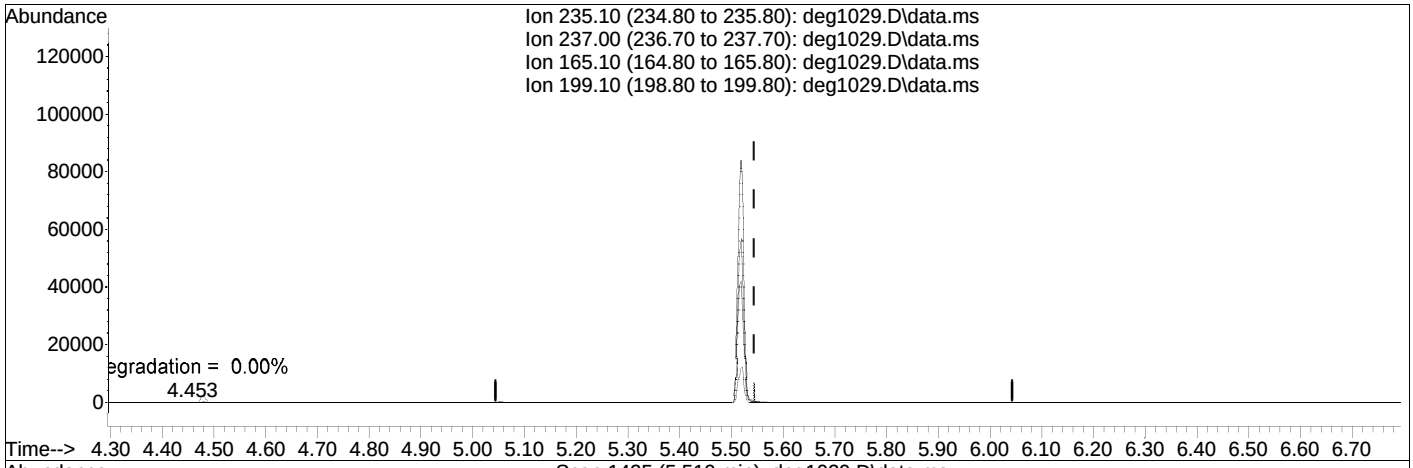
Data Path	: I:\8270SIM\sv119\201029LVI	Method	: SIM-LVI_200916_sv119.M
Data File	: ccv1029.D	Operator	: sv119:als
Date Inj'd	: 10/29/2020 7:39 am	Instrument	: SV119
Sample	: wg1427924-3,32,,CCV	Quant Date	: 10/29/2020 8:09 am

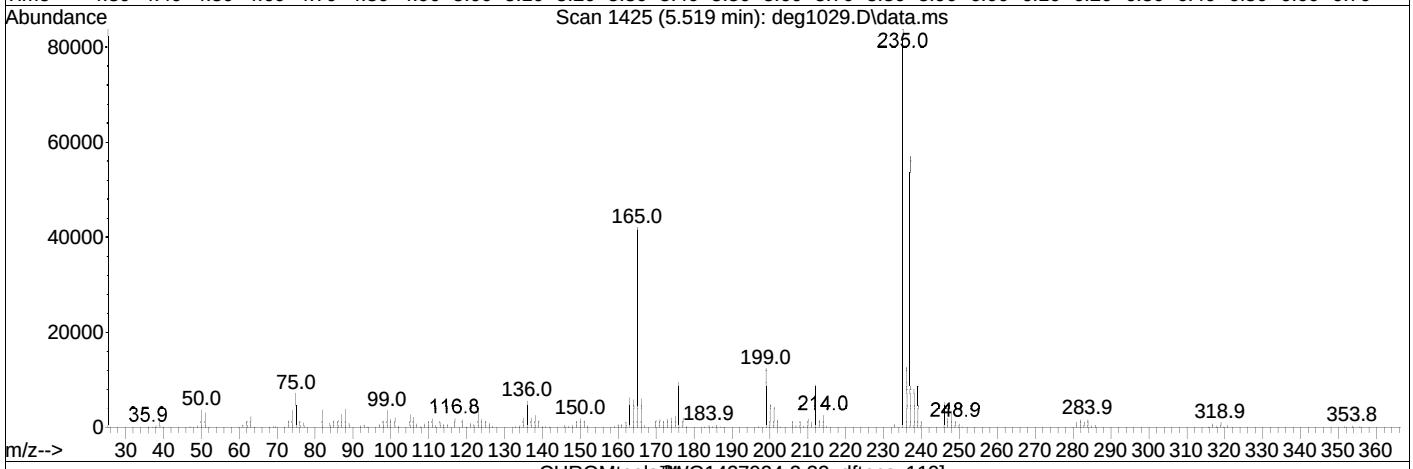
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\201029LVI\
Data File : deg1029.D
Acq On : 29 Oct 2020 07:20 am
Operator : sv119:als
Sample : WG1427924-2,32,,dftppsv119
Misc : WG1427924,,ical17132
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 29 07:34:23 2020
Quant Method : I:\8270SIM\sv119\201029LVI\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 15 09:43:02 2020
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





CHROMtools [WG1427924-2,32,,dftppsv119]

(6) ddt (T)

5.519min (+ 2.702) 10.16 ng/ml Avg

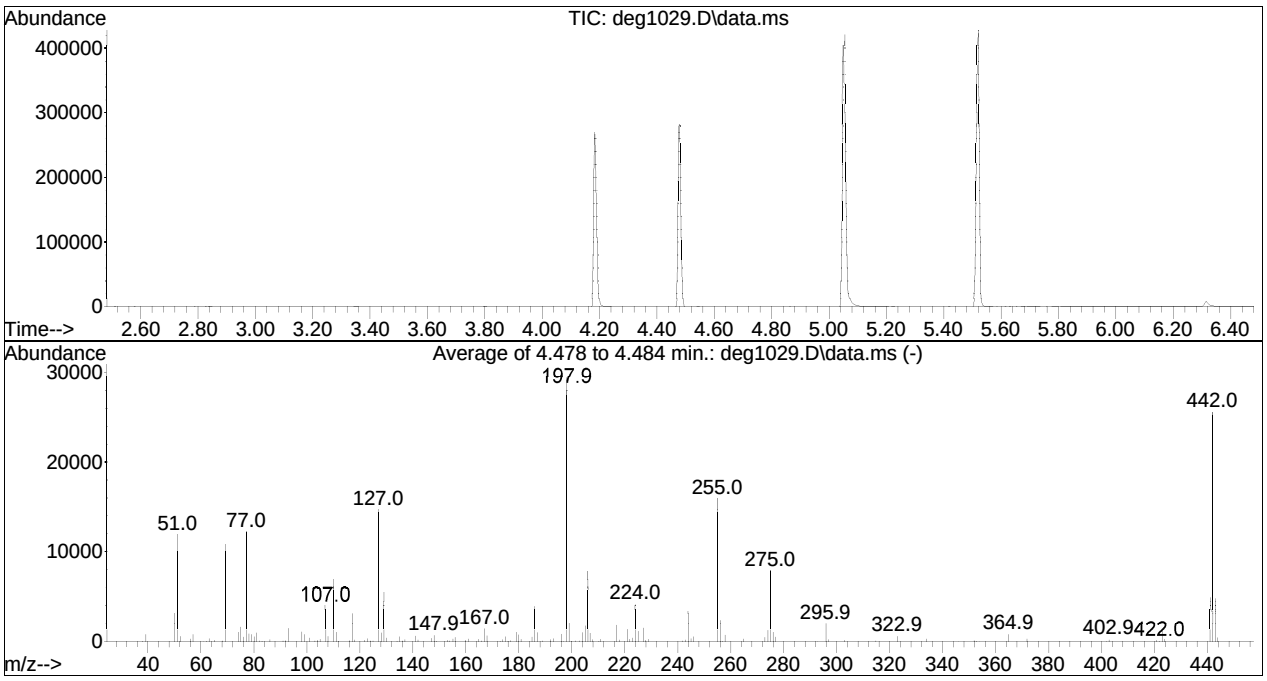
response 61951

Ion	Exp%	Act%
70.00	100.00	100.00
130.00	23.60	67.38
0.00	0.00	50.82
0.00	0.00	14.56

Data Path : I:\8270SIM\sv119\201029LVI\
Data File : deg1029.D
Acq On : 29 Oct 2020 07:20 am
Operator : sv119:als
Sample : WG1427924-1,32,,dftppsv119
Misc : WG1427924,,ical17132
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv119\201029LVI\SIM-LVI_200916_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Oct 29 08:09:20 2020



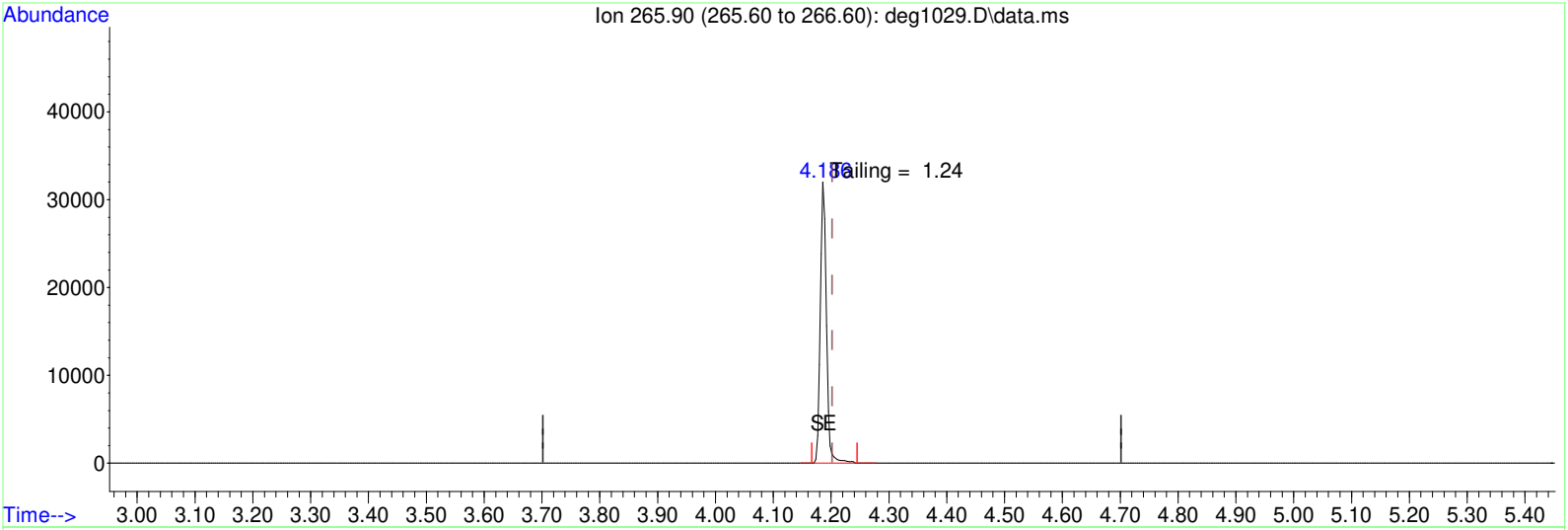
Spectrum Information: Average of 4.478 to 4.484 min.

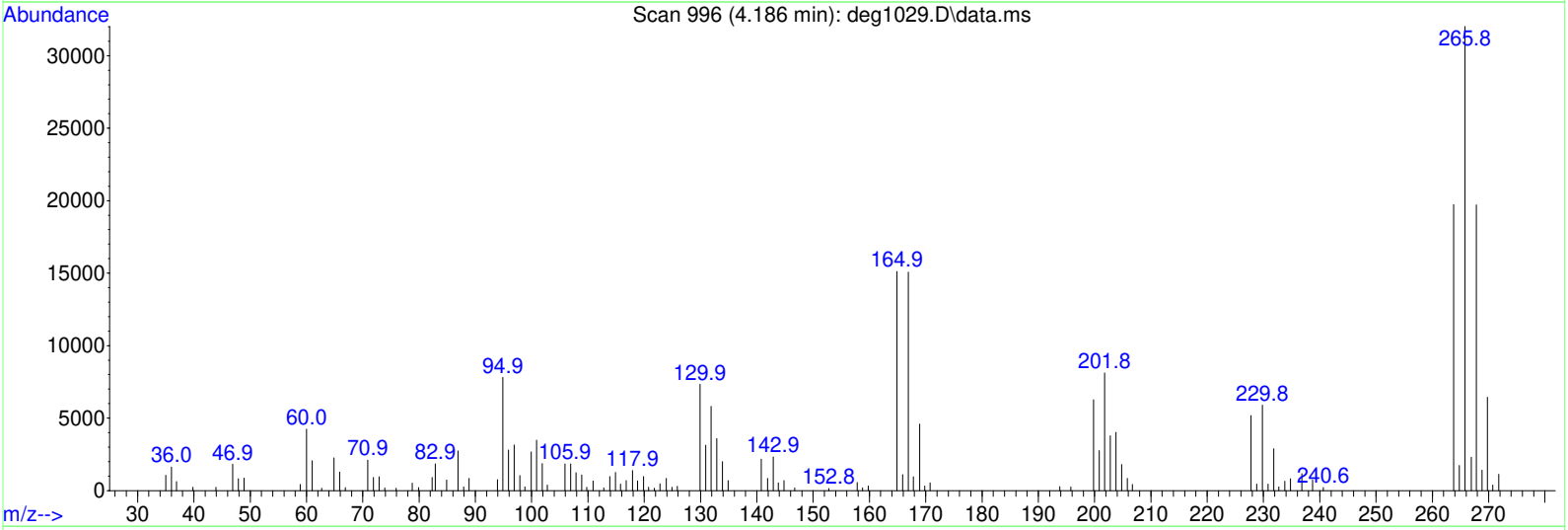
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	40.3	11858	PASS
68	69	0.00	2	1.3	143	PASS
69	69	100	100	100.0	10830	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	49.9	14674	PASS
197	198	0.00	2	0.3	77	PASS
198	198	100	100	100.0	29413	PASS
199	198	5	9	6.8	2008	PASS
275	198	10	60	26.8	7888	PASS
365	198	1	100	2.8	833	PASS
441	442	0.01	24	19.3	4923	PASS
442	198	50	100	86.9	25568	PASS
443	442	15	24	18.9	4828	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\201029LVI\
Data File : deg1029.D
Acq On : 29 Oct 2020 07:20 am
Operator : sv119:
Sample : wg-1,32,,dftppsv119
Misc : wg,,ical17132
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 29 07:34:23 2020
Quant Method : I:\8270SIM\sv119\201029LVI\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 15 09:43:02 2020
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg1029.D\data.ms

(1) pentachlorophenol (T)

4.186min (-0.016) 11.28 Lin

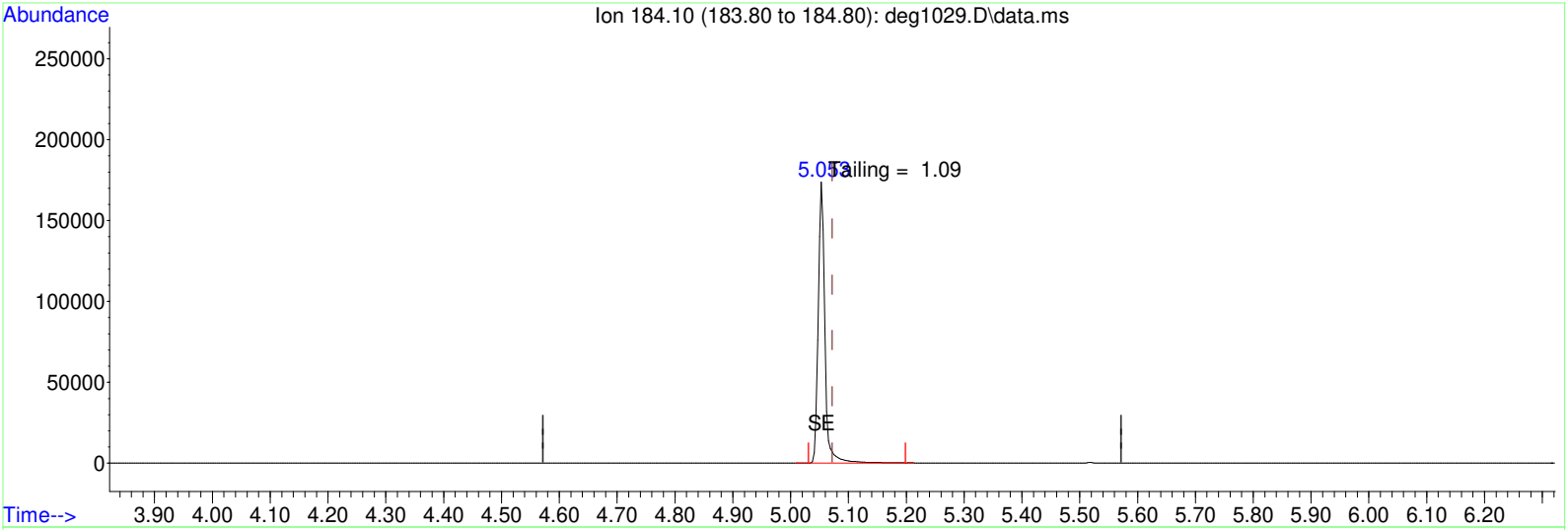
response 23691

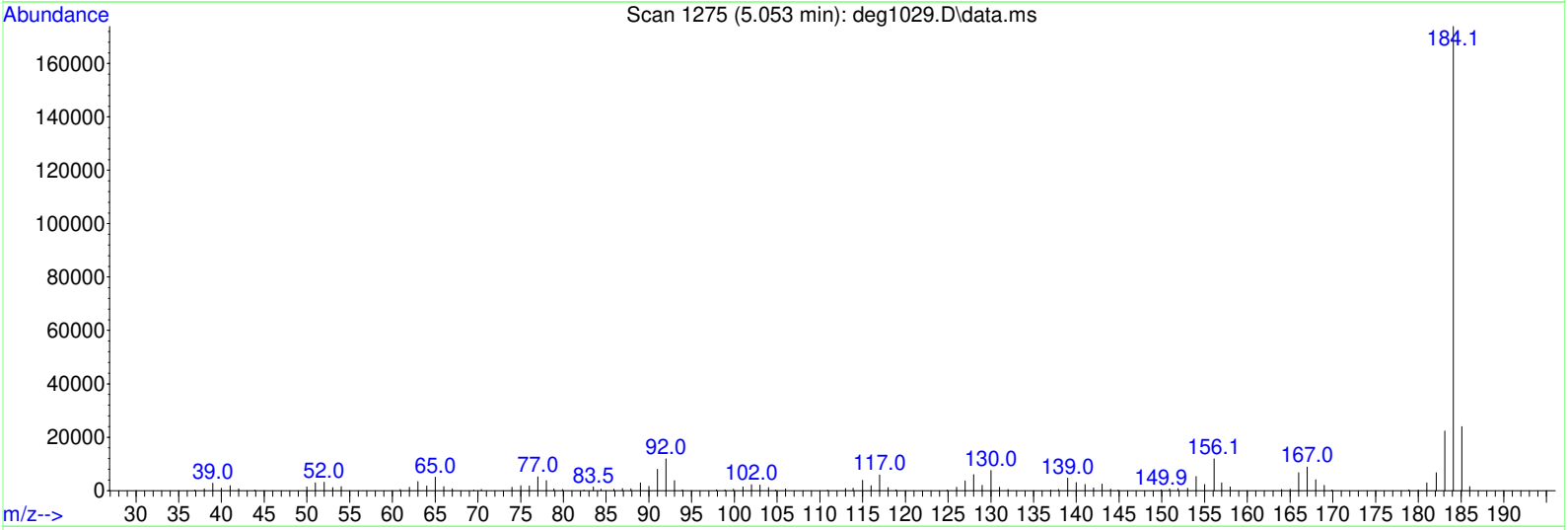
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\201029LVI\
Data File : deg1029.D
Acq On : 29 Oct 2020 07:20 am
Operator : sv119:
Sample : wg-1,32,,dftppsv119
Misc : wg,,ical17132
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 29 07:34:23 2020
Quant Method : I:\8270SIM\sv119\201029LVI\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 15 09:43:02 2020
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg1029.D\data.ms

(3) benzidine (T)

5.053min (-0.019) 13.80 Lin

response 140437

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\201029LVI\
Data File : 427426-1.D
Acq On : 29 Oct 2020 08:21 am
Operator : sv119:dv
Sample : WG1427426-1,32,,nytcl,jjw
Misc : WG1427924,WG1427426,ical17132
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 29 12:53:25 2020
Quant Method : I:\8270SIM\sv119\201029LVI\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 08:09:20 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\201029LVI\ccv1029.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	2.544	152	21657	4000.000 ng/ml	0.00
Standard Area 1 = 22118			Recovery = 97.92%		
9) Naphthalene-d8	3.337	136	78204	4000.000 ng/ml #	0.00
Standard Area 1 = 81355			Recovery = 96.13%		
17) Acenaphthene-d10	4.497	164	45608	4000.000 ng/ml	0.00
Standard Area 1 = 49629			Recovery = 91.90%		
21) Phenanthrene-d10	5.486	188	96827	4000.000 ng/ml #	0.00
Standard Area 1 = 107834			Recovery = 89.79%		
30) Chrysene-d12	7.273	240	94441	4000.000 ng/ml #	0.00
Standard Area 1 = 112549			Recovery = 83.91%		
34) Perylene-d12	8.208	264	97789	4000.000 ng/ml	0.00
Standard Area 1 = 113755			Recovery = 85.96%		
System Monitoring Compounds					
3) 2-Fluorophenol	1.800	112	14574	2714.014 ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 54280.28%#		
4) Phenol-d6	2.360	99	13725	2173.776 ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 43475.52%#		
8) Nitrobenzene-d5	2.893	82	10501	1877.348 ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 75093.92%#		
14) 2-Fluorobiphenyl	4.069	172	35830	2183.700 ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 87348.00%#		
20) 2,4,6-Tribromophenol	5.029	330	9074	3472.456 ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 69449.12%#		
29) 4-Terphenyl-d14	6.595	244	49836	2661.539 ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 106461.56%#		
Target Compounds					Qvalue
10) Naphthalene	0.000		0	N.D. d	
16) Acenaphthylene	0.000		0	N.D.	
18) Acenaphthene	0.000		0	N.D.	
19) Fluorene	0.000		0	N.D. d	
23) Hexachlorobenzene	0.000		0	N.D.	
24) Pentachlorophenol	0.000		0	N.D.	
25) Phenanthrene	5.502	178	107	4.015 ng/ml#	1
26) Anthracene	0.000		0	N.D. d	
27) Fluoranthene	0.000		0	N.D. d	
28) Pyrene	0.000		0	N.D. d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\201029LVI\
Data File : 427426-1.D
Acq On : 29 Oct 2020 08:21 am
Operator : sv119:dv
Sample : WG1427426-1,32,,nytcl,jjw
Misc : WG1427924,WG1427426,ical17132
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 29 12:53:25 2020
Quant Method : I:\8270SIM\sv119\201029LVI\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 08:09:20 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\201029LVI\ccv1029.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Benzo[a]anthracene	0.000		0	N.D.	d	
32) Chrysene	0.000		0	N.D.	d	
35) Benzo[b]fluoranthene	0.000		0	N.D.		
36) Benzo[k]fluoranthene	0.000		0	N.D.		
37) Benzo[a]pyrene	0.000		0	N.D.	d	
38) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
39) Dibenzo[a,h]anthracene	0.000		0	N.D.		
40) Benzo[g,h,i]perylene	0.000		0	N.D.		

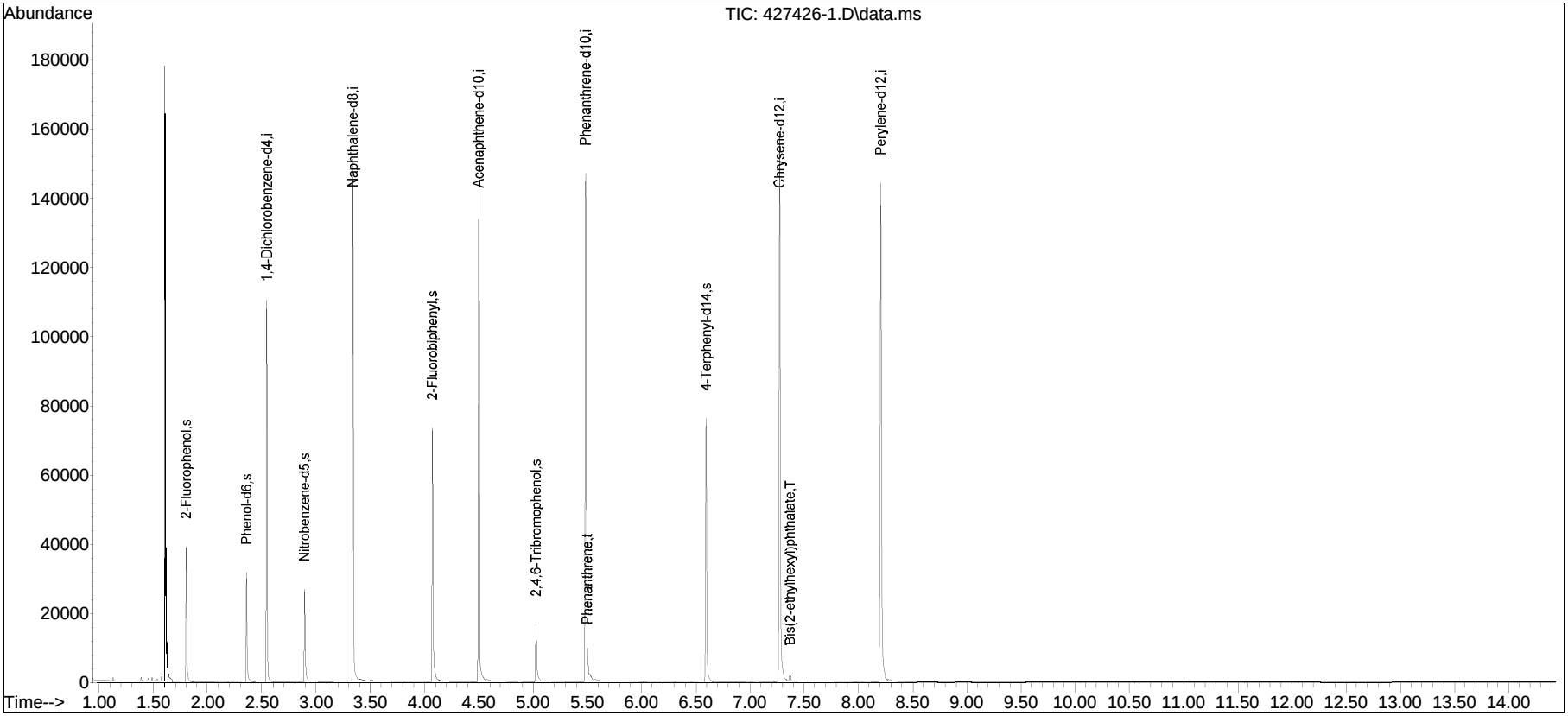
(#) = qualifier out of range (m) = manual integration (+) = signals summed

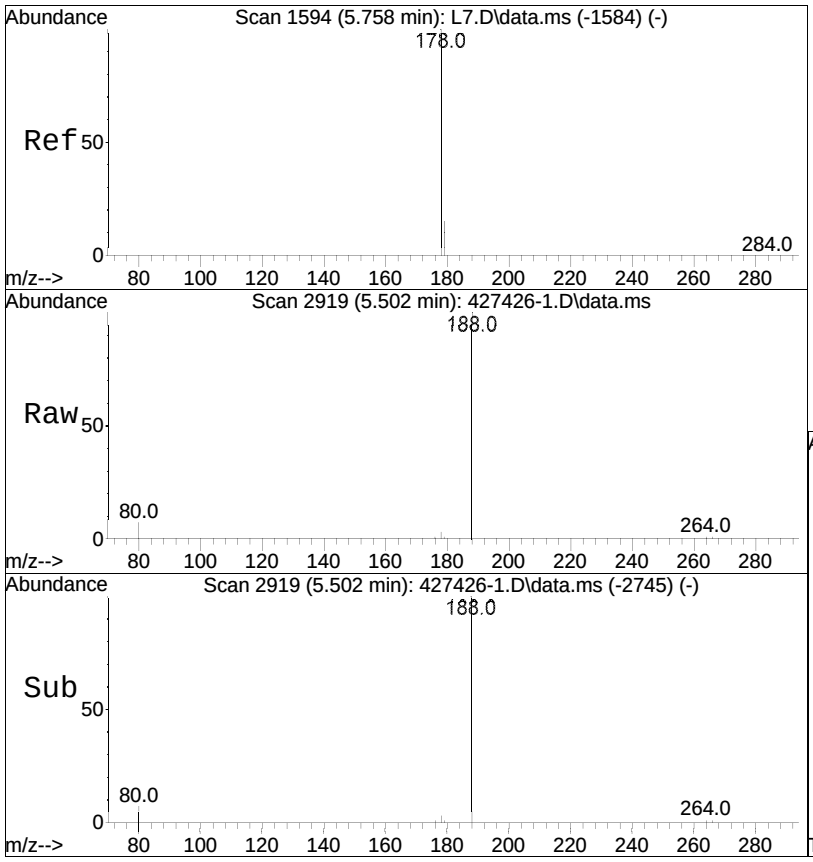
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\201029LVI\
Data File : 427426-1.D
Acq On : 29 Oct 2020 08:21 am
Operator : sv119:dv
Sample : WG1427426-1,32,,nytcl,jjw
Misc : WG1427924,WG1427426,ical17132
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 29 12:53:25 2020
Quant Method : I:\8270SIM\sv119\201029LVI\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 08:09:20 2020
Response via : Initial Calibration

Sub List : Default - All compounds listed\ccv1029.D•

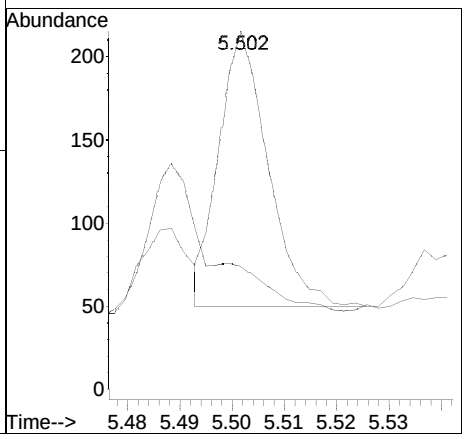




#25
Phenanthrene
Concen: 4.02 ng/ml
RT: 5.502 min Scan# 2919
Delta R.T. -0.002 min
Lab File: 427426-1.D
Acq: 29 Oct 2020 08:21 am

Tgt Ion:178 Resp: 107

Ion	Ratio	Lower	Upper
178	100		
179	71.0	12.5	18.7#



Manual Integration Report

Data Path	: I:\8270SIM\sv119\201029LVI	QMethod	: SIM-LVI_200916_sv119.M
Data File	: 427426-1.D	Operator	: sv119:dv
Date Inj'd	: 10/29/2020 8:21 am	Instrument	: SV119
Sample	: WG1427426-1,32,,nytcl,jjw	Quant Date	: 10/29/2020 12:52 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\201029LVI\
Data File : 427426-2.D
Acq On : 29 Oct 2020 08:42 am
Operator : sv119:dv
Sample : WG1427426-2,32,,nytcl,jjw
Misc : WG1427924,WG1427426,ical17132
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 29 12:54:09 2020
Quant Method : I:\8270SIM\sv119\201029LVI\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 08:09:20 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\201029LVI\ccv1029.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	2.544	152	22045	4000.000	ng/ml		0.00
Standard Area 1 = 22118			Recovery = 99.67%				
9) Naphthalene-d8	3.337	136	80683	4000.000	ng/ml	#	0.00
Standard Area 1 = 81355			Recovery = 99.17%				
17) Acenaphthene-d10	4.497	164	47732	4000.000	ng/ml		0.00
Standard Area 1 = 49629			Recovery = 96.18%				
21) Phenanthrene-d10	5.486	188	99326	4000.000	ng/ml	#	0.00
Standard Area 1 = 107834			Recovery = 92.11%				
30) Chrysene-d12	7.276	240	98271	4000.000	ng/ml	#	0.00
Standard Area 1 = 112549			Recovery = 87.31%				
34) Perylene-d12	8.209	264	97732	4000.000	ng/ml		0.00
Standard Area 1 = 113755			Recovery = 85.91%				
System Monitoring Compounds							
3) 2-Fluorophenol	1.803	112	15404	2818.091	ng/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 56361.82%#				
4) Phenol-d6	2.360	99	15173	2360.816	ng/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 47216.32%#				
8) Nitrobenzene-d5	2.893	82	10751	1888.214	ng/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 75528.56%#				
14) 2-Fluorobiphenyl	4.069	172	35564	2100.892	ng/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 84035.68%#				
20) 2,4,6-Tribromophenol	5.029	330	11206	4097.510	ng/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 81950.20%#				
29) 4-Terphenyl-d14	6.595	244	49435	2573.699	ng/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 102947.96%#				
Target Compounds							Qvalue
10) Naphthalene	3.351	128	14629	705.226	ng/ml		100
16) Acenaphthylene	4.398	152	17594	788.196	ng/ml		99
18) Acenaphthene	4.518	153	12194	733.969	ng/ml		97
19) Fluorene	4.866	166	13401	791.322	ng/ml		100
23) Hexachlorobenzene	5.233	284	4708	736.529	ng/ml		87
24) Pentachlorophenol	5.379	266	2895	1442.179	ng/ml		95
25) Phenanthrene	5.502	178	21742	795.313	ng/ml		100
26) Anthracene	5.537	178	21374	821.974	ng/ml		99
27) Fluoranthene	6.303	202	26180	894.834	ng/ml#		91
28) Pyrene	6.449	202	26582	877.683	ng/ml		98

Data Path : I:\8270SIM\sv119\201029LVI\
Data File : 427426-2.D
Acq On : 29 Oct 2020 08:42 am
Operator : sv119:dv
Sample : WG1427426-2,32,,nytcl,jjw
Misc : WG1427924,WG1427426,ical17132
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 29 12:54:09 2020
Quant Method : I:\8270SIM\sv119\201029LVI\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 08:09:20 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\201029LVI\ccv1029.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Benzo[a]anthracene	7.267	228	24808	811.069	ng/ml#	81
32) Chrysene	7.291	228	27625	862.104	ug/ml	97
35) Benzo[b]fluoranthene	7.953	252	25347	831.852	ng/ml	99
36) Benzo[k]fluoranthene	7.970	252	28046	909.436	ng/ml	98
37) Benzo[a]pyrene	8.166	252	22031	843.215	ng/ml	100
38) Indeno[1,2,3-cd]pyrene	9.066	276	21868	889.191	ng/ml#	62
39) Dibenzo[a,h]anthracene	9.099	278	22865M6	934.594	ng/ml	
40) Benzo[g,h,i]perylene	9.305	276	25020	906.367	ng/ml#	60

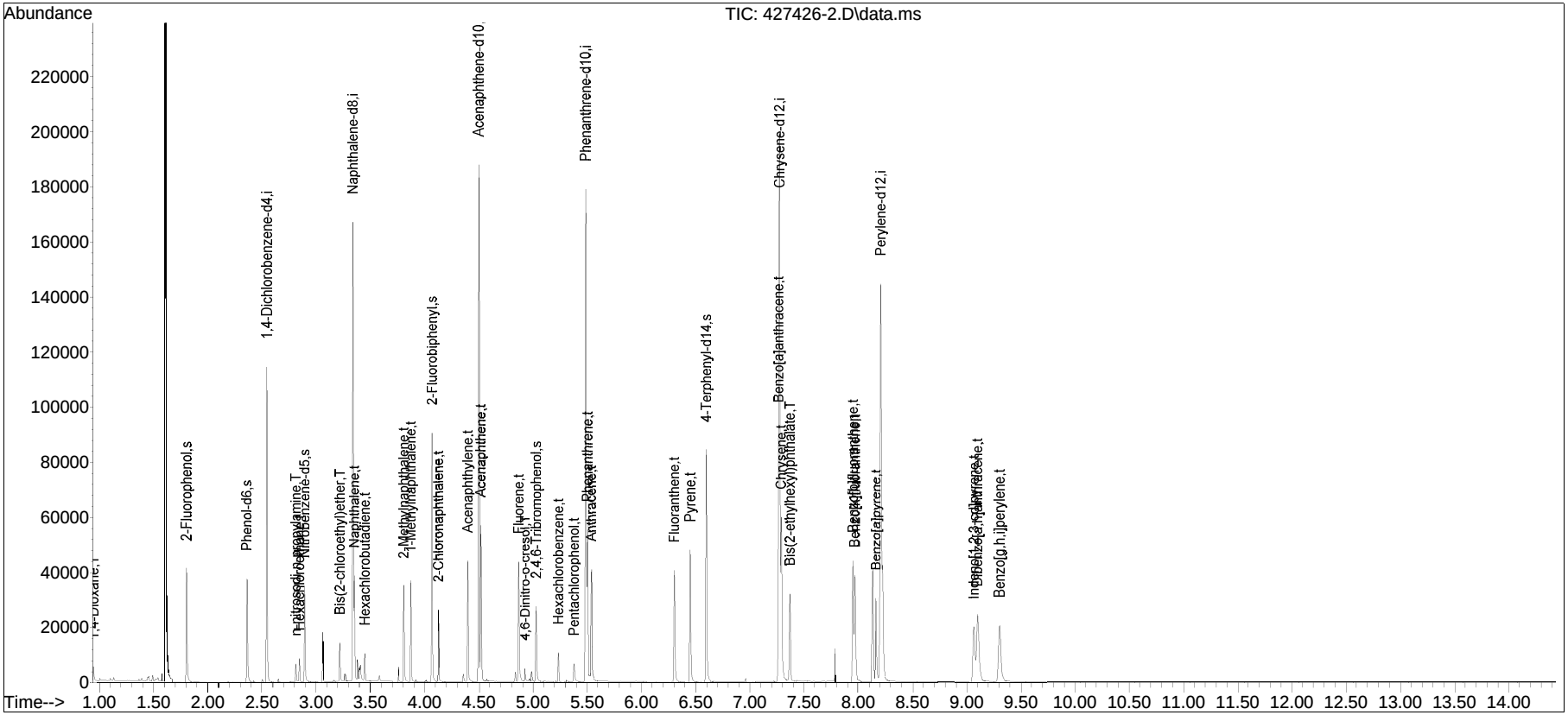
(#) = qualifier out of range (m) = manual integration (+) = signals summed

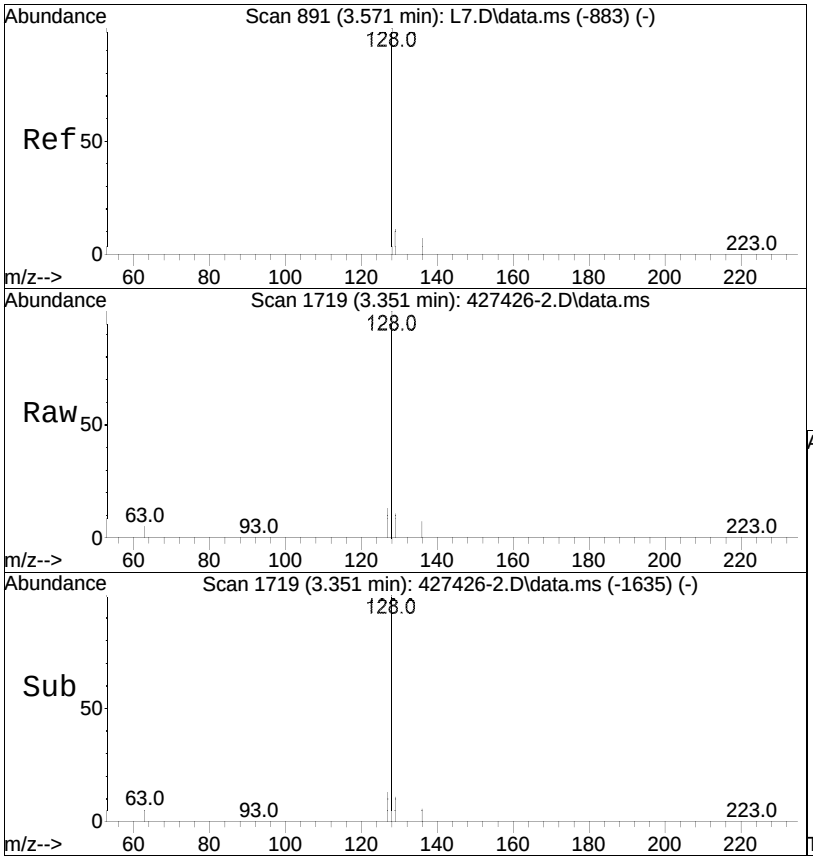
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\201029LVI\
Data File : 427426-2.D
Acq On : 29 Oct 2020 08:42 am
Operator : sv119:dv
Sample : WG1427426-2,32,,nytcl,jjw
Misc : WG1427924,WG1427426,ical17132
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 29 12:54:09 2020
Quant Method : I:\8270SIM\sv119\201029LVI\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 08:09:20 2020
Response via : Initial Calibration

Sub List : Default - All compounds listed\ccv1029.D•

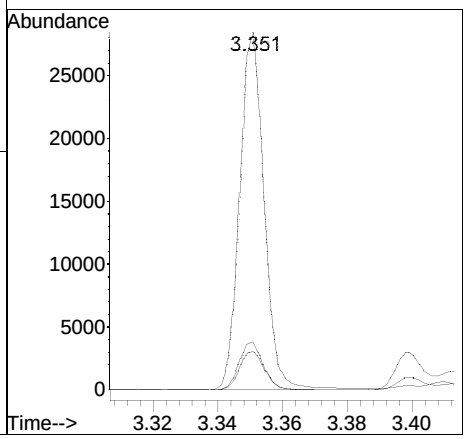


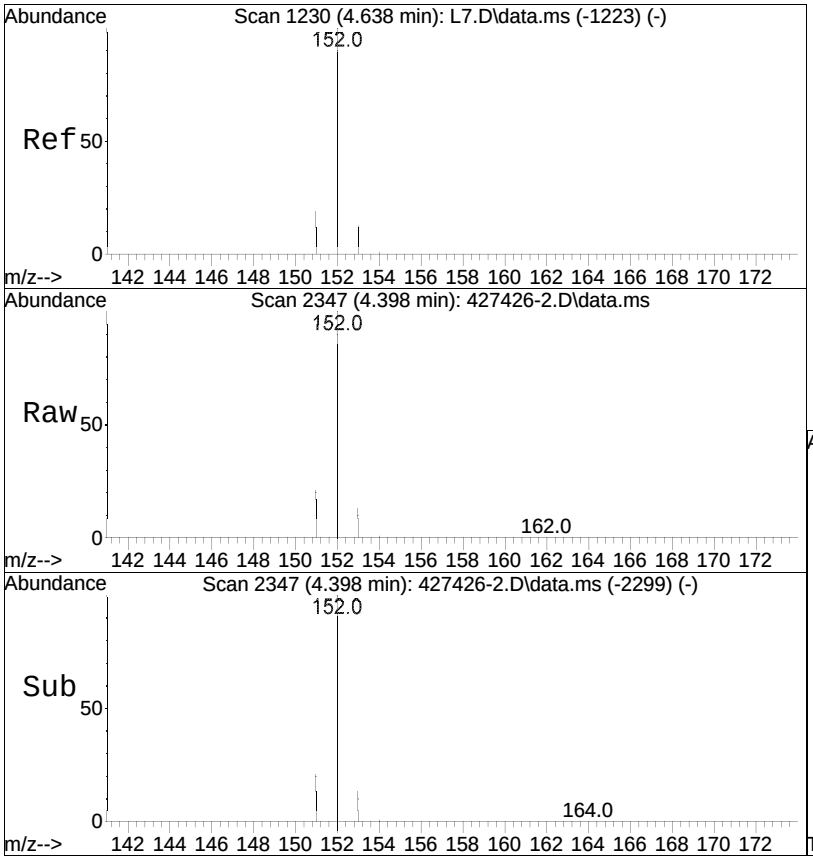


#10
Naphthalene
Concen: 705.23 ng/ml
RT: 3.351 min Scan# 1719
Delta R.T. -0.002 min
Lab File: 427426-2.D
Acq: 29 Oct 2020 08:42 am

Tgt Ion:128 Resp: 14629

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	13.3	10.6	16.0

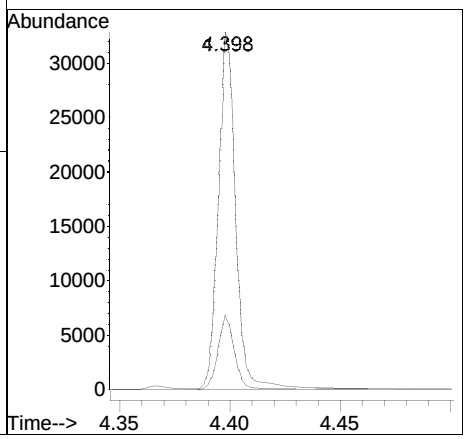


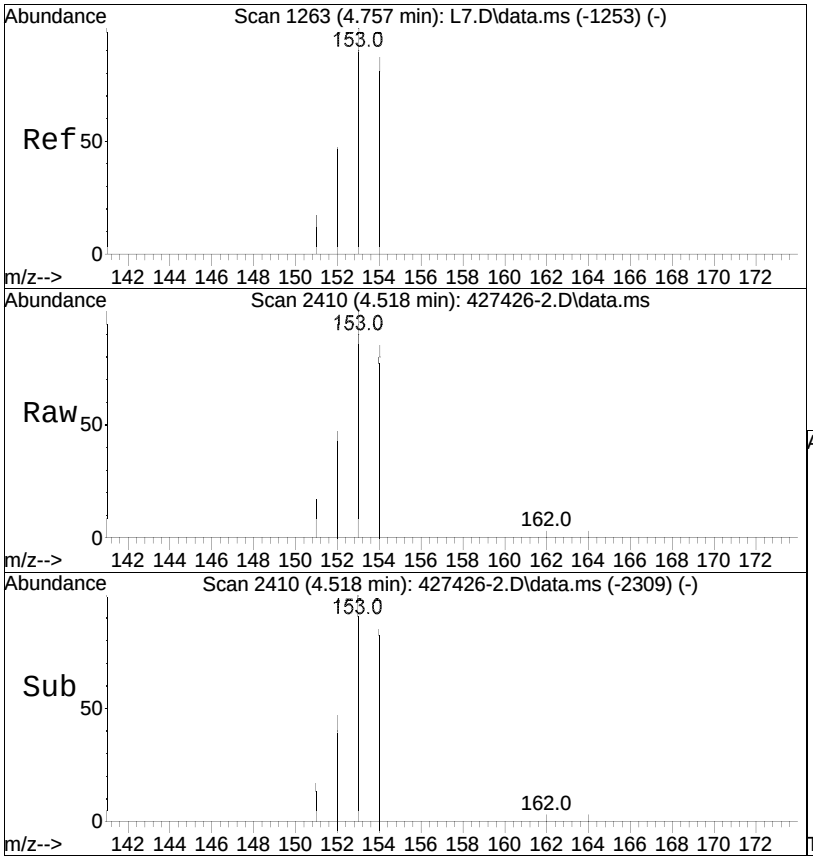


#16
Acenaphthylene
Concen: 788.20 ng/ml
RT: 4.398 min Scan# 2347
Delta R.T. -0.004 min
Lab File: 427426-2.D
Acq: 29 Oct 2020 08:42 am

Tgt Ion:152 Resp: 17594

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.3	24.5

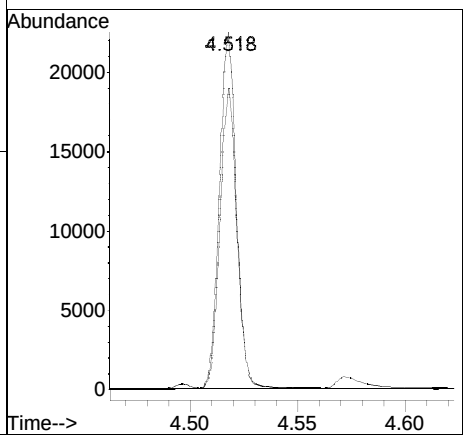


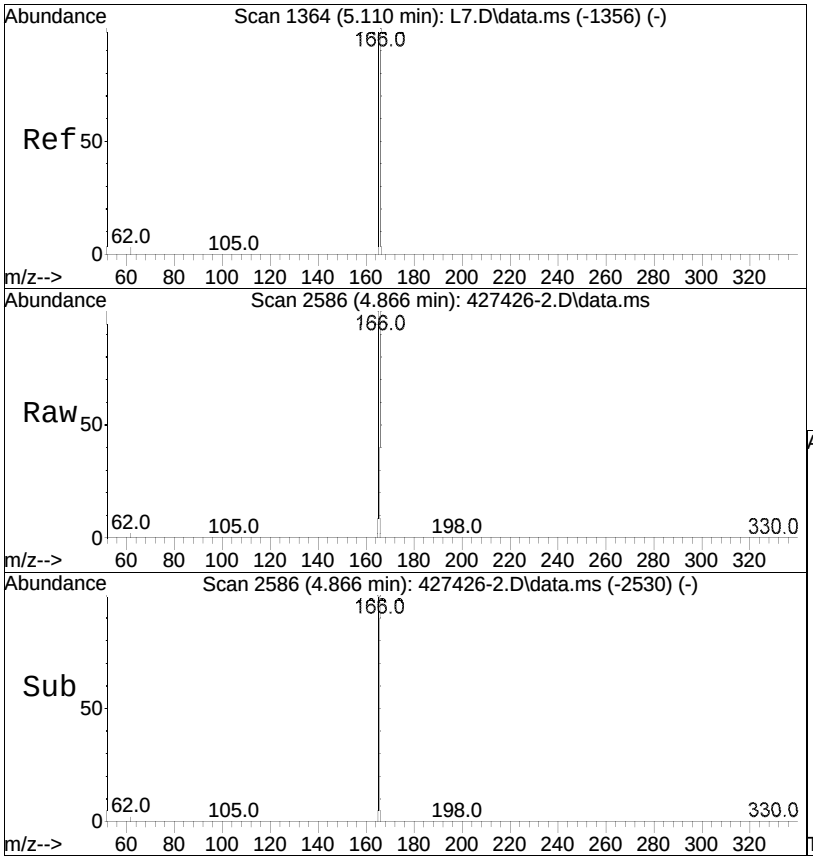


#18
Acenaphthene
Concen: 733.97 ng/ml
RT: 4.518 min Scan# 2410
Delta R.T. -0.002 min
Lab File: 427426-2.D
Acq: 29 Oct 2020 08:42 am

Tgt Ion:153 Resp: 12194

Ion	Ratio	Lower	Upper
153	100		
154	84.5	69.8	104.8

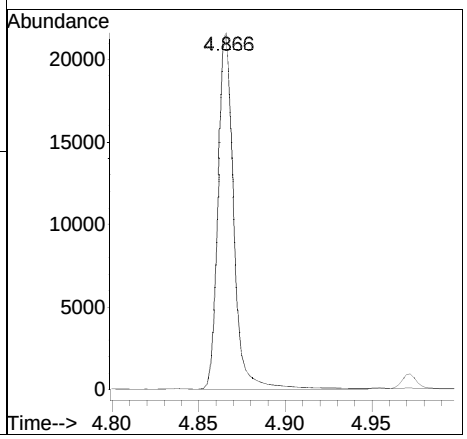


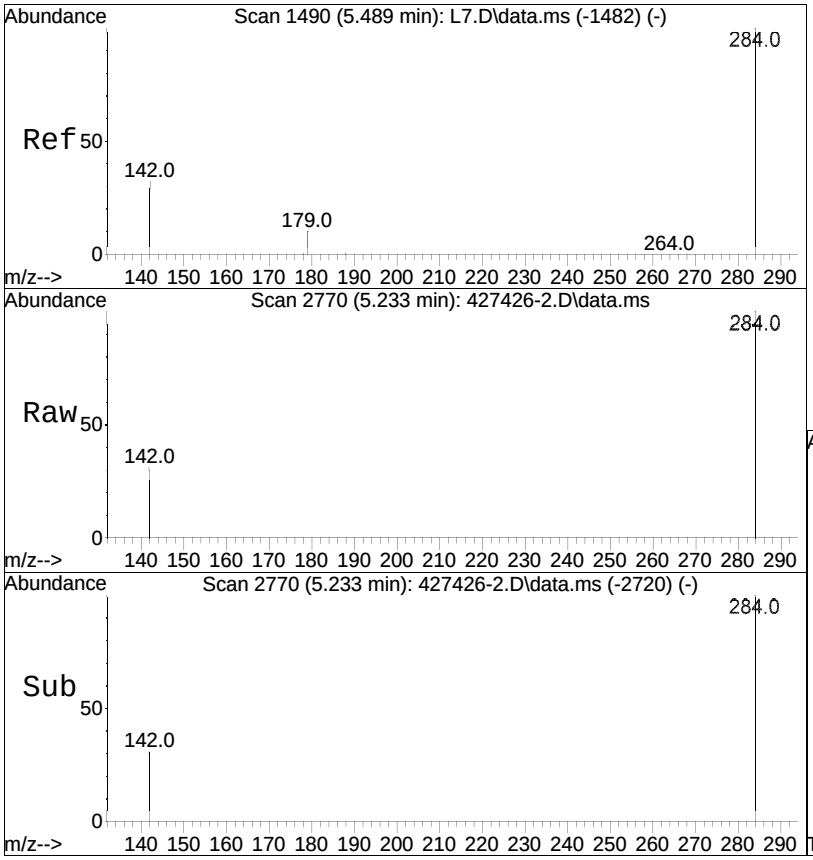


#19
Fluorene
Concen: 791.32 ng/ml
RT: 4.866 min Scan# 2586
Delta R.T. -0.002 min
Lab File: 427426-2.D
Acq: 29 Oct 2020 08:42 am

Tgt Ion:166 Resp: 13401

Ion	Ratio	Lower	Upper
166	100		
165	101.0	80.9	121.3

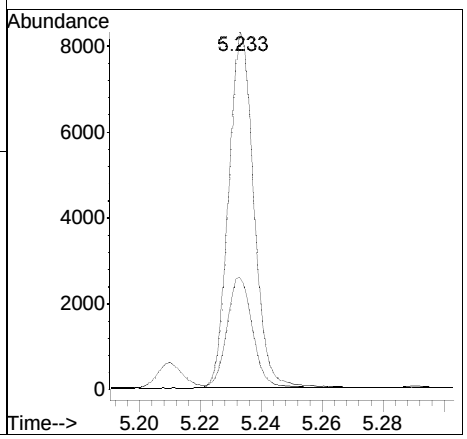


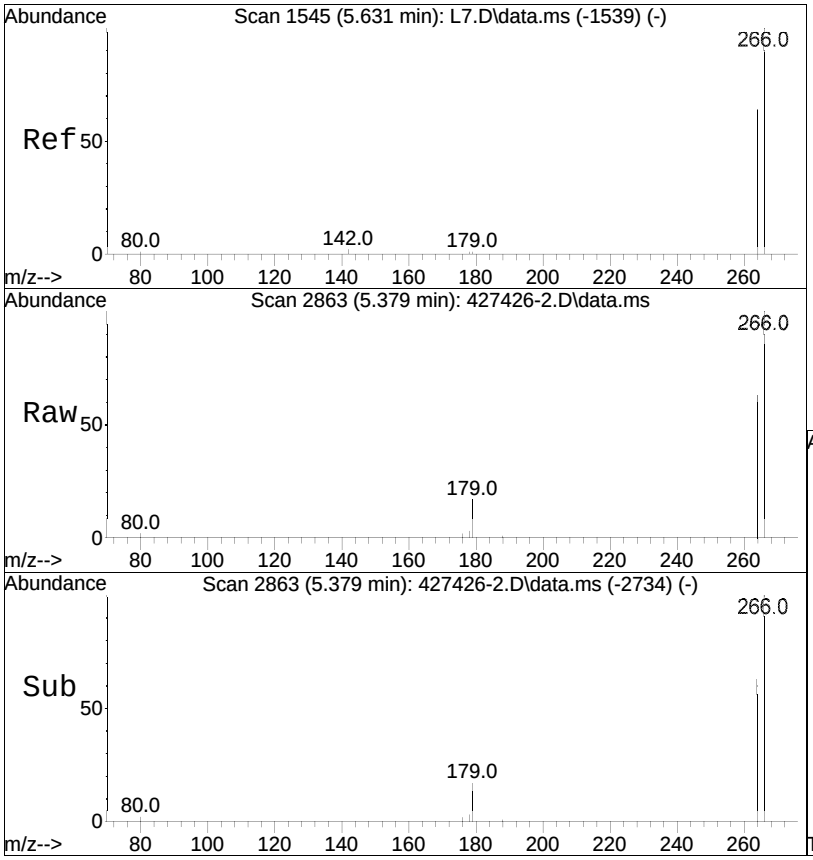


#23
Hexachlorobenzene
Concen: 736.53 ng/ml
RT: 5.233 min Scan# 2770
Delta R.T. -0.003 min
Lab File: 427426-2.D
Acq: 29 Oct 2020 08:42 am

Tgt Ion:284 Resp: 4708

Ion	Ratio	Lower	Upper
284	100		
142	31.3	31.2	46.8

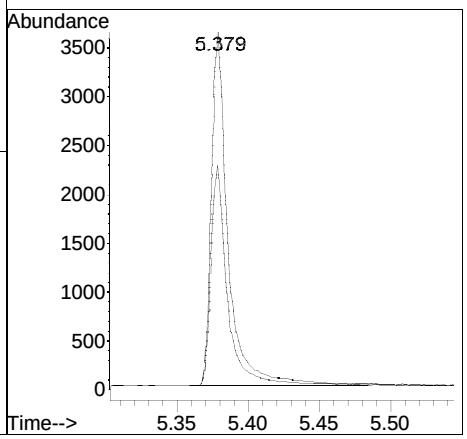


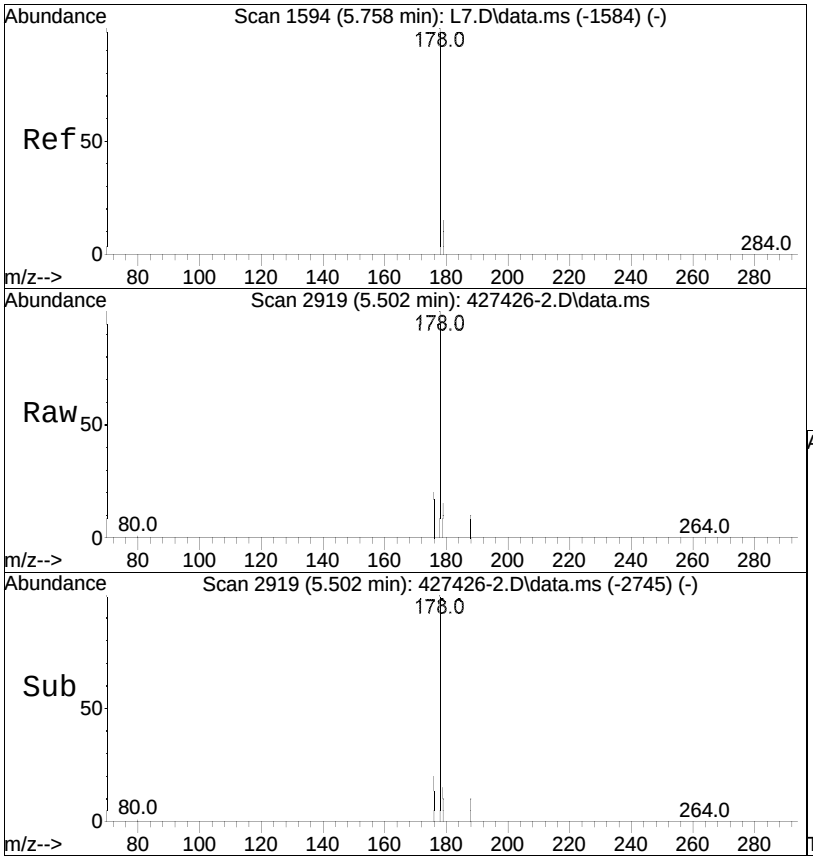


#24
Pentachlorophenol
Concen: 1442.18 ng/ml
RT: 5.379 min Scan# 2863
Delta R.T. -0.004 min
Lab File: 427426-2.D
Acq: 29 Oct 2020 08:42 am

Tgt Ion:266 Resp: 2895

Ion	Ratio	Lower	Upper
266	100		
264	59.8	50.9	76.3

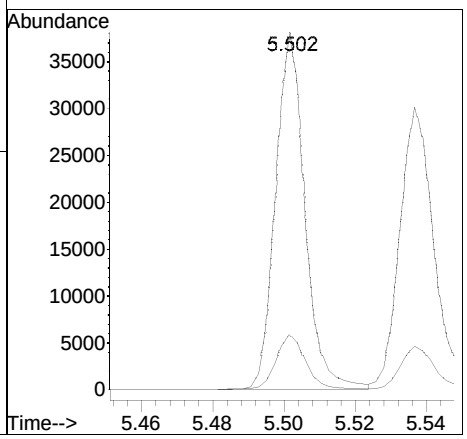


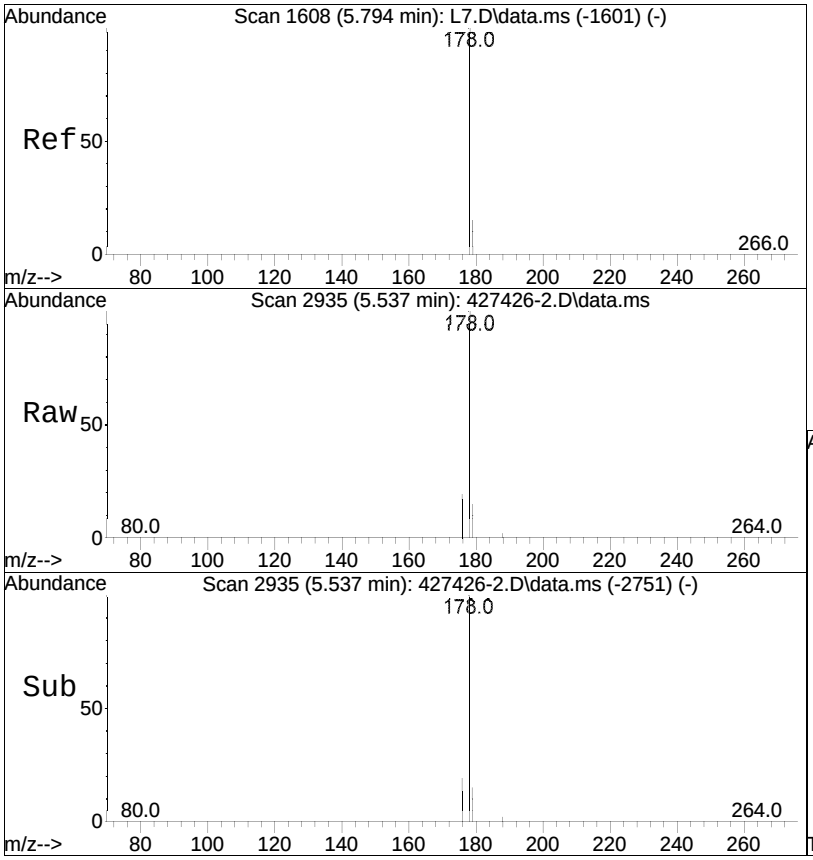


#25
Phenanthrene
Concen: 795.31 ng/ml
RT: 5.502 min Scan# 2919
Delta R.T. -0.002 min
Lab File: 427426-2.D
Acq: 29 Oct 2020 08:42 am

Tgt Ion:178 Resp: 21742

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.5	18.7

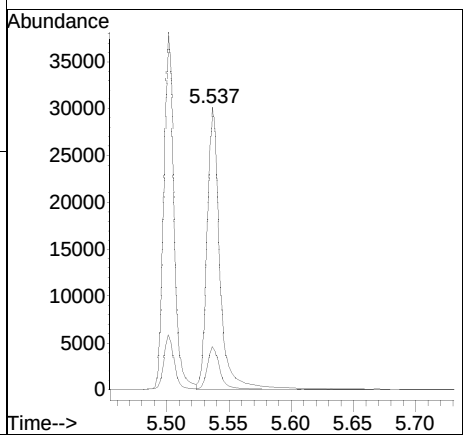


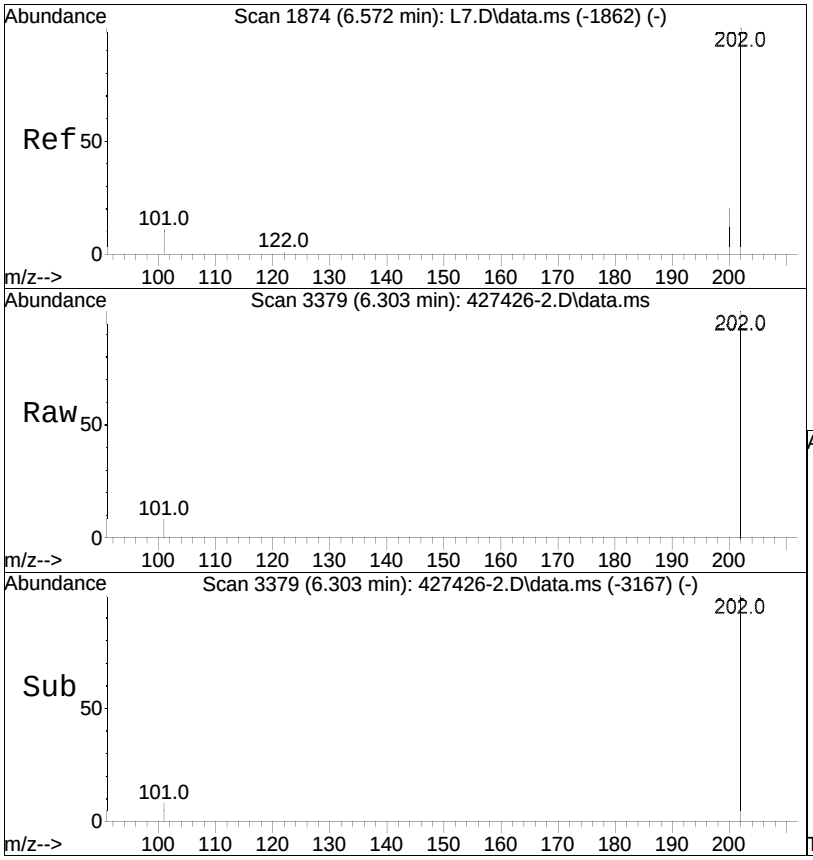


#26
Anthracene
Concen: 821.97 ng/ml
RT: 5.537 min Scan# 2935
Delta R.T. -0.002 min
Lab File: 427426-2.D
Acq: 29 Oct 2020 08:42 am

Tgt Ion:178 Resp: 21374

Ion	Ratio	Lower	Upper
178	100		
179	14.7	12.2	18.4

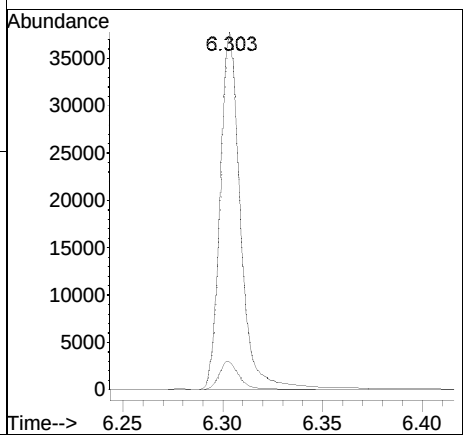


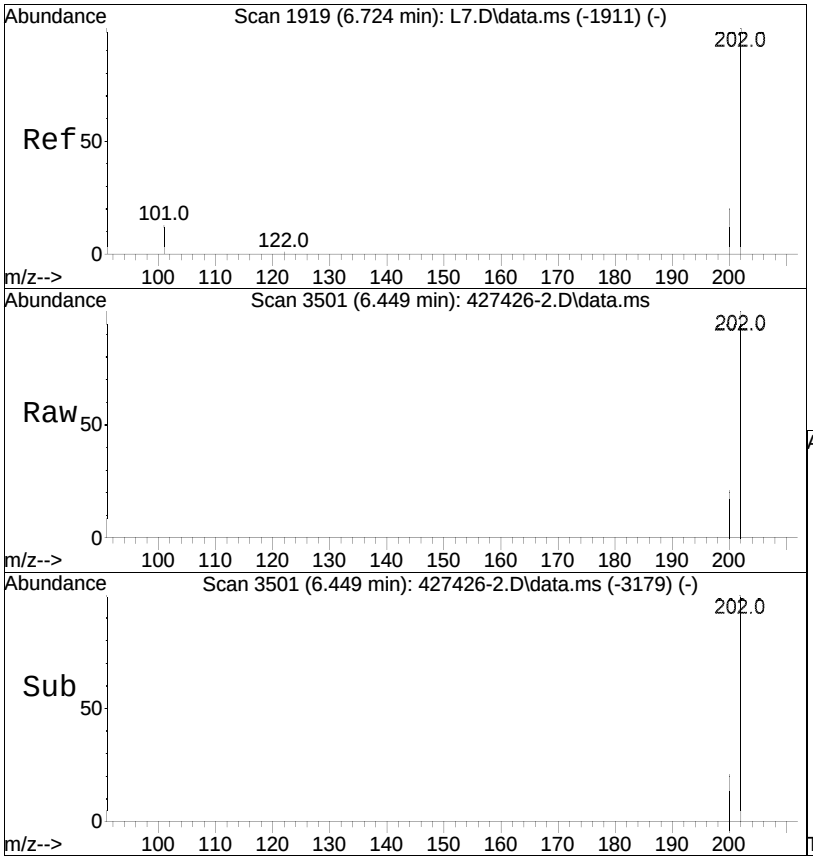


#27
Fluoranthene
Concen: 894.83 ng/ml
RT: 6.303 min Scan# 3379
Delta R.T. -0.002 min
Lab File: 427426-2.D
Acq: 29 Oct 2020 08:42 am

Tgt Ion:202 Resp: 26180

Ion	Ratio	Lower	Upper
202	100		
101	7.7	8.9	13.3#

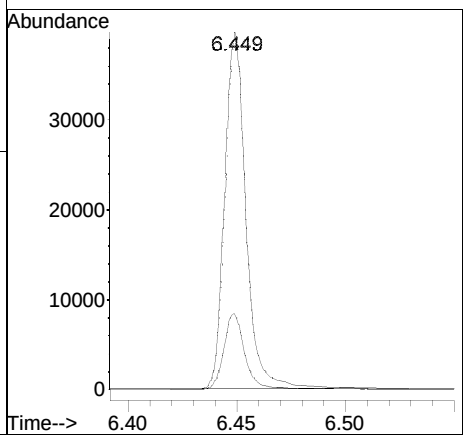


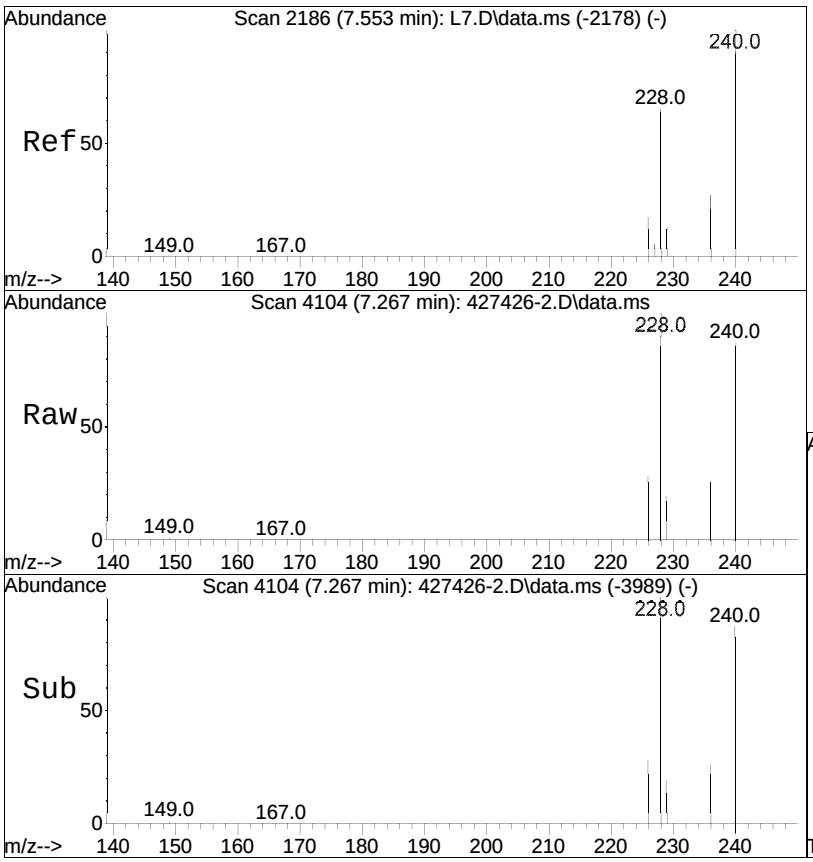


#28
Pyrene
Concen: 877.68 ng/ml
RT: 6.449 min Scan# 3501
Delta R.T. -0.003 min
Lab File: 427426-2.D
Acq: 29 Oct 2020 08:42 am

Tgt Ion:202 Resp: 26582

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.6	26.4

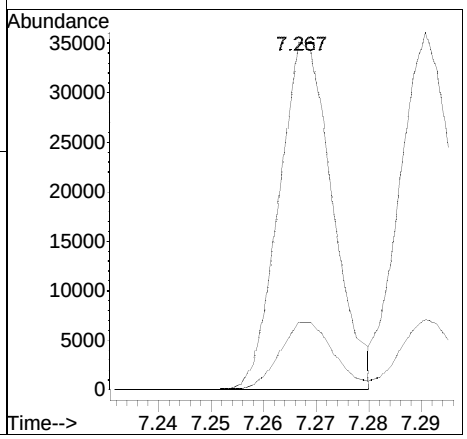


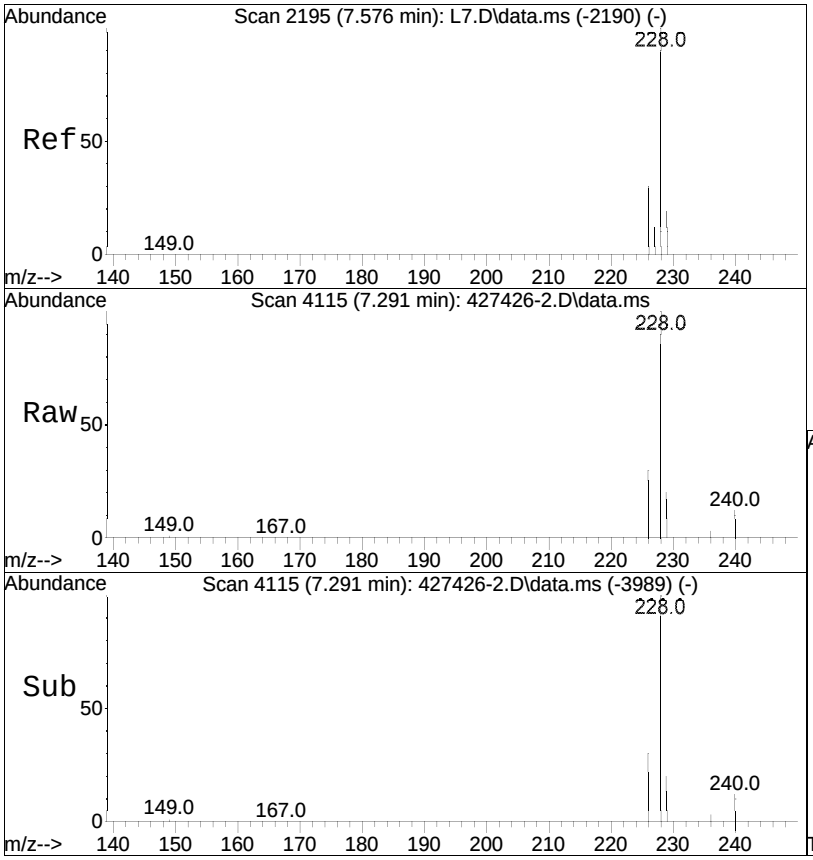


#31
Benzo[a]anthracene
Concen: 811.07 ng/ml
RT: 7.267 min Scan# 4104
Delta R.T. -0.003 min
Lab File: 427426-2.D
Acq: 29 Oct 2020 08:42 am

Tgt Ion:228 Resp: 24808

Ion	Ratio	Lower	Upper
228	100		
229	19.6	24.1	36.1#

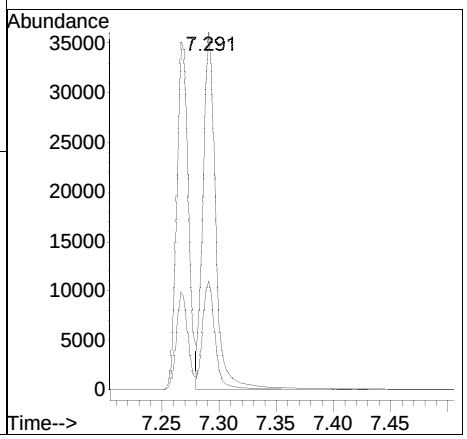


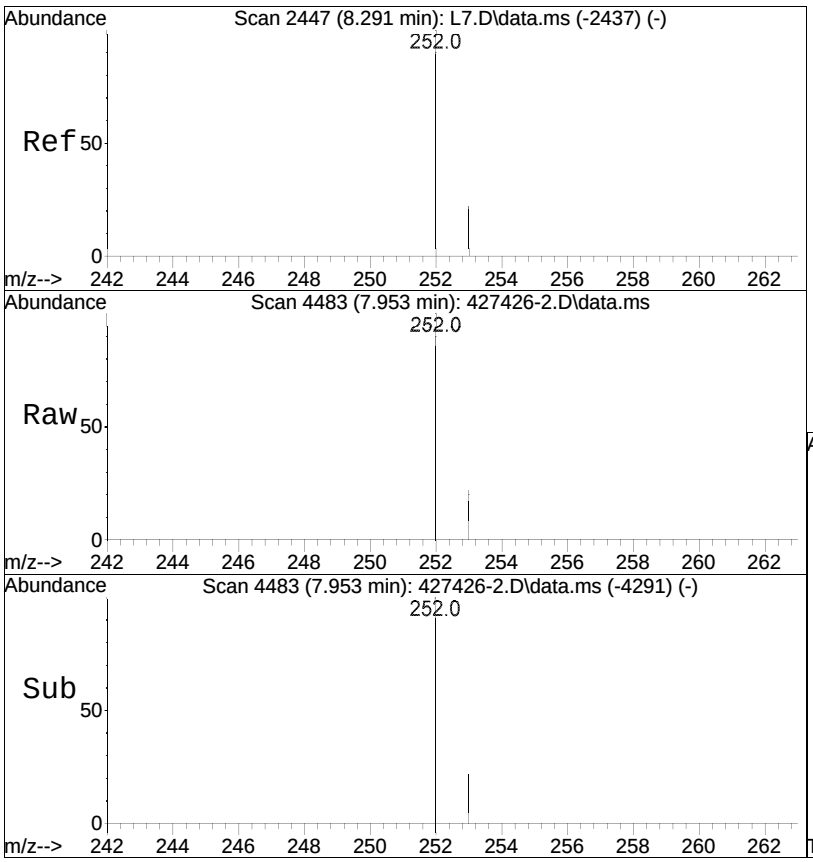


#32
Chrysene
Concen: 862.10 ug/ml
RT: 7.291 min Scan# 4115
Delta R.T. -0.001 min
Lab File: 427426-2.D
Acq: 29 Oct 2020 08:42 am

Tgt Ion:228 Resp: 27625

Ion	Ratio	Lower	Upper
228	100		
226	29.9	25.4	38.0

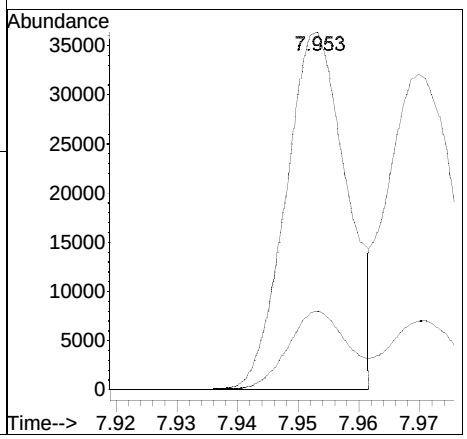


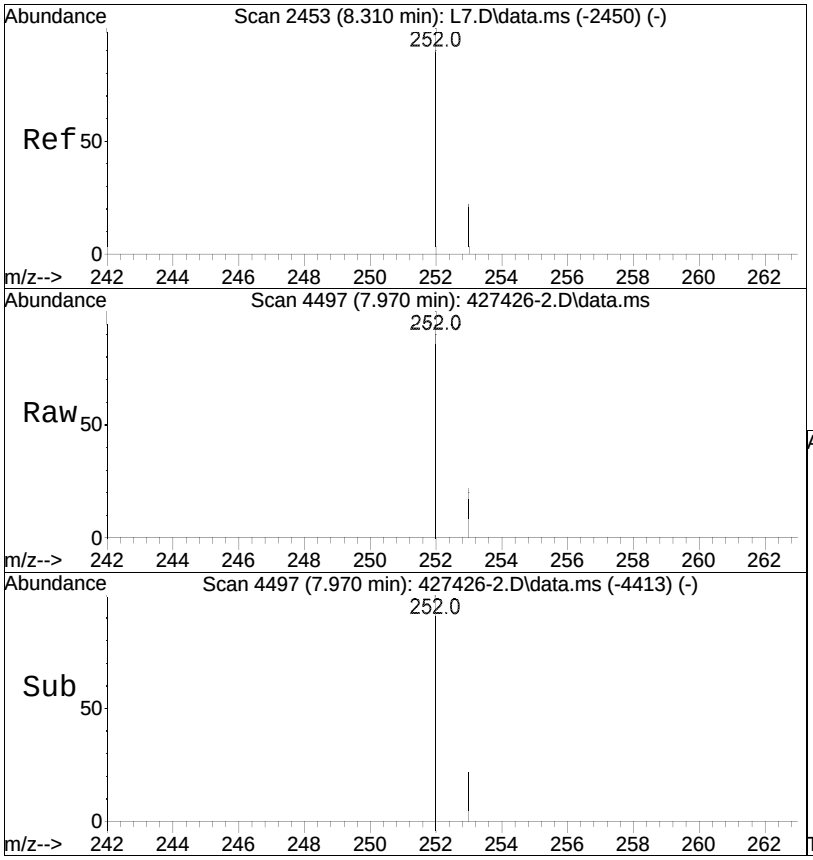


#35
Benzo[b]fluoranthene
Concen: 831.85 ng/ml
RT: 7.953 min Scan# 4483
Delta R.T. -0.000 min
Lab File: 427426-2.D
Acq: 29 Oct 2020 08:42 am

Tgt Ion:252 Resp: 25347

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.5	26.3

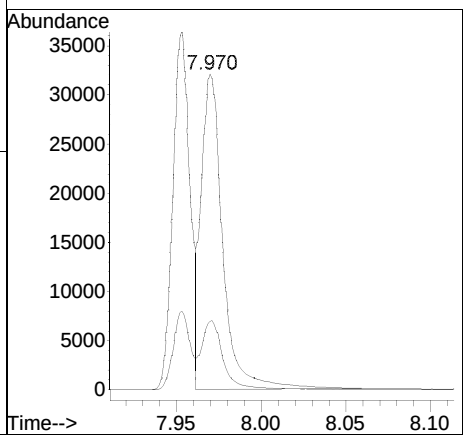


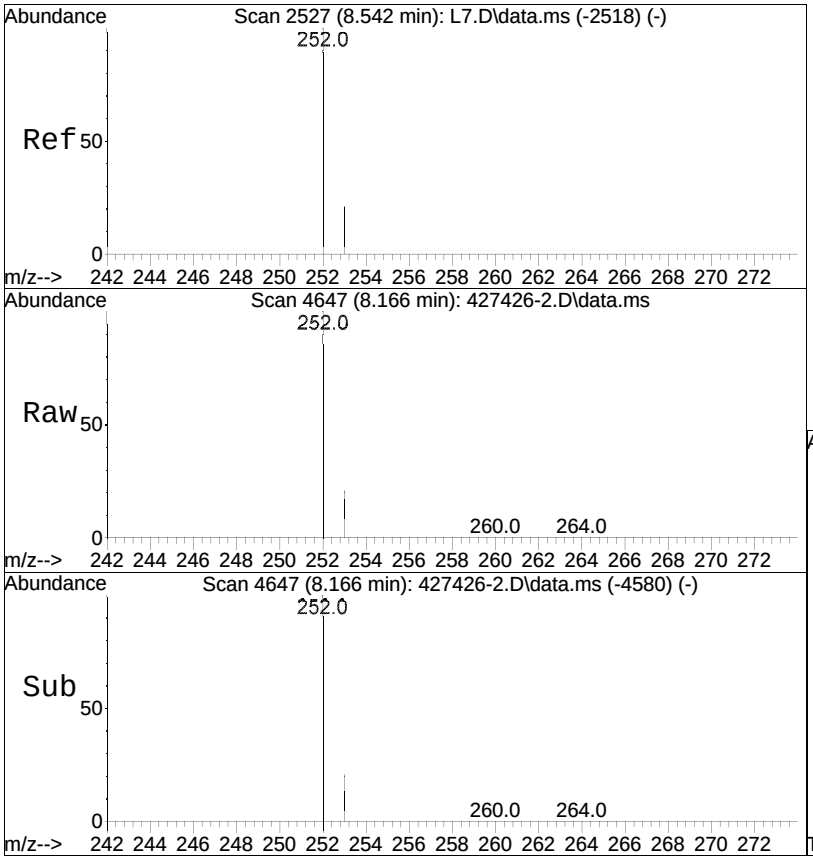


#36
Benzo[k]fluoranthene
Concen: 909.44 ng/ml
RT: 7.970 min Scan# 4497
Delta R.T. -0.001 min
Lab File: 427426-2.D
Acq: 29 Oct 2020 08:42 am

Tgt Ion:252 Resp: 28046

Ion	Ratio	Lower	Upper
252	100		
253	20.8	17.4	26.0

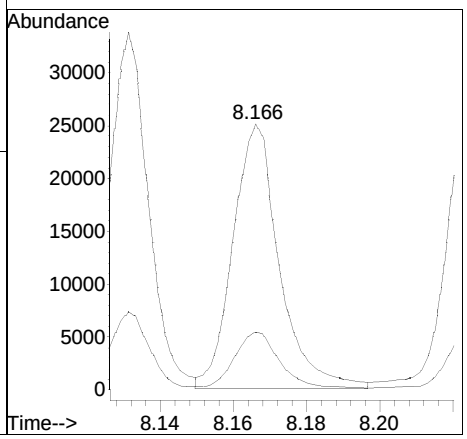


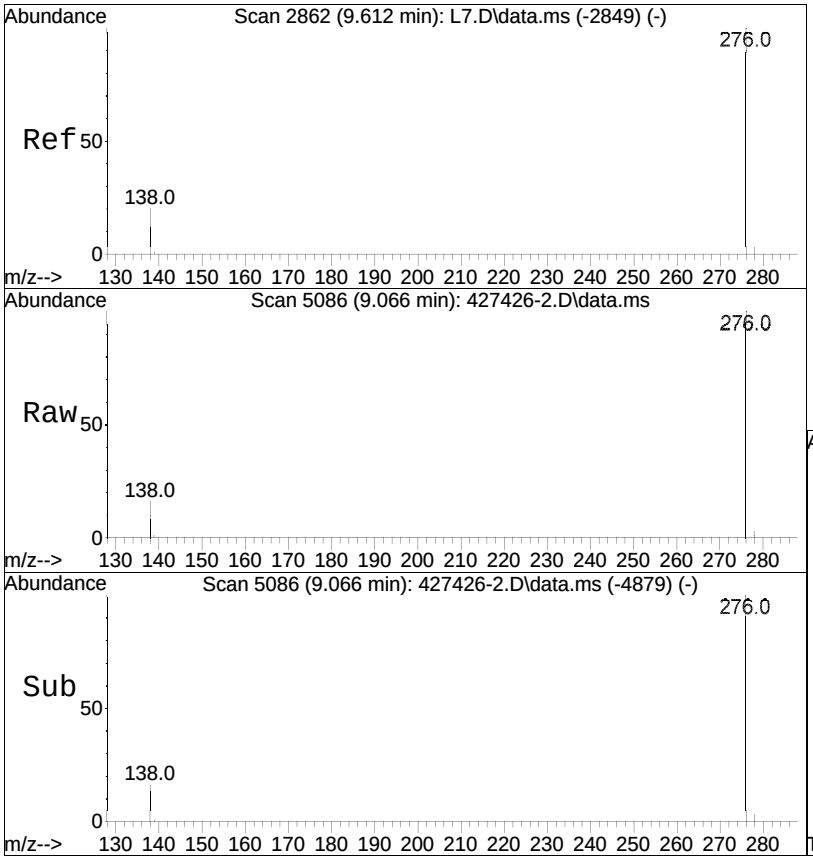


#37
Benzo[a]pyrene
Concen: 843.21 ng/ml
RT: 8.166 min Scan# 4647
Delta R.T. -0.001 min
Lab File: 427426-2.D
Acq: 29 Oct 2020 08:42 am

Tgt Ion:252 Resp: 22031

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.3	25.9

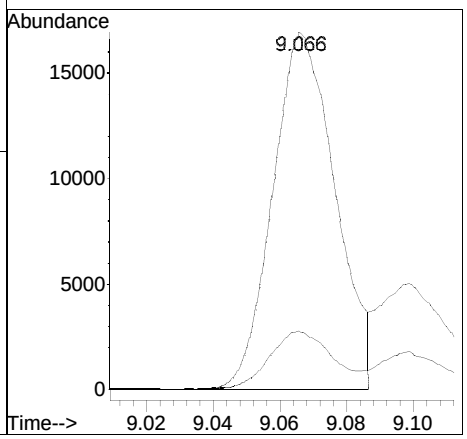


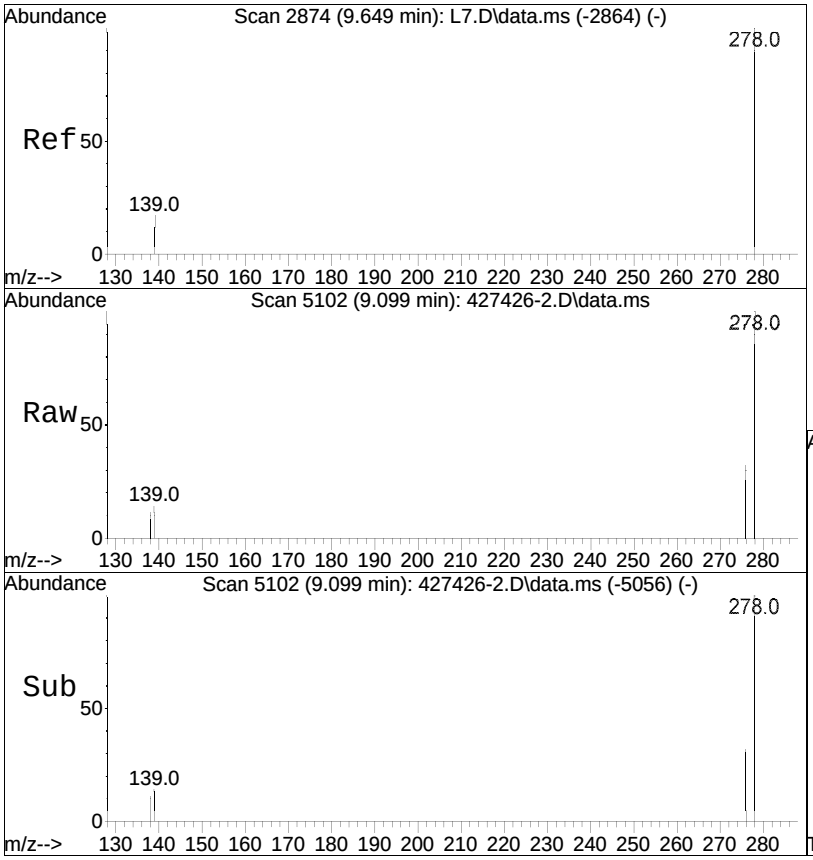


#38
Indeno[1,2,3-cd]pyrene
Concen: 889.19 ng/ml
RT: 9.066 min Scan# 5086
Delta R.T. -0.003 min
Lab File: 427426-2.D
Acq: 29 Oct 2020 08:42 am

Tgt Ion:276 Resp: 21868

Ion	Ratio	Lower	Upper
276	100		
138	16.3	31.4	47.2#

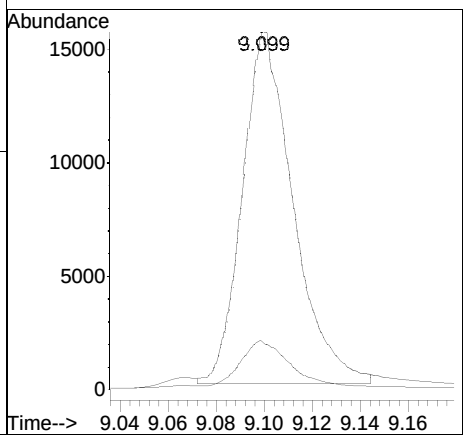


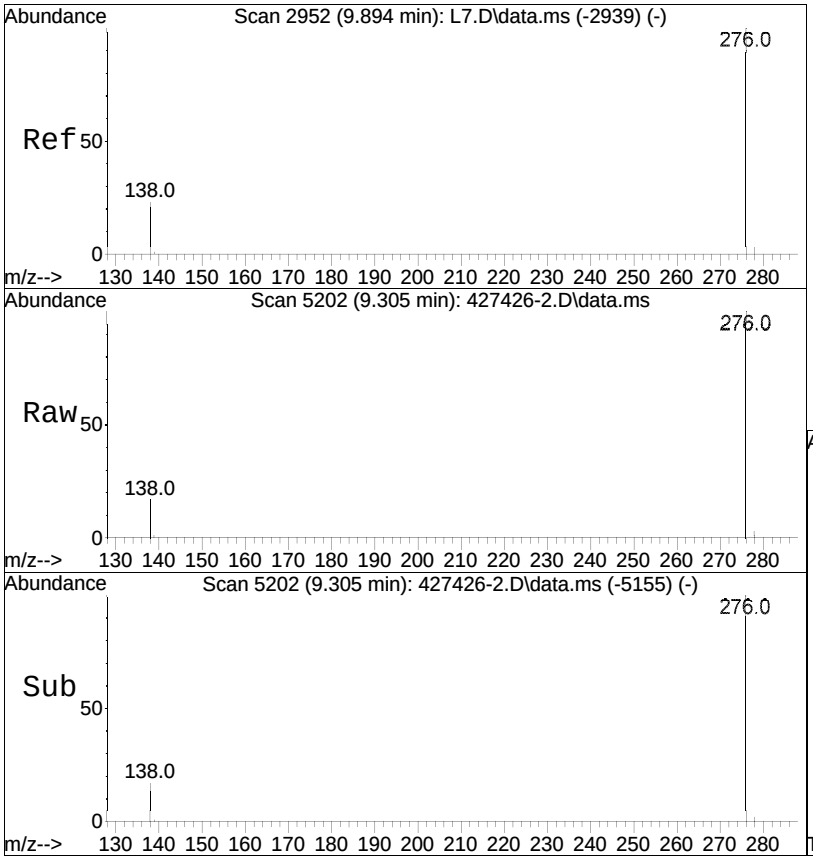


#39
Dibenzo[a,h]anthracene
Concen: 934.59 ng/ml M6
RT: 9.099 min Scan# 5102
Delta R.T. -0.005 min
Lab File: 427426-2.D
Acq: 29 Oct 2020 08:42 am

Tgt Ion:278 Resp: 22865

Ion	Ratio	Lower	Upper
278	100		
139	13.9	28.1	42.1#

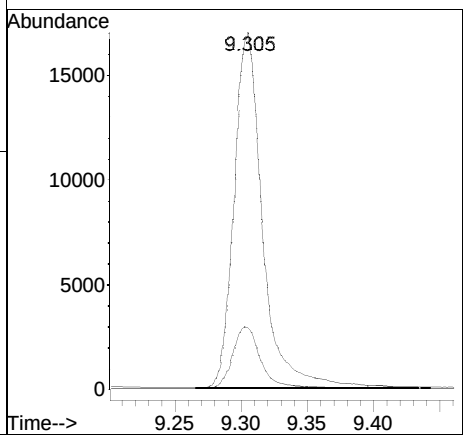




#40
Benzo[g,h,i]perylene
Concen: 906.37 ng/ml
RT: 9.305 min Scan# 5202
Delta R.T. -0.003 min
Lab File: 427426-2.D
Acq: 29 Oct 2020 08:42 am

Tgt Ion:276 Resp: 25020

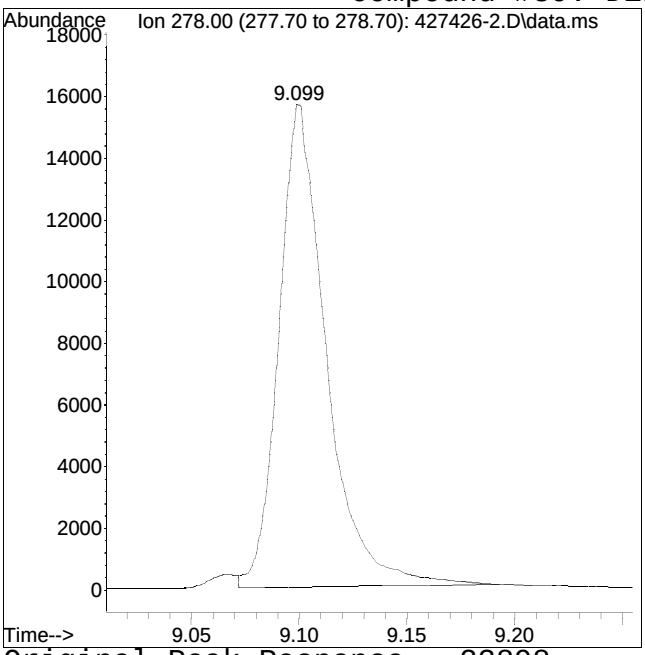
Ion	Ratio	Lower	Upper
276	100		
138	17.8	34.9	52.3#



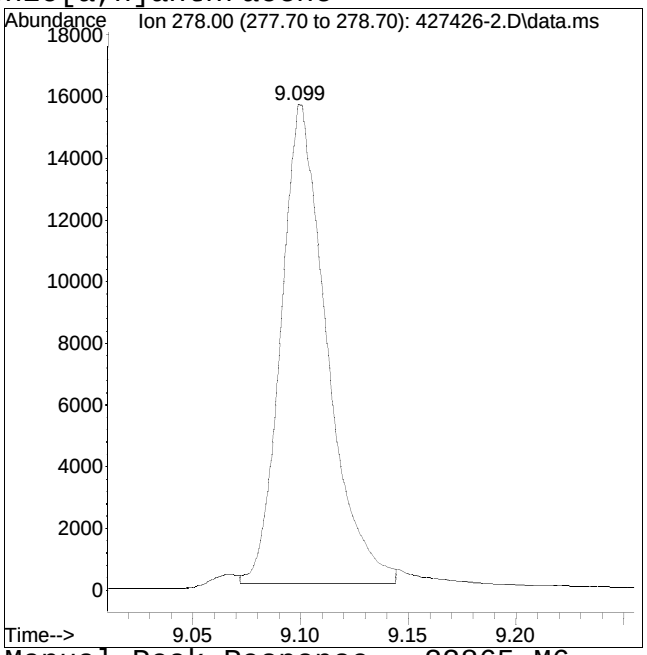
Manual Integration Report

Data Path : I:\8270SIM\sv119\201029LVIQMethod : SIM-LVI_200916_sv119.M
Data File : 427426-2.D Operator : sv119:dv
Date Inj'd : 10/29/2020 8:42 am Instrument : SV119
Sample : WG1427426-2,32,,nytcl,jjw Quant Date : 10/29/2020 12:53 pm

Compound #39: Dibenzo[a,h]anthracene



Original Peak Response = 23898



Manual Peak Response = 22865 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\201029LVI\
Data File : 427426-3.D
Acq On : 29 Oct 2020 09:03 am
Operator : sv119:dv
Sample : WG1427426-3,32,,nytcl,jjw
Misc : WG1427924,WG1427426,ical17132
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 29 12:54:52 2020
Quant Method : I:\8270SIM\sv119\201029LVI\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 08:09:20 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\201029LVI\ccv1029.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.543	152	23151	4000.000	ng/ml	0.00
Standard Area 1 = 22118			Recovery = 104.67%			
9) Naphthalene-d8	3.337	136	84241	4000.000	ng/ml	# 0.00
Standard Area 1 = 81355			Recovery = 103.55%			
17) Acenaphthene-d10	4.497	164	49296	4000.000	ng/ml	0.00
Standard Area 1 = 49629			Recovery = 99.33%			
21) Phenanthrene-d10	5.486	188	102662	4000.000	ng/ml	# 0.00
Standard Area 1 = 107834			Recovery = 95.20%			
30) Chrysene-d12	7.273	240	100647	4000.000	ng/ml	# 0.00
Standard Area 1 = 112549			Recovery = 89.43%			
34) Perylene-d12	8.210	264	101235	4000.000	ng/ml	0.00
Standard Area 1 = 113755			Recovery = 88.99%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.801	112	16515	2877.003	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 57540.06%#			
4) Phenol-d6	2.359	99	16603	2459.901	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 49198.02%#			
8) Nitrobenzene-d5	2.893	82	11839	1979.966	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 79198.64%#			
14) 2-Fluorobiphenyl	4.069	172	39234	2219.802	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 88792.08%#			
20) 2,4,6-Tribromophenol	5.029	330	11908	4216.054	ng/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 84321.08%#			
29) 4-Terphenyl-d14	6.595	244	53383	2688.929	ng/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 107557.16%#			
Target Compounds						Qvalue
10) Naphthalene	3.349	128	15981	737.864	ng/ml	100
16) Acenaphthylene	4.398	152	19677	844.281	ng/ml	99
18) Acenaphthene	4.518	153	13575	791.169	ng/ml	97
19) Fluorene	4.866	166	14858	849.522	ng/ml	100
23) Hexachlorobenzene	5.234	284	5224	790.696	ng/ml	89
24) Pentachlorophenol	5.379	266	2907	1406.327	ng/ml	98
25) Phenanthrene	5.502	178	24099	852.885	ng/ml	100
26) Anthracene	5.537	178	24662	917.601	ng/ml	99
27) Fluoranthene	6.303	202	28845	953.886	ng/ml#	91
28) Pyrene	6.448	202	29425	939.982	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\201029LVI\
Data File : 427426-3.D
Acq On : 29 Oct 2020 09:03 am
Operator : sv119:dv
Sample : WG1427426-3,32,,nytcl,jjw
Misc : WG1427924,WG1427426,ical17132
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 29 12:54:52 2020
Quant Method : I:\8270SIM\sv119\201029LVI\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 08:09:20 2020
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\201029LVI\ccv1029.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Benzo[a]anthracene	7.269	228	27587	881.418	ng/ml#	81
32) Chrysene	7.291	228	29926	911.865	ug/ml	97
35) Benzo[b]fluoranthene	7.953	252	27480	870.647	ng/ml	99
36) Benzo[k]fluoranthene	7.970	252	30434M1	952.723	ng/ml	
37) Benzo[a]pyrene	8.167	252	25580	945.171	ng/ml	100
38) Indeno[1,2,3-cd]pyrene	9.069	276	24632	966.923	ng/ml#	62
39) Dibenzo[a,h]anthracene	9.102	278	25932	1023.279	ng/ml#	63
40) Benzo[g,h,i]perylene	9.306	276	26950	942.500	ng/ml#	60

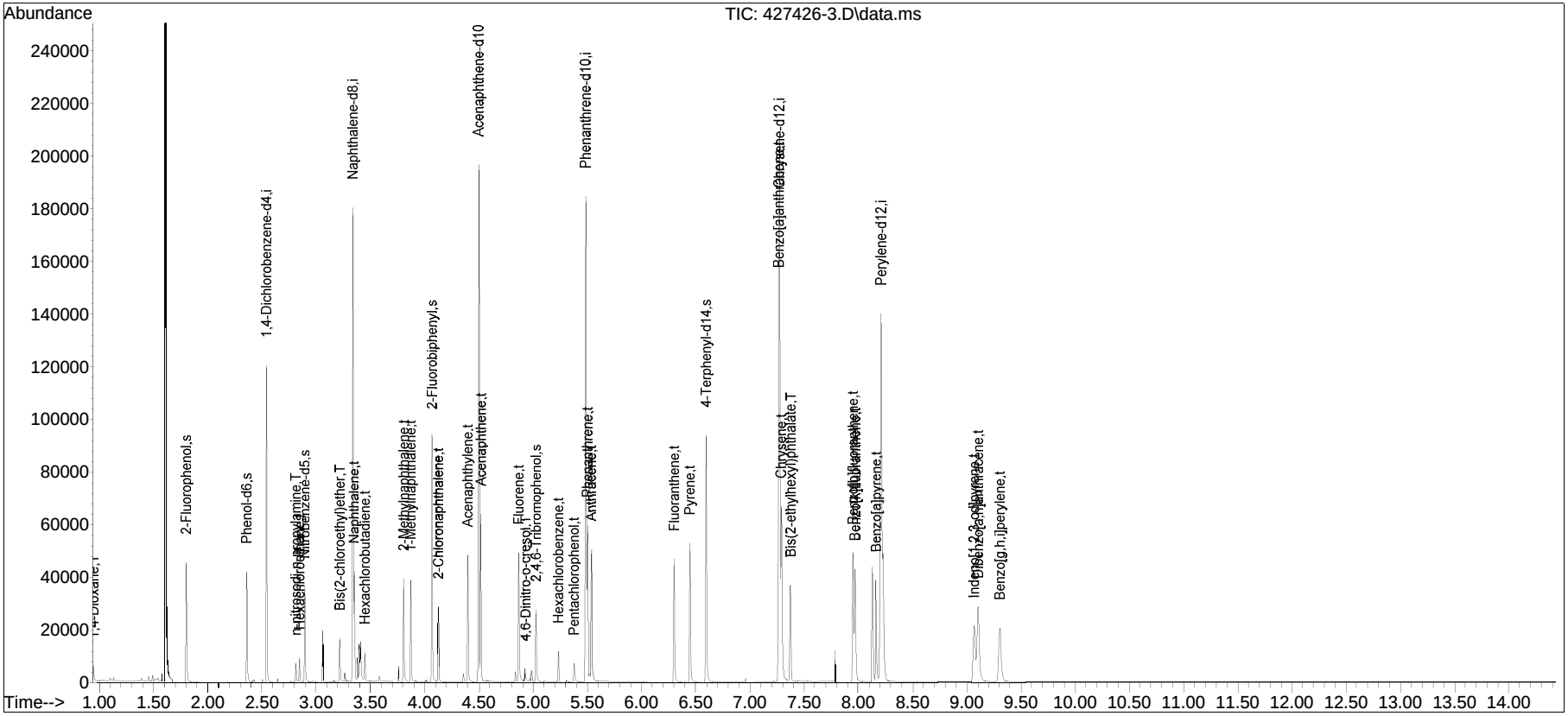
(#) = qualifier out of range (m) = manual integration (+) = signals summed

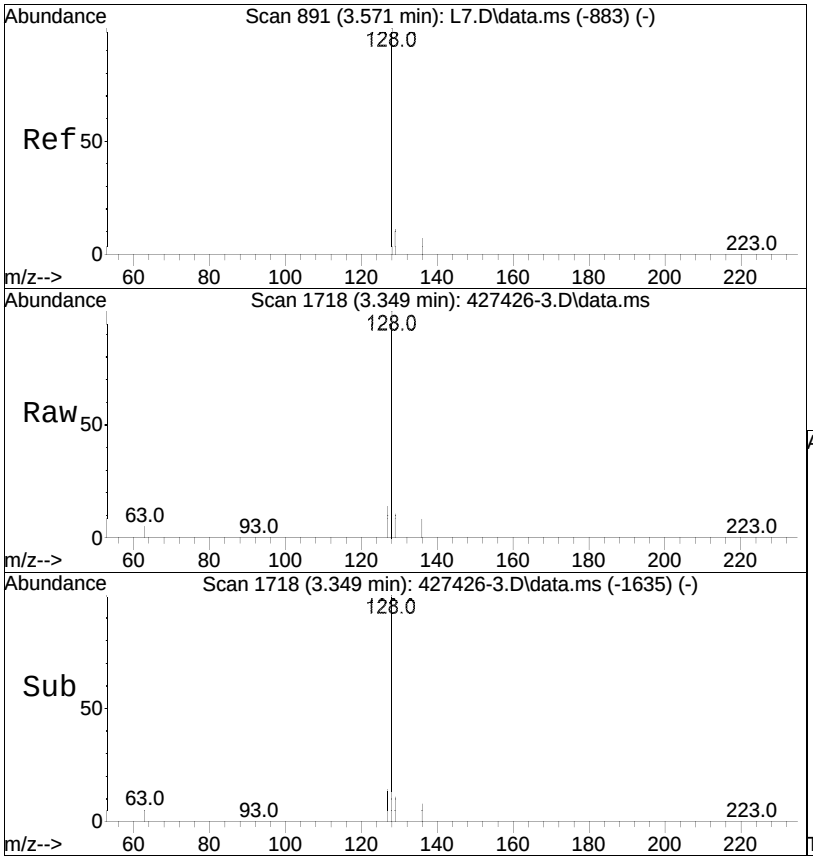
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\201029LVI\
Data File : 427426-3.D
Acq On : 29 Oct 2020 09:03 am
Operator : sv119:dv
Sample : WG1427426-3,32,,nytcl,jjw
Misc : WG1427924,WG1427426,ical17132
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 29 12:54:52 2020
Quant Method : I:\8270SIM\sv119\201029LVI\SIM-LVI_200916_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 29 08:09:20 2020
Response via : Initial Calibration

Sub List : Default - All compounds listed\ccv1029.D•

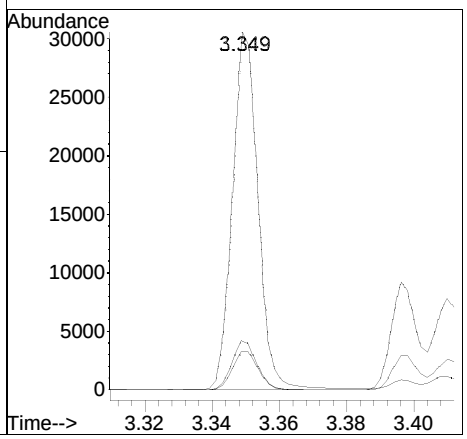


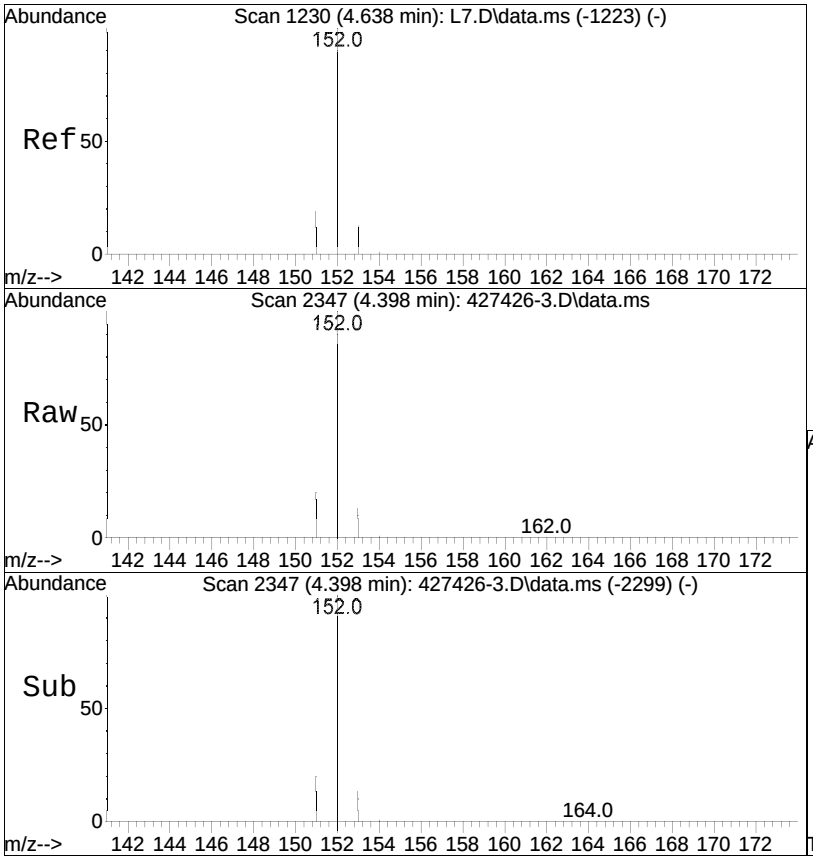


#10
Naphthalene
Concen: 737.86 ng/ml
RT: 3.349 min Scan# 1718
Delta R.T. -0.004 min
Lab File: 427426-3.D
Acq: 29 Oct 2020 09:03 am

Tgt Ion:128 Resp: 15981

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.8	13.2
127	13.3	10.6	16.0

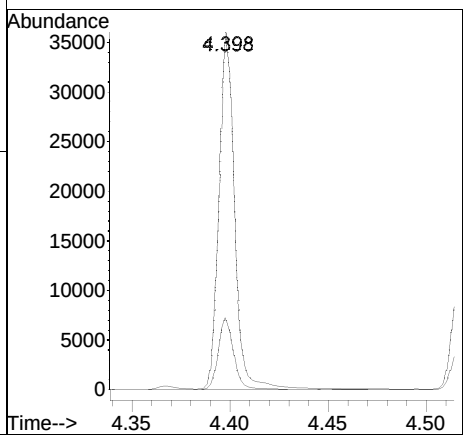


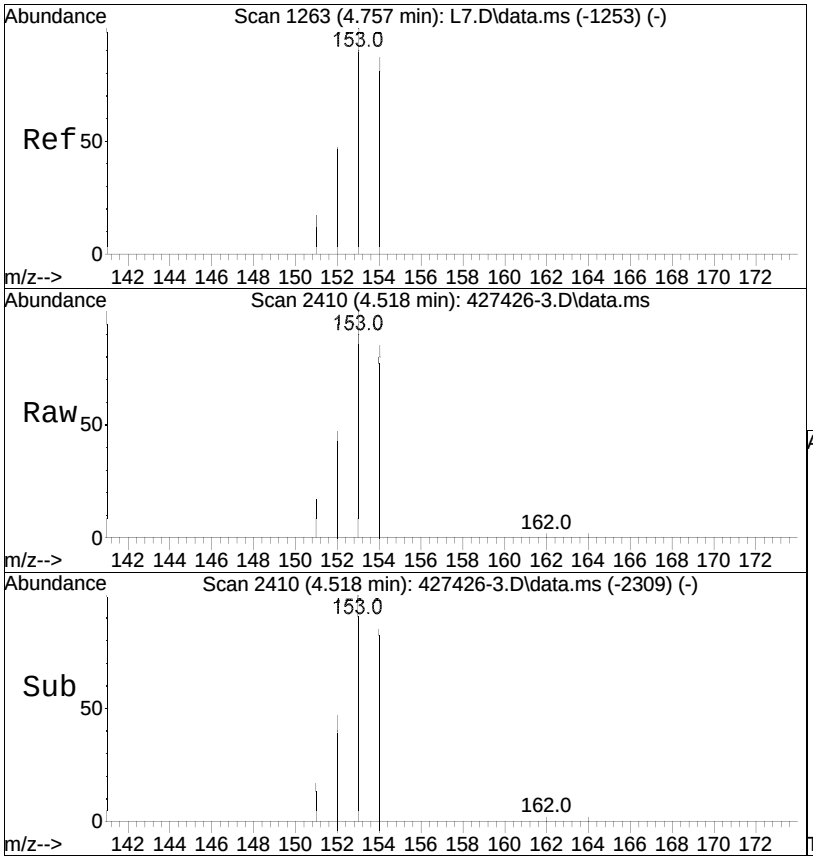


#16
Acenaphthylene
Concen: 844.28 ng/ml
RT: 4.398 min Scan# 2347
Delta R.T. -0.004 min
Lab File: 427426-3.D
Acq: 29 Oct 2020 09:03 am

Tgt Ion:152 Resp: 19677

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.3	24.5

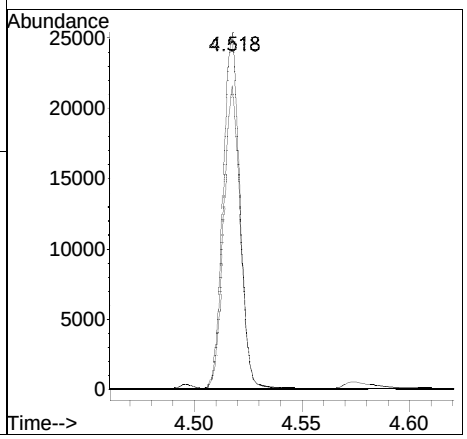


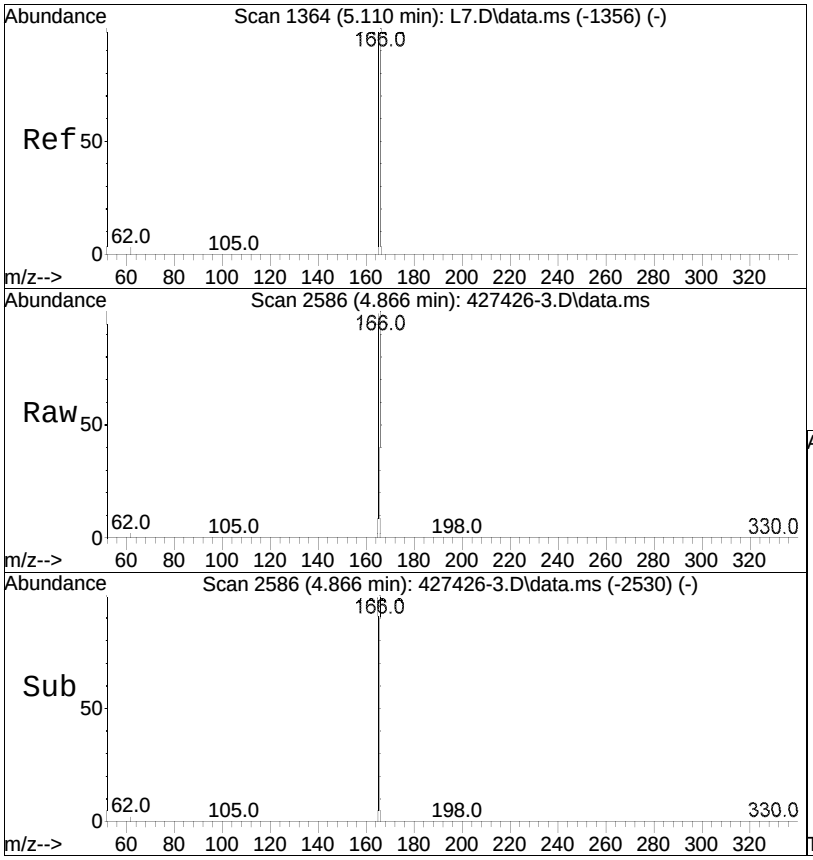


#18
Acenaphthene
Concen: 791.17 ng/ml
RT: 4.518 min Scan# 2410
Delta R.T. -0.002 min
Lab File: 427426-3.D
Acq: 29 Oct 2020 09:03 am

Tgt Ion:153 Resp: 13575

Ion	Ratio	Lower	Upper
153	100		
154	84.4	69.8	104.8

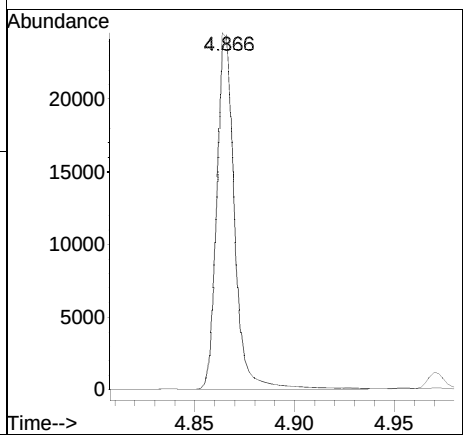


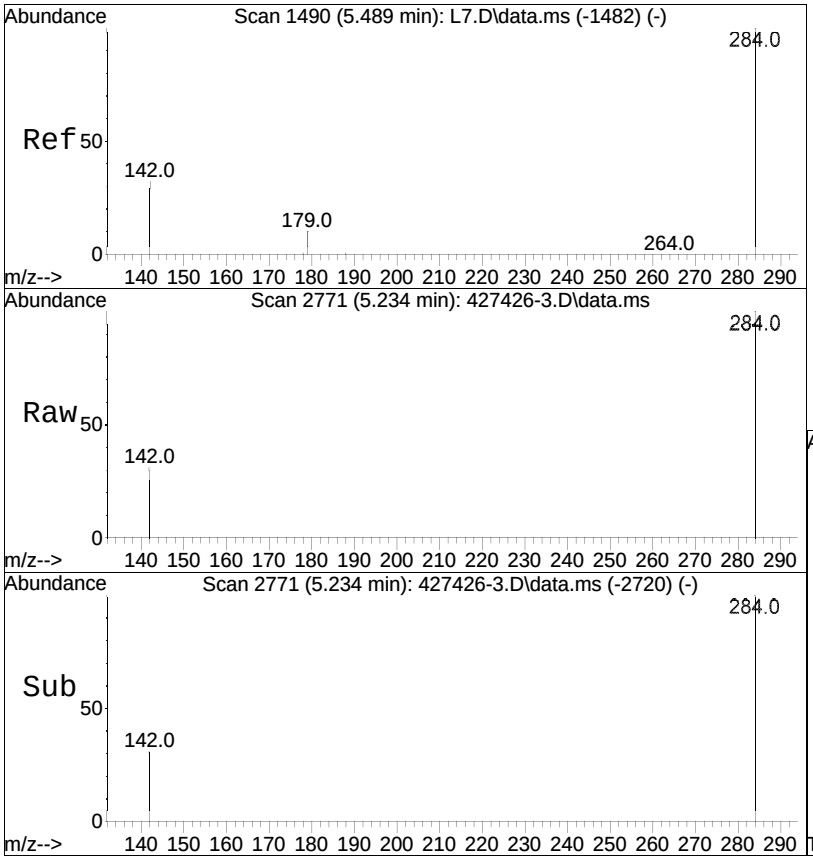


#19
Fluorene
Concen: 849.52 ng/ml
RT: 4.866 min Scan# 2586
Delta R.T. -0.002 min
Lab File: 427426-3.D
Acq: 29 Oct 2020 09:03 am

Tgt Ion:166 Resp: 14858

Ion	Ratio	Lower	Upper
166	100		
165	101.6	80.9	121.3

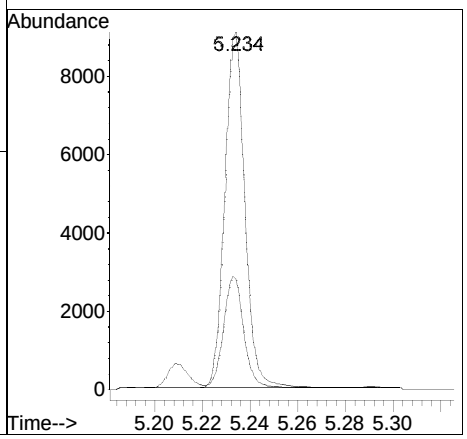


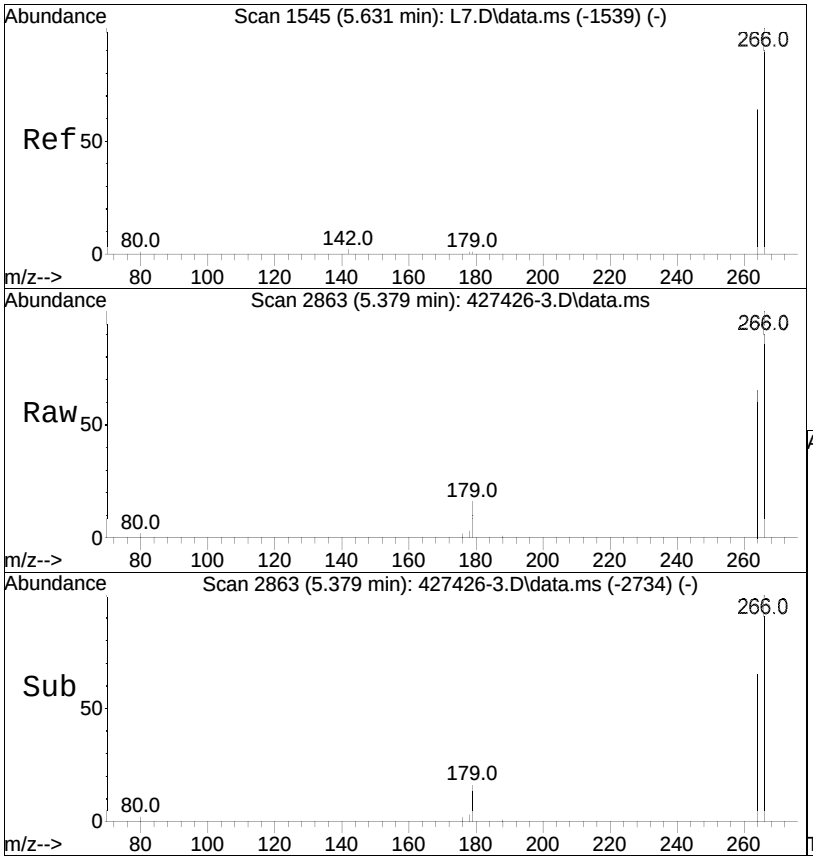


#23
Hexachlorobenzene
Concen: 790.70 ng/ml
RT: 5.234 min Scan# 2771
Delta R.T. -0.002 min
Lab File: 427426-3.D
Acq: 29 Oct 2020 09:03 am

Tgt Ion:284 Resp: 5224

Ion	Ratio	Lower	Upper
284	100		
142	32.5	31.2	46.8

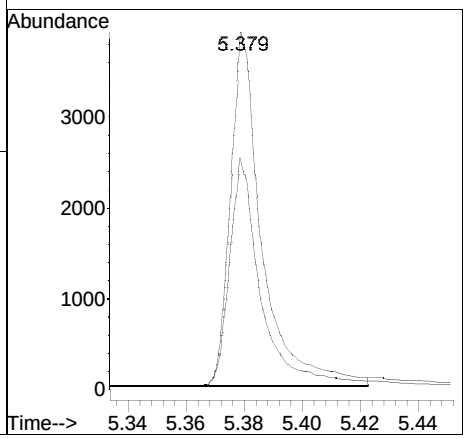


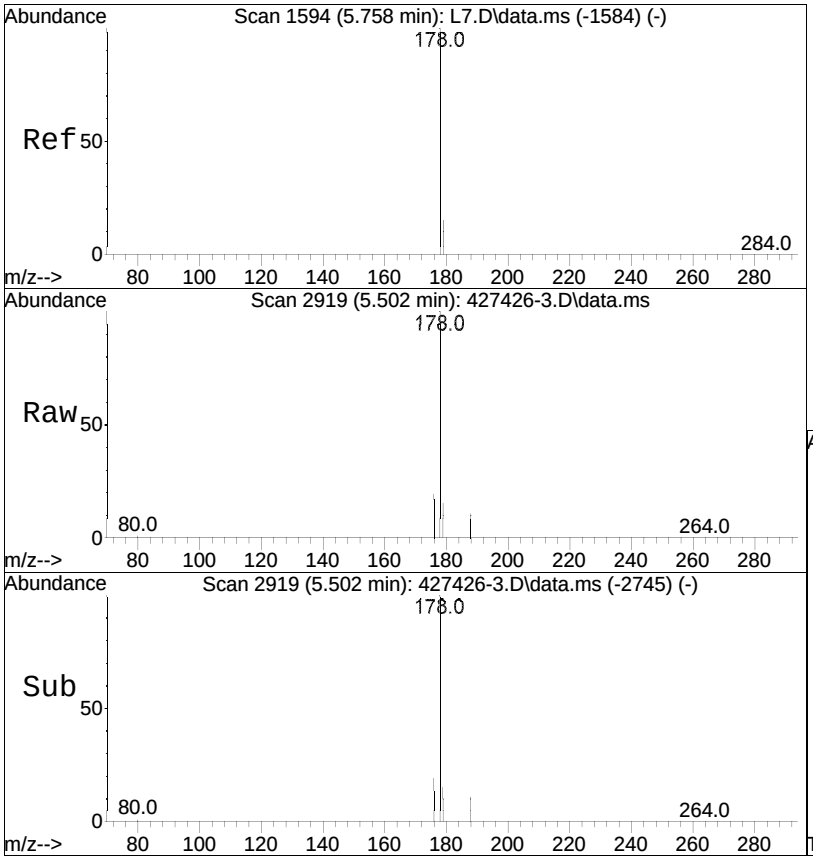


#24
Pentachlorophenol
Concen: 1406.33 ng/ml
RT: 5.379 min Scan# 2863
Delta R.T. -0.004 min
Lab File: 427426-3.D
Acq: 29 Oct 2020 09:03 am

Tgt Ion:266 Resp: 2907

Ion	Ratio	Lower	Upper
266	100		
264	65.5	50.9	76.3

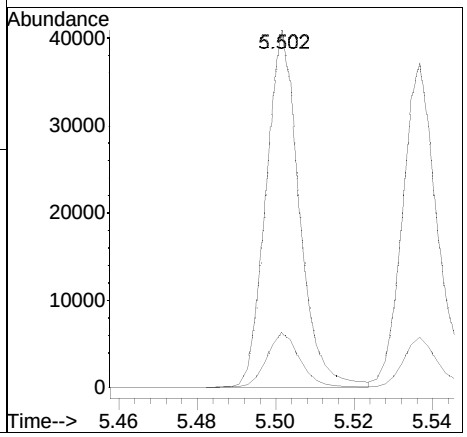


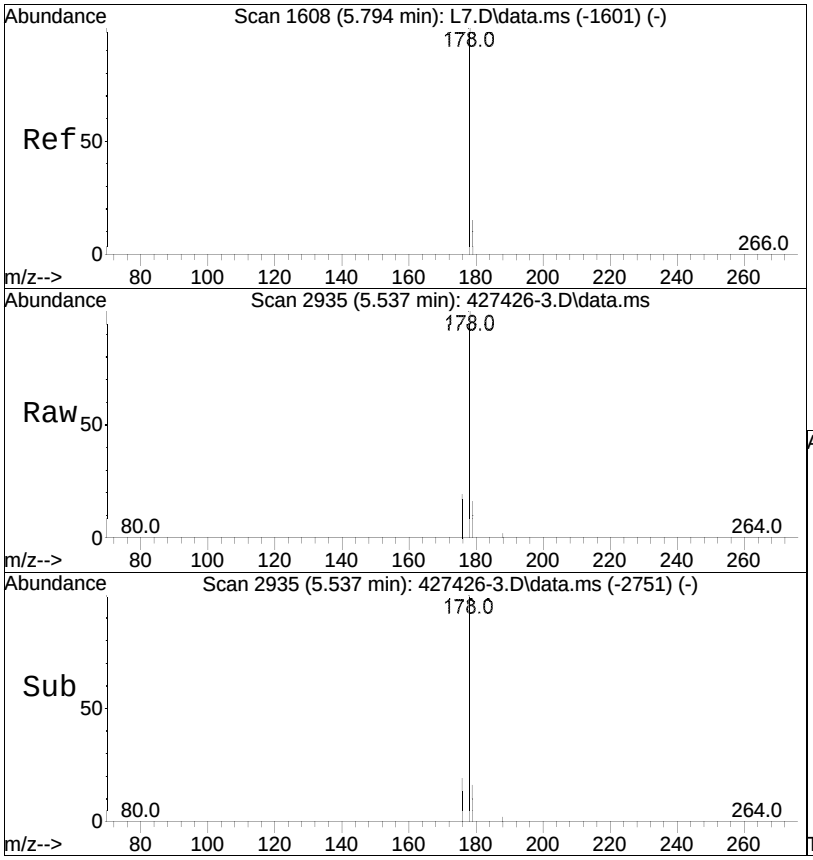


#25
Phenanthrene
Concen: 852.89 ng/ml
RT: 5.502 min Scan# 2919
Delta R.T. -0.002 min
Lab File: 427426-3.D
Acq: 29 Oct 2020 09:03 am

Tgt Ion:178 Resp: 24099

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.5	18.7

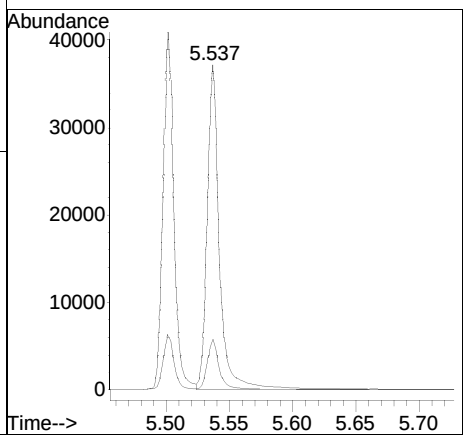


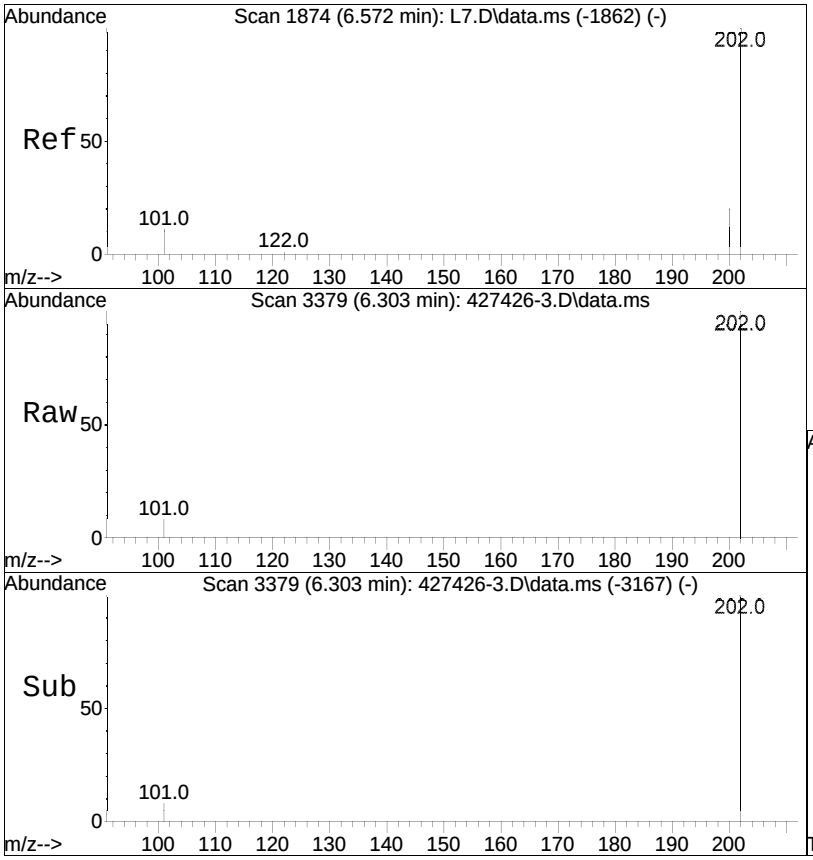


#26
Anthracene
Concen: 917.60 ng/ml
RT: 5.537 min Scan# 2935
Delta R.T. -0.002 min
Lab File: 427426-3.D
Acq: 29 Oct 2020 09:03 am

Tgt Ion:178 Resp: 24662

Ion	Ratio	Lower	Upper
178	100		
179	14.9	12.2	18.4

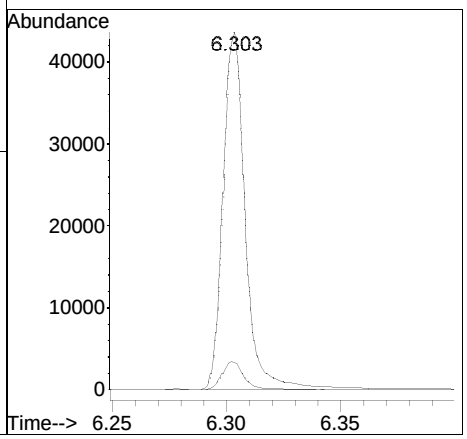


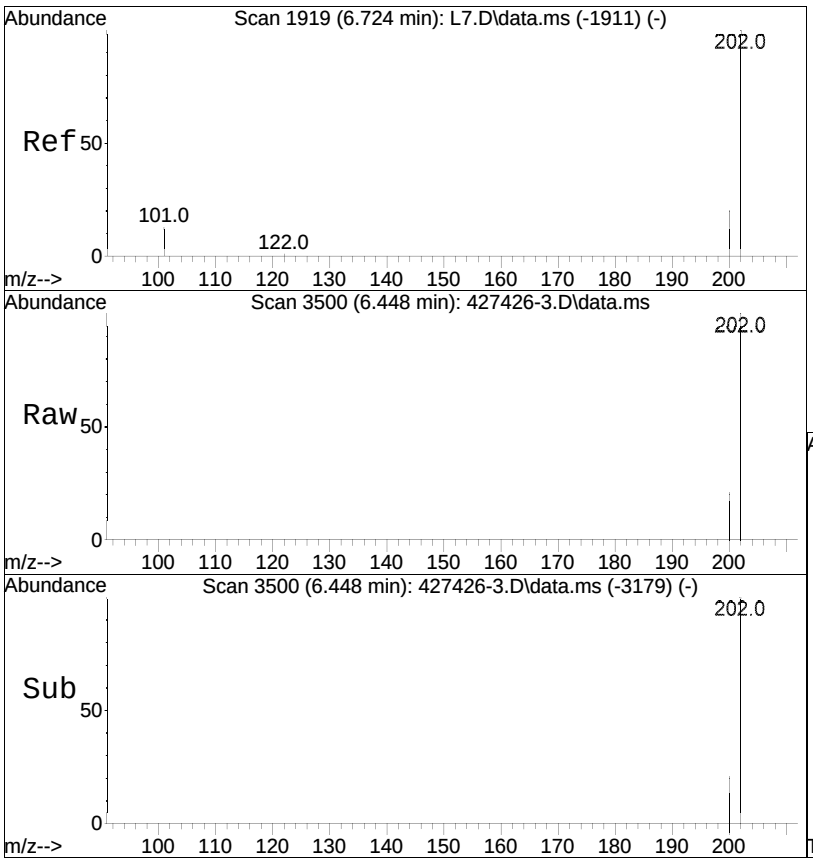


#27
Fluoranthene
Concen: 953.89 ng/ml
RT: 6.303 min Scan# 3379
Delta R.T. -0.002 min
Lab File: 427426-3.D
Acq: 29 Oct 2020 09:03 am

Tgt Ion:202 Resp: 28845

Ion	Ratio	Lower	Upper
202	100		
101	7.7	8.9	13.3#

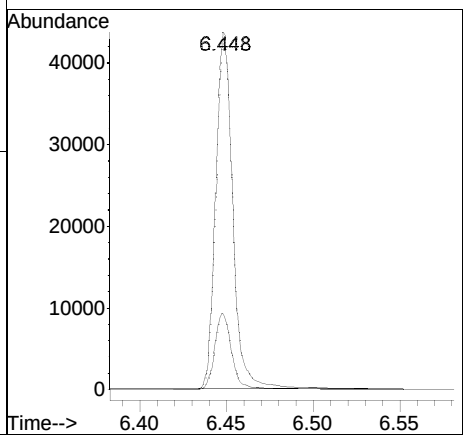


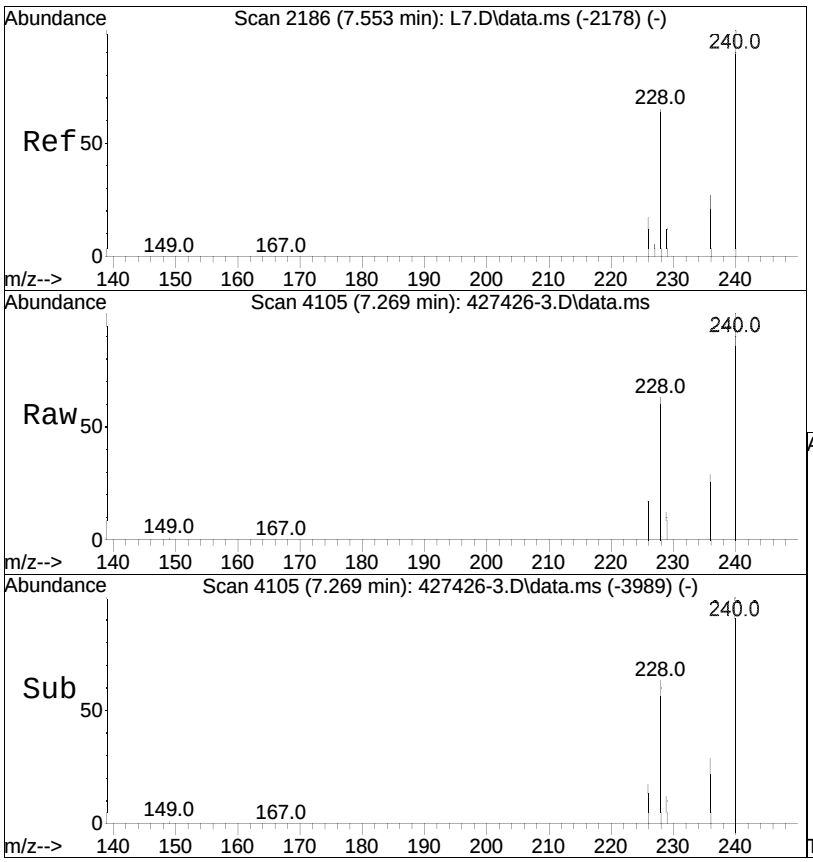


#28
Pyrene
Concen: 939.98 ng/ml
RT: 6.448 min Scan# 3500
Delta R.T. -0.004 min
Lab File: 427426-3.D
Acq: 29 Oct 2020 09:03 am

Tgt Ion:202 Resp: 29425

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.6	26.4

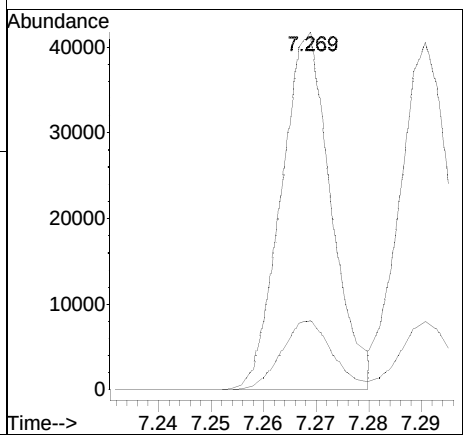


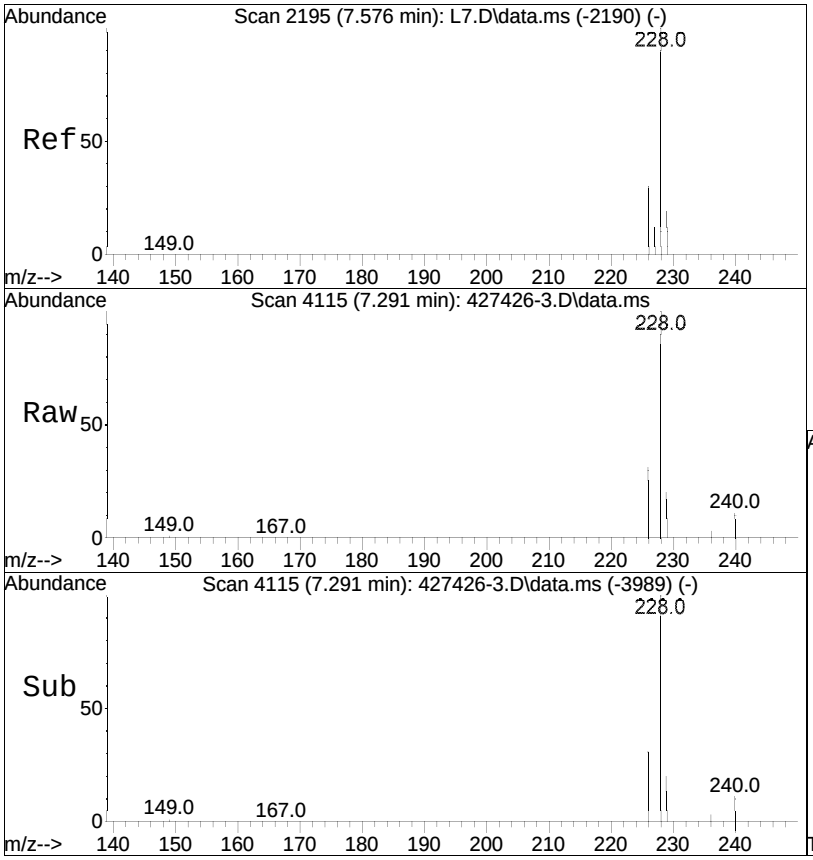


#31
Benzo[a]anthracene
Concen: 881.42 ng/ml
RT: 7.269 min Scan# 4105
Delta R.T. -0.001 min
Lab File: 427426-3.D
Acq: 29 Oct 2020 09:03 am

Tgt Ion:228 Resp: 27587

Ion	Ratio	Lower	Upper
228	100		
229	19.6	24.1	36.1#

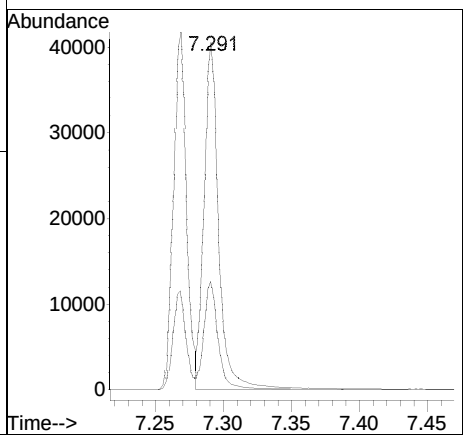


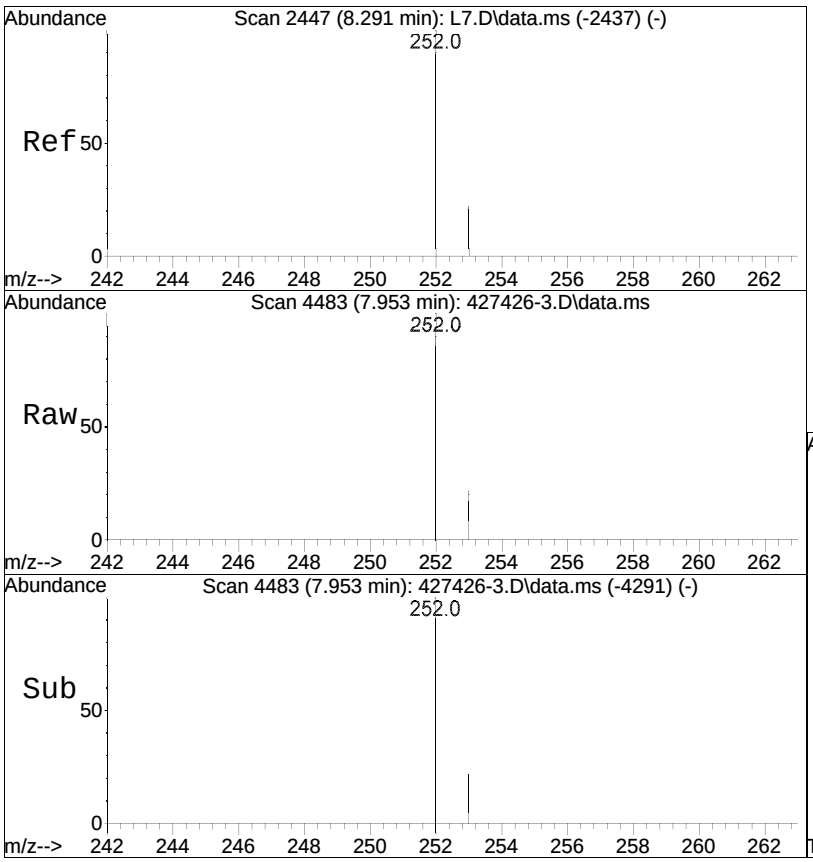


#32
Chrysene
Concen: 911.86 ug/ml
RT: 7.291 min Scan# 4115
Delta R.T. -0.001 min
Lab File: 427426-3.D
Acq: 29 Oct 2020 09:03 am

Tgt Ion:228 Resp: 29926

Ion	Ratio	Lower	Upper
228	100		
226	30.2	25.4	38.0

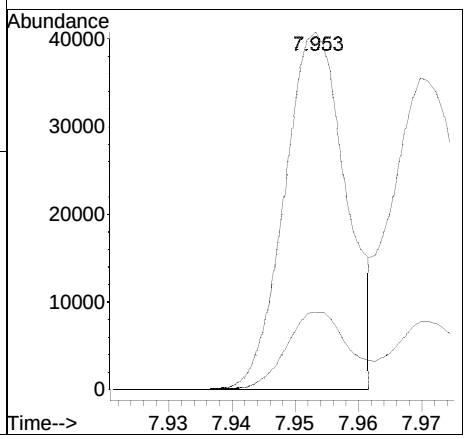


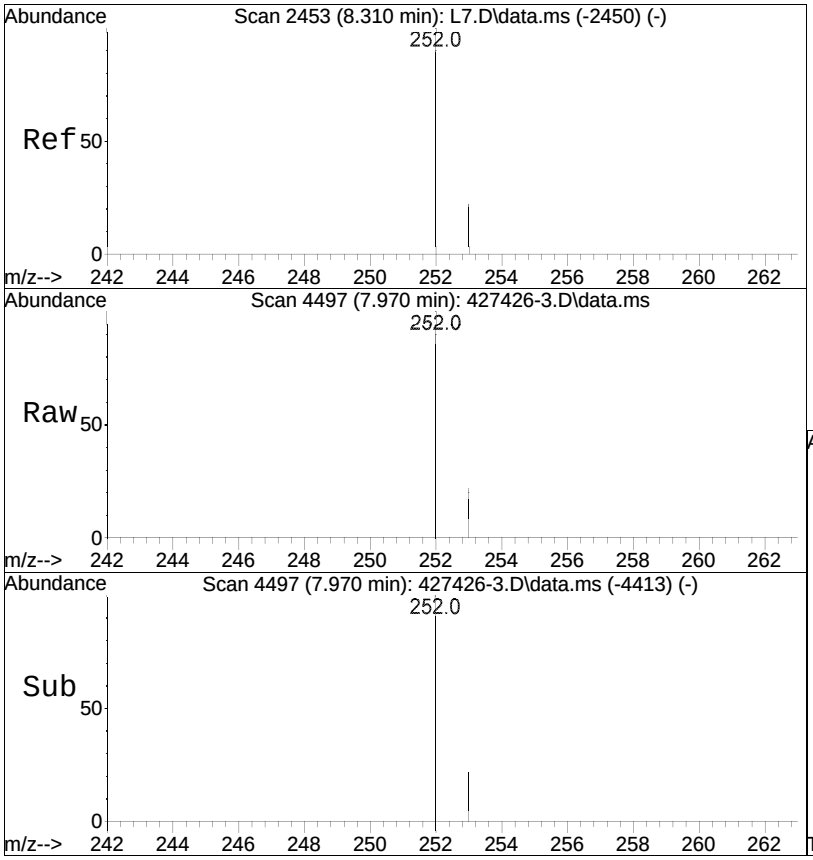


#35
Benzo[b]fluoranthene
Concen: 870.65 ng/ml
RT: 7.953 min Scan# 4483
Delta R.T. -0.000 min
Lab File: 427426-3.D
Acq: 29 Oct 2020 09:03 am

Tgt Ion:252 Resp: 27480

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.5	26.3

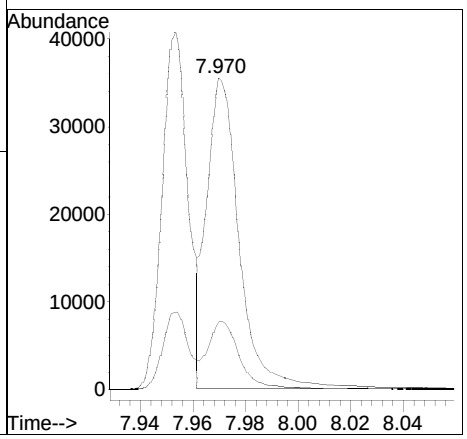


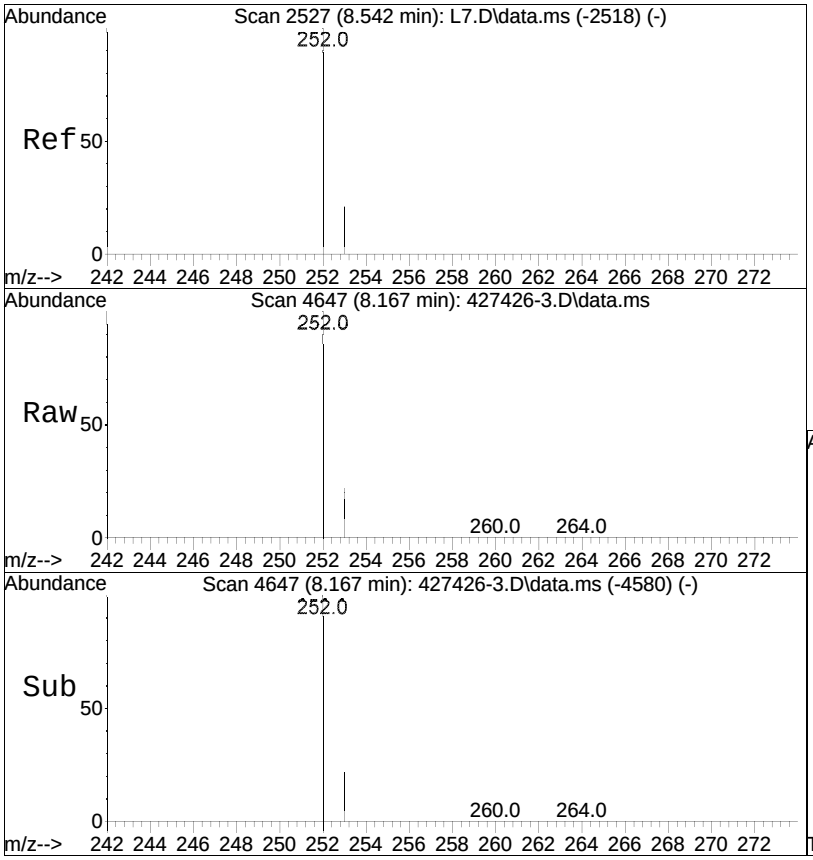


#36
Benzo[k]fluoranthene
Concen: 952.72 ng/ml M1
RT: 7.970 min Scan# 4497
Delta R.T. -0.001 min
Lab File: 427426-3.D
Acq: 29 Oct 2020 09:03 am

Tgt Ion:252 Resp: 30434

Ion	Ratio	Lower	Upper
252	100		
253	20.9	17.4	26.0

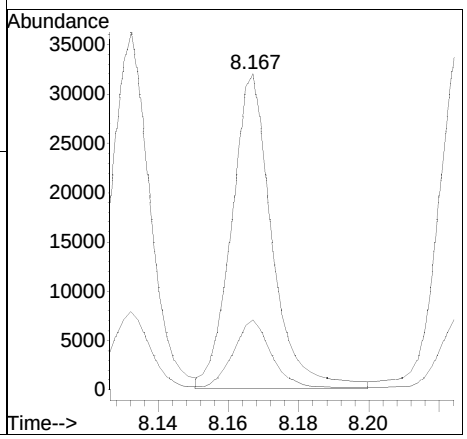


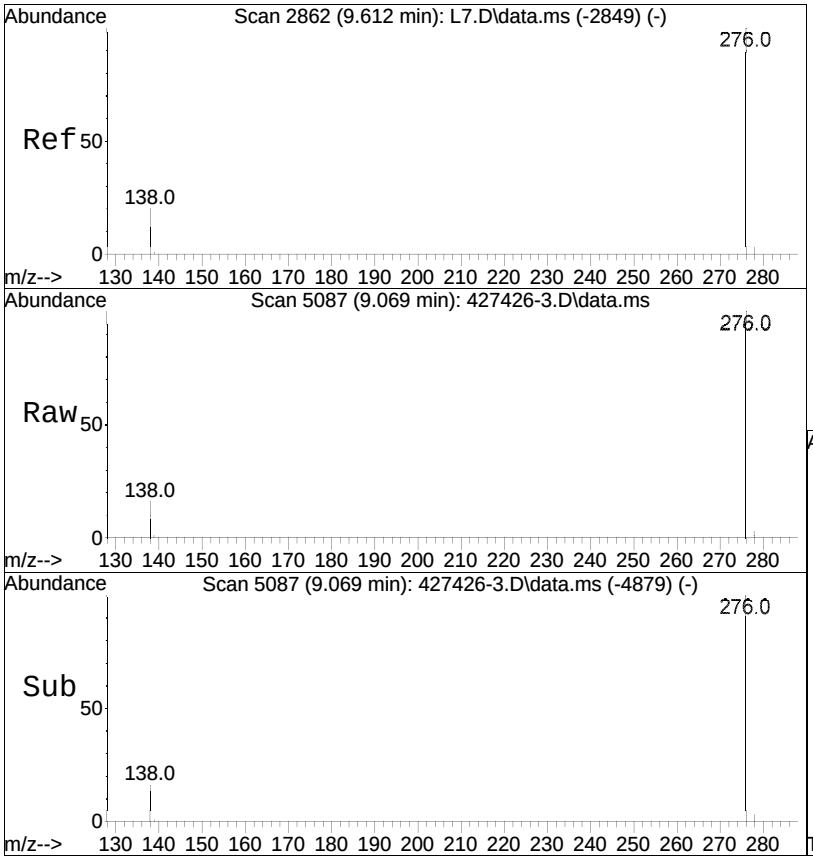


#37
Benzo[a]pyrene
Concen: 945.17 ng/ml
RT: 8.167 min Scan# 4647
Delta R.T. -0.000 min
Lab File: 427426-3.D
Acq: 29 Oct 2020 09:03 am

Tgt Ion:252 Resp: 25580

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.3	25.9

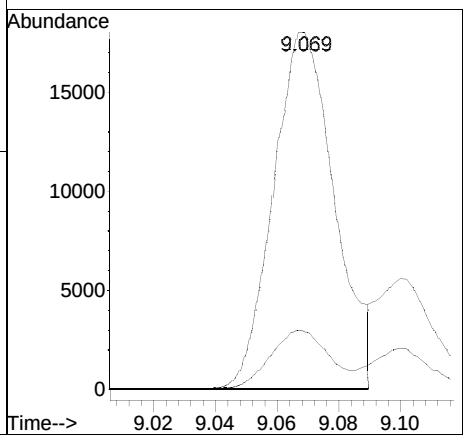


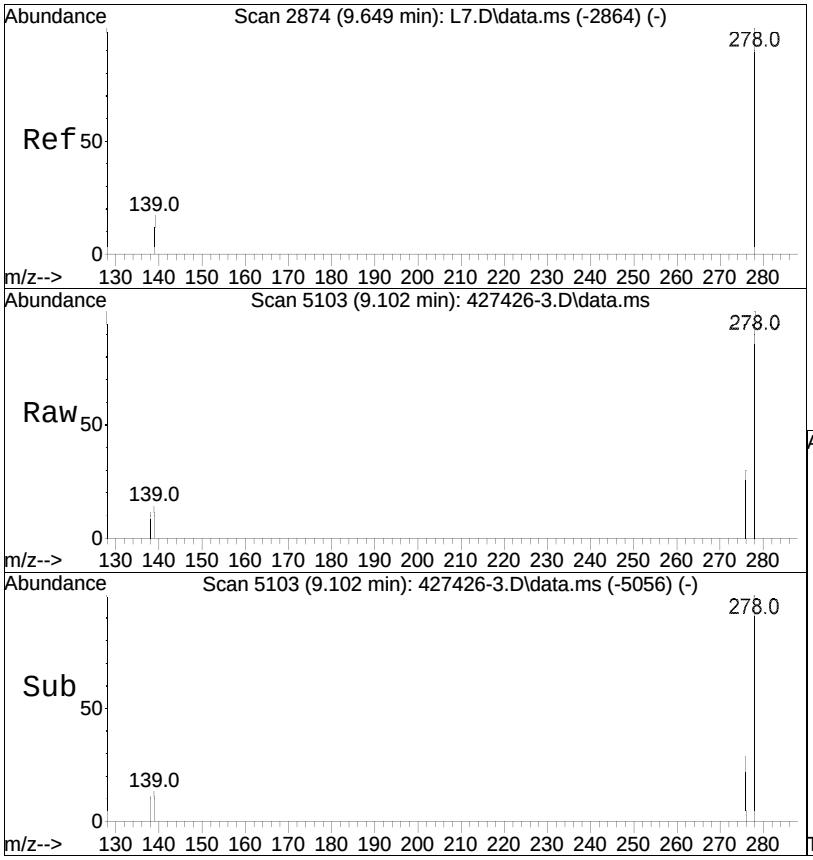


#38
Indeno[1,2,3-cd]pyrene
Concen: 966.92 ng/ml
RT: 9.069 min Scan# 5087
Delta R.T. -0.000 min
Lab File: 427426-3.D
Acq: 29 Oct 2020 09:03 am

Tgt Ion:276 Resp: 24632

Ion	Ratio	Lower	Upper
276	100		
138	16.0	31.4	47.2#

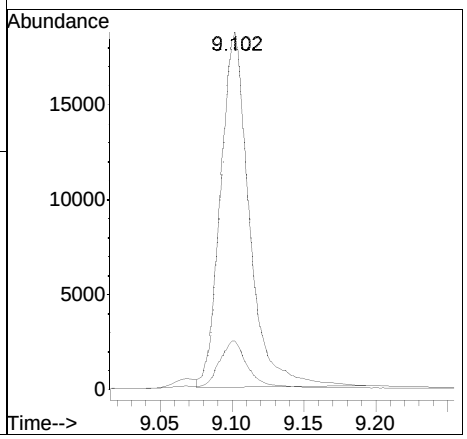


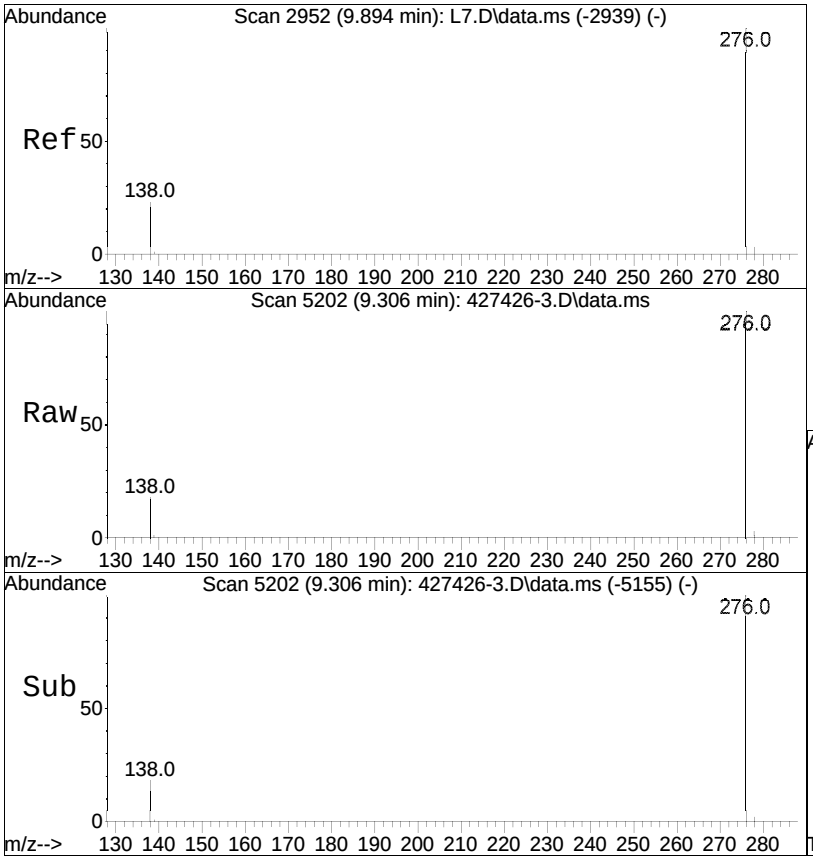


#39
Dibenzo[a,h]anthracene
Concen: 1023.28 ng/ml
RT: 9.102 min Scan# 5103
Delta R.T. -0.002 min
Lab File: 427426-3.D
Acq: 29 Oct 2020 09:03 am

Tgt Ion:278 Resp: 25932

Ion	Ratio	Lower	Upper
278	100		
139	13.4	28.1	42.1#

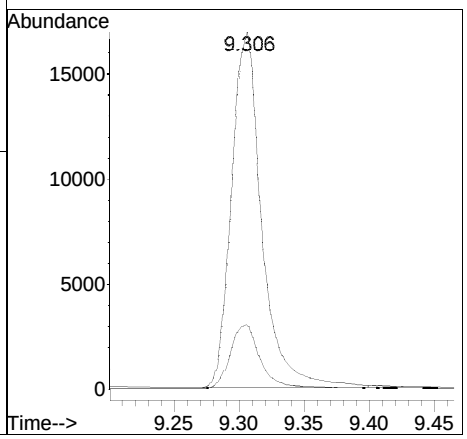




#40
Benzo[g,h,i]perylene
Concen: 942.50 ng/ml
RT: 9.306 min Scan# 5202
Delta R.T. -0.002 min
Lab File: 427426-3.D
Acq: 29 Oct 2020 09:03 am

Tgt Ion:276 Resp: 26950

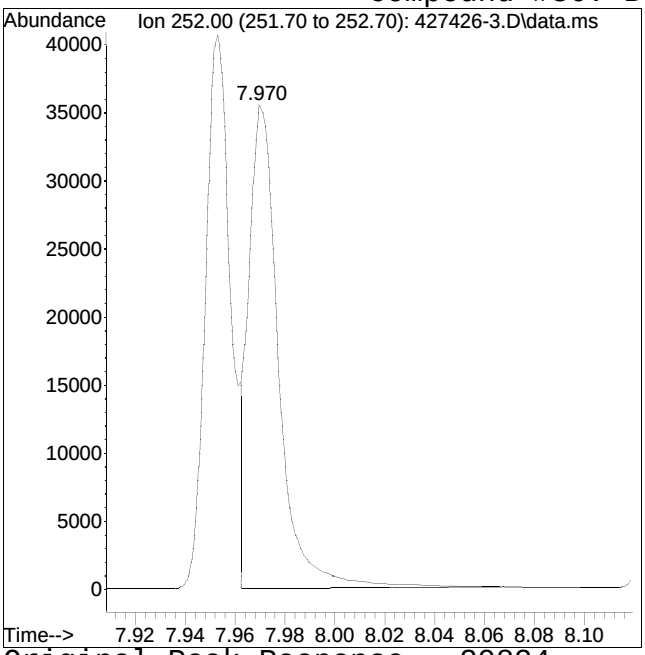
Ion	Ratio	Lower	Upper
276	100		
138	18.1	34.9	52.3#

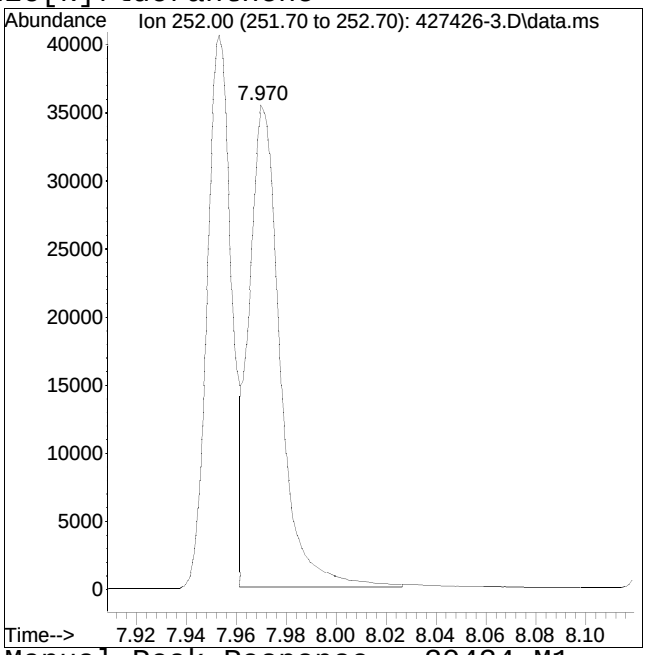


Manual Integration Report

Data Path : I:\8270SIM\sv119\201029LVIQMethod : SIM-LVI_200916_sv119.M
Data File : 427426-3.D Operator : sv119:dv
Date Inj'd : 10/29/2020 9:03 am Instrument : SV119
Sample : WG1427426-3,32,,nytcl,jjw Quant Date : 10/29/2020 12:54 pm

Compound #36: Benzo[k]fluoranthene





Original Peak Response = 29824 Manual Peak Response = 30434 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jan 05 2021, 12:43 pm

Work Group: WG1427426 for Department: 2 Organic Preparation

Created: 28-OCT-20 Due: Operator: SLRD

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2046533-06	RXMW-209	S	NYTCL-8270-SIM-LVI	WATER	DONE	U	1102	1102	S0	Amber-A.25
L2046625-01	GW-1	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1102	1030	1C	Amber-A.25
L2046625-02	GW-2	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1102	1030	1C	Amber-A.25
L2046625-03	GW-3	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1102	1030	1C	Amber-A.25
L2046790-01	MW-1	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1103	1030	1C	Amber-A.25
L2046790-02	MW-2	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1103	1030	1C	Amber-A.25
L2046790-03	MW-3	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1103	1030	1C	Amber-A.25
L2046790-04	TWP-1	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1103	1030	1C	Amber-A.25
L2046825-01	MW-01	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1103	1103	S0	Amber-A.25
L2046825-02	MW-02	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1103	1103	S0	Amber-A.25
L2046825-03	MW-03	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1103	1103	S0	Amber-A.25
L2046825-04	MW-04	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1103	1103	S0	Amber-A.25
L2046825-05	MW-05	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1103	1103	S0	Amber-A.25
L2046825-06	DUP001	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1103	1103	S0	Amber-A.25
L2047162-01	GW-1	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1104	1102	1C	Amber-A.25
L2047162-02	GW-2	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1104	1102	1C	Amber-A.25
L2047162-03	GW-3	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1104	1102	1C	Amber-A.25
WG1427426-1	Laboratory Method Bl	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1427426-2	Laboratory Control S	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1427426-3	LCS Duplicate	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1427426-4	Matrix Spike	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1427426-5	Matrix Spike Duplica	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				

Comments:

WG1427426-3	WG1427426-2
WG1427426-4	L2046825-05
WG1427426-5	L2046825-05

Analysis log File

Total Files Reported in Log : 13
Log Generated From Directory: I:\8270SIM\sv119\200916LVIical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	Tune.D	DFTPPRUN.M	TUNE	wg1410836,,ical	9/16/2020 3:13 pm
2	IL1.D	SIM-LVI-fast	IL1,32,,0.005	wg1410836,,ical	9/16/2020 3:32 pm
3	IL2.D	SIM-LVI-fast	IL2,32,,0.01	wg1410836,,ical	9/16/2020 3:52 pm
4	IL3.D	SIM-LVI-fast	IL3,32,,0.025	wg1410836,,ical	9/16/2020 4:13 pm
5	IL4.D	SIM-LVI-fast	IL4,32,,0.05	wg1410836,,ical	9/16/2020 4:33 pm
6	IL5.D	SIM-LVI-fast	IL5,32,,0.1	wg1410836,,ical	9/16/2020 4:55 pm
7	IL6.D	SIM-LVI-fast	IL6,32,,0.25	wg1410836,,ical	9/16/2020 5:17 pm
8	IL7.D	SIM-LVI-fast	IL7,32,,1.0	wg1410836,,ical	9/16/2020 5:38 pm
9	IL8.D	SIM-LVI-fast	IL8,32,,5.0	wg1410836,,ical	9/16/2020 5:59 pm
10	IL9.D	SIM-LVI-fast	IL9,32,,10.0	wg1410836,,ical	9/16/2020 6:20 pm
11	IL10.D	SIM-LVI-fast	IL10,32,,20.0	wg1410836,,ical	9/16/2020 6:42 pm
12	ICV.D	SIM-LVI-fast	CQICV,32,,1.0	wg1410836,,ical	9/16/2020 7:04 pm
13	blank0916.D	SIM-LVI-fast			9/16/2020 7:25 pm

SeqLog 1.0 - (c) 2009 Abacus Database Applications

Analysis log File

Total Files Reported in Log : 13
Log Generated From Directory: I:\8270SIM\SV125\200917LVIical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	Tune.D	Tune(2.0).M	TUNE	wg1411680,,ical	9/17/2020 2:19 pm
2	IL10.D	fast-SIM-LVI	IL10,32,,20.0	wg1411680,,ical	9/17/2020 2:51 pm
3	IL9.D	fast-SIM-LVI	IL9,32,,10.0	wg1411680,,ical	9/17/2020 3:10 pm
4	IL8.D	fast-SIM-LVI	IL8,32,,5.0	wg1411680,,ical	9/17/2020 3:28 pm
5	IL7.D	fast-SIM-LVI	IL7,32,,1.0	wg1411680,,ical	9/17/2020 3:47 pm
6	IL6.D	fast-SIM-LVI	IL6,32,,0.25	wg1411680,,ical	9/17/2020 4:06 pm
7	IL5.D	fast-SIM-LVI	IL5,32,,0.1	wg1411680,,ical	9/17/2020 4:25 pm
8	IL4.D	fast-SIM-LVI	IL4,32,,0.05	wg1411680,,ical	9/17/2020 4:43 pm
9	IL3.D	fast-SIM-LVI	IL3,32,,0.025	wg1411680,,ical	9/17/2020 5:02 pm
10	IL2.D	fast-SIM-LVI	IL2,32,,0.01	wg1411680,,ical	9/17/2020 5:21 pm
11	IL1.D	fast-SIM-LVI	IL1,32,,0.005	wg1411680,,ical	9/17/2020 5:40 pm
12	ICV.D	fast-SIM-LVI	CQICV,32,,1.0	wg1411680,,ical	9/17/2020 5:59 pm
13	insblk.D	fast-SIM-LVI			9/17/2020 6:17 pm

SeqLog 1.0 - (c) 2009 Abacus Database Applications

	Type	Method File	Vial	Name	Data File	Comment
	Sample	DFTPPRUN.M	141	wg-1,32,,dftppsv119	deg1029	wg,,ical17132
	Keyword					
	Sample	SIM-LVI-fast(2.0).M	142	wg-3,32,,CCV	ccv1029	wg,,ical17132
	Sample	SIM-LVI-fast(2.0).M	143	Instrument blank	blk1029	wg,,ical17132
	Keyword					
	Sample	SIM-LVI-fast(2.0).M	1	WG1427426-1,32,,nytcl,jjw	427426-1	WG1427924,WG1427426,ical17132
	Sample	SIM-LVI-fast(2.0).M	2	WG1427426-2,32,,nytcl,jjw	427426-2	WG1427924,WG1427426,ical17132
	Sample	SIM-LVI-fast(2.0).M	3	WG1427426-3,32,,nytcl,jjw	427426-3	WG1427924,WG1427426,ical17132
	Sample	SIM-LVI-fast(2.0).M	4	L2046790-01,32,,nytcl,jjw	46790-01	WG1427924,WG1427426,ical17132
	Sample	SIM-LVI-fast(2.0).M	5	L2046790-02,32,,nytcl,jjw	46790-02	WG1427924,WG1427426,ical17132
	Sample	SIM-LVI-fast(2.0).M	6	L2046790-03,32,,nytcl,jjw	46790-03	WG1427924,WG1427426,ical17132
	Sample	SIM-LVI-fast(2.0).M	7	wg1426446-4,32,5,tech,jjw,rv	426446-4	WG1427924,WG1426446,ical17132
	Sample	SIM-LVI-fast(2.0).M	8	wg1426446-6,32,5,tech,jjw,rv	426446-6	WG1427924,WG1426446,ical17132
	Sample	SIM-LVI-fast(2.0).M	9	wg1426446-7,32,5,tech,jjw,rv	426446-7	WG1427924,WG1426446,ical17132
	Sample	SIM-LVI-fast(2.0).M	10	L2046790-04,32,,nytcl,jjw	46790-04	WG1427924,WG1427426,ical17132
	Sample	SIM-LVI-fast(2.0).M	11	WG1427426-4,32,,nytcl,jjw	427426-4	WG1427924,WG1427426,ical17132
	Sample	SIM-LVI-fast(2.0).M	12	WG1427426-5,32,,nytcl,jjw	427426-5	WG1427924,WG1427426,ical17132
	Sample	SIM-LVI-fast(2.0).M	13	L2046625-01,32,,nytcl,jjw	46625-01	WG1427924,WG1427426,ical17132
	Sample	SIM-LVI-fast(2.0).M	14	L2046625-02,32,,nytcl,jjw	46625-02	WG1427924,WG1427426,ical17132
	Sample	SIM-LVI-fast(2.0).M	15	L2046625-03,32,,nytcl,jjw	46625-03	WG1427924,WG1427426,ical17132
	Sample	SIM-LVI-fast(2.0).M	16	l2047162-01,32,,nytcl	47162-01	WG1427924,WG1427426,ical17132
	Sample	SIM-LVI-fast(2.0).M	17	l2047162-02,32,,nytcl	47162-02	WG1427924,WG1427426,ical17132
	Sample	SIM-LVI-fast(2.0).M	18	l2047162-03,32,,nytcl	47162-03	WG1427924,WG1427426,ical17132
	Sample	SIM-LVI-fast(2.0).M	19	l2045599-08,32,,tech,rv	45599-08	WG1427924,WG1426277,ical17132
	Sample	SIM-LVI-fast(2.0).M	20	wg1427802-2,32,,pah	427802-2	WG1427924,WG1427802,ical17132
	Sample	SIM-LVI-fast(2.0).M	21	wg1427802-3,32,,pah	427802-3	WG1427924,WG1427802,ical17132
	Sample	SIM-LVI-fast(2.0).M	22	wg1427802-1,32,,pah	427802-1	WG1427924,WG1427802,ical17132
	Sample	SIM-LVI-fast(2.0).M	23	l2046874-01,32,,pah	46874-01	WG1427924,WG1427802,ical17132
	Sample	SIM-LVI-fast(2.0).M	24	l2046533-06,32,,nytcl	46533-06	WG1427924,WG1427426,ical17132
	Sample	SIM-LVI-fast(2.0).M	25	wg1427801-2,32,,pah	427801-2	WG1427924,WG1427801,ical17132
	Sample	SIM-LVI-fast(2.0).M	26	wg1427801-3,32,,pah	427801-3	WG1427924,WG1427801,ical17132
	Sample	SIM-LVI-fast(2.0).M	27	wg1427801-1,32,,pah	427801-1	WG1427924,WG1427801,ical17132

Keyword
Pause
Pause

ORGANIC ELN REPORT

Workgroup: WG1427426

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** DZ 849
Surrogate Type: ABN **Lot #:** 8941 04/02/21
Spike Type: ABN-SIM **Lot #:** 8944 03/21/21
Spike Verify by: SLRD
Lims Spikelot: 8270-LVI

Additional Reagents/Stds

H2SO4	A101020
Na2SO4	0000244889
NaOH	10NNaOH101620

Conc.Method: S-EVAP/N-EVAP
Solvent Type: DCM
Lot #: DZ849

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2046533-06 WATER	10/28/20 11:23	Samantha Deitzel	275	<2,>12	1		10/28/20 17:56	Eric Asamoah	1	M
L2046625-01 WATER	10/28/20 11:23	Samantha Deitzel	275	<2,>12	1		10/28/20 17:56	Eric Asamoah	1	M
L2046625-02 WATER	10/28/20 11:23	Samantha Deitzel	275	<2,>12	1		10/28/20 17:56	Eric Asamoah	1	M
L2046625-03 WATER	10/28/20 11:23	Samantha Deitzel	275	<2,>12	1		10/28/20 17:56	Eric Asamoah	1	M
L2046790-01 WATER	10/28/20 07:54	Samantha Deitzel	275	<2,>12	1		10/28/20 13:01	Eric Asamoah	1	M
L2046790-02 WATER	10/28/20 07:54	Samantha Deitzel	275	<2,>12	1		10/28/20 13:01	Eric Asamoah	1	M
L2046790-03 WATER	10/28/20 07:54	Samantha Deitzel	275	<2,>12	1		10/28/20 13:01	Eric Asamoah	1	M

Reported: 05-JAN-21 12:43 PM

ORGANIC ELN REPORT

Workgroup: WG1427426

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2046790-04 WATER	10/28/20 07:54	Samantha Deitzel	275	<2,>12	1		10/28/20 13:01	Eric Asamoah	1	M
L2046825-01 WATER	10/28/20 11:23	Samantha Deitzel	275	<2,>12	1		10/28/20 17:56	Eric Asamoah	1	M
L2046825-02 WATER	10/28/20 11:23	Samantha Deitzel	275	<2,>12	1		10/28/20 17:56	Eric Asamoah	1	M
L2046825-03 WATER	10/28/20 14:34	Samantha Deitzel	275	<2,>12	1		10/28/20 17:56	Eric Asamoah	1	M
L2046825-04 WATER	10/28/20 14:34	Samantha Deitzel	275	<2,>12	1		10/28/20 17:56	Eric Asamoah	1	M
L2046825-05 WATER	10/28/20 14:34	Samantha Deitzel	275	<2,>12	1		10/28/20 17:56	Eric Asamoah	1	M
L2046825-06 WATER	10/28/20 14:34	Samantha Deitzel	275	<2,>12	1		10/28/20 17:56	Eric Asamoah	1	M
L2047162-01 WATER	10/29/20 05:03	Francis Mbro-Menyah	275	<2,>12	1		10/29/20 09:53	Mark Gillespie	1	M
L2047162-02 WATER	10/29/20 05:03	Francis Mbro-Menyah	275	<2,>12	1		10/29/20 09:53	Mark Gillespie	1	M

Reported: 05-JAN-21 12:43 PM

ORGANIC ELN REPORT

Workgroup: WG1427426

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2047162-03 WATER	10/29/20 05:03	Francis Mbro-Menyah	275	<2,>12	1		10/29/20 09:53	Mark Gillespie	1	M
WG1427426-1 BLANK	10/28/20 07:54 **WG1427424**	Samantha Deitzel	275	<2,>12	1		10/28/20 13:01	Eric Asamoah	1	M
WG1427426-2 LCS	10/28/20 07:54	Samantha Deitzel	275	<2,>12	1	1	10/28/20 13:01	Eric Asamoah	1	M
WG1427426-3 LCSD	10/28/20 07:54	Samantha Deitzel	275	<2,>12	1	1	10/28/20 13:01	Eric Asamoah	1	M
WG1427426-4 MS	10/28/20 11:23	Samantha Deitzel	275	<2,>12	1	1	10/28/20 17:56	Eric Asamoah	1	M
WG1427426-5 MSD	10/28/20 11:23	Samantha Deitzel	275	<2,>12	1	1	10/28/20 17:56	Eric Asamoah	1	M

Reported: 05-JAN-21 12:43 PM

GC Extractable Analysis Polychlorinated Biphenyls (PCB)

Aroclor QC Summary

Surrogate Recovery Summary
Form 2
PCBs

Client: Impact Environmental
Project Name: 13-12 BEACH CHANNEL DRIVE

Lab Number: L2046790
Project Number: 15209
Matrix: Water

GC Column 1: CLP-Pesticide
GC Column 2: CLP-PesticideII

CLIENT ID (LAB SAMPLE NO.)	TCX 1 %REC	TCX 2 %REC	DCB 1 %REC	DCB 2 %REC	OTHER (1)	OTHER (2)	TOT OUT
MW-1 (L2046790-01)	73	74	45	49			0
MW-2 (L2046790-02)	74	71	58	60			0
MW-3 (L2046790-03)	68	64	35	39			0
TWP-1 (L2046790-04)	66	64	37	41			0
WG1426949-1BLANK	80	73	81	78			0
WG1426949-2LCS	93	87	97	93			0
WG1426949-3LCSD	82	79	84	83			0

QC LIMITS
(30-150) TCX = 2,4,5,6-TETRACHLORO-M-XYLENE
(30-150) DCBP = DECACHLOROBIPHENYL

*** Values outside of QC limits**

Laboratory Control Sample Summary
Form 3
PCBs

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Matrix	: WATER		
LCS Sample ID	: WG1426949-2 **Analysis Date** : 10/27/20 15:08	**File ID**	: P2201027a-25
LCSD Sample ID	: WG1426949-3 **Analysis Date** : 10/27/20 15:17	**File ID**	: P2201027a-26

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Aroclor 1016	1.78	1.71	96	1.78	1.49	83	14	40-140	50
Aroclor 1260	1.78	1.52	85	1.78	1.34	75	13	40-140	50

Method Blank Summary
Form 4
PCBs

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab Sample ID	: WG1426949-1	**Lab File ID**	: P2201027a-24
Matrix	: WATER	**Extraction Date**	: 10/27/20
Sulfur Cleanup	: Y		
Analysis Date (1)	: 10/27/20 15:00	**Analysis Date (2)**	: 10/27/20 15:00
Instrument ID (1)	: PEST2	**Instrument ID (2)**	: PEST2

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1426949-2LCS	WG1426949-2	10/27/20 15:08	10/27/20 15:08
WG1426949-3LCSD	WG1426949-3	10/27/20 15:17	10/27/20 15:17
MW-1	L2046790-01	10/29/20 10:25	10/29/20 10:25
MW-2	L2046790-02	10/29/20 10:33	10/29/20 10:33
MW-3	L2046790-03	10/29/20 10:41	10/29/20 10:41
TWP-1	L2046790-04	10/29/20 10:49	10/29/20 10:49

Analytical Sequence
Form 8b
PCBs

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: PEST2	**Initial Calib. Date(s)**	: 08/28/20 08/28/20

Client ID	Lab ID	Date/Time Analyzed
1016/1260 L1	R1351509-1	08/28/20 21:17
1016/1260 L2	R1351509-3	08/28/20 21:24
1016/1260 L3	R1351509-2	08/28/20 21:32
1016/1260 L4	R1351509-4	08/28/20 21:39
1016/1260 L5	R1351509-5	08/28/20 21:47
1016/1260 L6	R1351509-6	08/28/20 21:55
1242/1268 L4	R1351509-7	08/28/20 22:02
1232/1262 L4	R1351509-8	08/28/20 22:10
1248 L4	R1351509-9	08/28/20 22:17
1221/1254 L4	R1351509-10	08/28/20 22:25
R1351509-12 ICV	R1351509-12	08/28/20 22:32
R1351509-11 ICV	R1351509-11	08/28/20 22:40
R1351509-13 ICV	R1351509-13	08/28/20 22:47
R1351509-14 ICV	R1351509-14	08/28/20 22:55
R1351509-15 ICV	R1351509-15	09/17/20 15:06
WG1426966-1 CCAL	WG1426966-1	10/27/20 08:03
WG1426949-1 BLANK	WG1426949-1	10/27/20 15:00
WG1426949-2 LCS	WG1426949-2	10/27/20 15:08
WG1426949-3 LCSD	WG1426949-3	10/27/20 15:17
WG1428007-1 CCAL	WG1428007-1	10/29/20 07:57
MW-1	L2046790-01	10/29/20 10:25
MW-2	L2046790-02	10/29/20 10:33
MW-3	L2046790-03	10/29/20 10:41
TWP-1	L2046790-04	10/29/20 10:49

Date Created: 08/27/18
Created By: Jason Hebert
File: PM5369-1
Page: 1

SW-846 8082A - Polychlorinated Biphenyls (SOIL)

Holding Time: 14 days
Container / Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	33.5	2.97	ug/kg	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	33.5	3.36	ug/kg	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	33.5	7.10	ug/kg	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	33.5	4.52	ug/kg	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	33.5	5.03	ug/kg	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	33.5	3.66	ug/kg	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	33.5	6.19	ug/kg	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	33.5	4.25	ug/kg	40-140	30	40-140	50	50			
Aroclor 1268	11100-14-4	33.5	3.47	ug/kg	40-140	30	40-140	50	50			
PCBs, Total	1336-36-3	33.5	2.97	ug/kg				50	50			
PCBs, Total	1336-36-3	33.5	2.97	ug/kg				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 08/27/18
Created By: Jason Hebert
File: PM5369-1
Page: 1

PCB - EPA 8082A (WATER)

Holding Time: 7 days
Container / Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	0.25	0.0156	ug/l	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	0.25	0.0221	ug/l	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	0.25	0.046	ug/l	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	0.25	0.0362	ug/l	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	0.25	0.0455	ug/l	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	0.25	0.0168	ug/l	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	0.25	0.0344	ug/l	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	0.25	0.033	ug/l	40-140	30	40-140	50	50			
Aroclor 1268	11100-14-4	0.25	0.0317	ug/l	40-140	30	40-140	50	50			
PCBs, Total	1336-36-3	0.25	0.0156	ug/l				50	50			
PCBs, Total	1336-36-3	0.25	0.0156	ug/l				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Aroclor Sample Data

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-01	**Date Collected**	: 10/27/20 08:15
Client ID	: MW-1	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 10:25
Sample Matrix	: WATER	**Date Extracted**	: 10/28/20
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2201029a-07	**Analyst**	: CW
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.083	0.034	U
11104-28-2	Aroclor 1221	ND	0.083	0.067	U
11141-16-5	Aroclor 1232	ND	0.083	0.046	U
53469-21-9	Aroclor 1242	ND	0.083	0.039	U
12672-29-6	Aroclor 1248	ND	0.083	0.049	U
11097-69-1	Aroclor 1254	ND	0.083	0.039	U
11096-82-5	Aroclor 1260	ND	0.083	0.032	U
37324-23-5	Aroclor 1262	ND	0.083	0.035	U
11100-14-4	Aroclor 1268	ND	0.083	0.034	U
1336-36-3	PCBs, Total	ND	0.083	0.032	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Impact Environmental	Lab Number	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	Project Number	: 15209
Lab ID	: L2046790-02	Date Collected	: 10/27/20 09:30
Client ID	: MW-2	Date Received	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	Date Analyzed	: 10/29/20 10:33
Sample Matrix	: WATER	Date Extracted	: 10/28/20
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: P2201029a-08	Analyst	: CW
Sample Amount	: 140 ml	Instrument ID	: PEST2
Extraction Method	: EPA 3510C	GC Column	: CLP-Pesticide
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
12674-11-2	Aroclor 1016	ND	0.083	0.034	U
11104-28-2	Aroclor 1221	ND	0.083	0.067	U
11141-16-5	Aroclor 1232	ND	0.083	0.046	U
53469-21-9	Aroclor 1242	ND	0.083	0.039	U
12672-29-6	Aroclor 1248	ND	0.083	0.049	U
11097-69-1	Aroclor 1254	ND	0.083	0.039	U
11096-82-5	Aroclor 1260	ND	0.083	0.032	U
37324-23-5	Aroclor 1262	ND	0.083	0.035	U
11100-14-4	Aroclor 1268	ND	0.083	0.034	U
1336-36-3	PCBs, Total	ND	0.083	0.032	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-03	**Date Collected**	: 10/27/20 10:15
Client ID	: MW-3	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 10:41
Sample Matrix	: WATER	**Date Extracted**	: 10/28/20
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2201029a-09	**Analyst**	: CW
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.083	0.034	U
11104-28-2	Aroclor 1221	ND	0.083	0.067	U
11141-16-5	Aroclor 1232	ND	0.083	0.046	U
53469-21-9	Aroclor 1242	ND	0.083	0.039	U
12672-29-6	Aroclor 1248	ND	0.083	0.049	U
11097-69-1	Aroclor 1254	ND	0.083	0.039	U
11096-82-5	Aroclor 1260	ND	0.083	0.032	U
37324-23-5	Aroclor 1262	ND	0.083	0.035	U
11100-14-4	Aroclor 1268	ND	0.083	0.034	U
1336-36-3	PCBs, Total	ND	0.083	0.032	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-04	**Date Collected**	: 10/27/20 08:45
Client ID	: TWP-1	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 10:49
Sample Matrix	: WATER	**Date Extracted**	: 10/28/20
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2201029a-10	**Analyst**	: CW
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.083	0.034	U
11104-28-2	Aroclor 1221	ND	0.083	0.067	U
11141-16-5	Aroclor 1232	ND	0.083	0.046	U
53469-21-9	Aroclor 1242	ND	0.083	0.039	U
12672-29-6	Aroclor 1248	ND	0.083	0.049	U
11097-69-1	Aroclor 1254	ND	0.083	0.039	U
11096-82-5	Aroclor 1260	ND	0.083	0.032	U
37324-23-5	Aroclor 1262	ND	0.083	0.035	U
11100-14-4	Aroclor 1268	ND	0.083	0.034	U
1336-36-3	PCBs, Total	ND	0.083	0.032	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Impact Environmental	Lab Number	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	Project Number	: 15209
Lab ID	: WG1426949-1	Date Collected	: NA
Client ID	: WG1426949-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 10/27/20 15:00
Sample Matrix	: WATER	Date Extracted	: 10/27/20
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: P2201027a-24	Analyst	: CW
Sample Amount	: 140 ml	Instrument ID	: PEST2
Extraction Method	: EPA 3510C	GC Column	: CLP-Pesticide
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
12674-11-2	Aroclor 1016	ND	0.083	0.034	U
11104-28-2	Aroclor 1221	ND	0.083	0.067	U
11141-16-5	Aroclor 1232	ND	0.083	0.046	U
53469-21-9	Aroclor 1242	ND	0.083	0.039	U
12672-29-6	Aroclor 1248	ND	0.083	0.049	U
11097-69-1	Aroclor 1254	ND	0.083	0.039	U
11096-82-5	Aroclor 1260	ND	0.083	0.032	U
37324-23-5	Aroclor 1262	ND	0.083	0.035	U
11100-14-4	Aroclor 1268	ND	0.083	0.034	U
1336-36-3	PCBs, Total	ND	0.083	0.032	U

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\201029A\
Data File : P2201029a-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Oct 2020 10:25 am
Operator : pest2:cw
Sample : L2046790-01,42,,
Misc : wg1428007,WG1426949,ical17147 (Sig #1); wg1428007,WG1427550,ical17147 (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 29 14:14:38 2020
Quant Method : I:\Pest2\201029A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest2\201029A\P2201029a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.199	1.248	227.2E6	57328305	25.000	25.000
	Standard Area 1 : #1 = 159036299				Recovery =	142.89%	
	Standard Area 1 : #2 = 44931290				Recovery =	127.59%	
14) i	2154_1br2nb	1.199	1.248	227.2E6	57328305	25.000	25.000
23) i	4268_1br2nb	1.199	1.248	227.2E6	57328305	25.000	25.000
34) i	1248_1br2nb	1.199	1.248	227.2E6	57328305	25.000	25.000
40) i	3262_1br2nb	1.199	1.248	227.2E6	57328305	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.494	1.636	180.6E6	45896283	14.657M4	14.748
	Spiked Amount 20.000	Range 30 - 150			Recovery =	73.28%	73.74%
3) s	Decachlorobi	4.133f	4.652f	88496525	23417753	8.930M3	9.877M4
	Spiked Amount 20.000	Range 30 - 150			Recovery =	44.65%	49.38%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.

Data Path : I:\Pest2\201029A\
Data File : P2201029a-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Oct 2020 10:25 am
Operator : pest2:cw
Sample : L2046790-01,42,,
Misc : wg1428007,WG1426949,ical17147 (Sig #1); wg1428007,WG1427550,ical17147 (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 29 14:14:38 2020
Quant Method : I:\Pest2\201029A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest2\201029A\P2201029a-03.d
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1260-1					0.000	0.000
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest2\201029A\
Data File : P2201029a-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Oct 2020 10:25 am
Operator : pest2:cw
Sample : L2046790-01,42,,
Misc : wg1428007,WG1426949,ical17147 (Sig #1); wg1428007,WG1427550,ical17147 (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 29 14:14:38 2020
Quant Method : I:\Pest2\201029A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest2\201029A\P2201029a-03.d
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

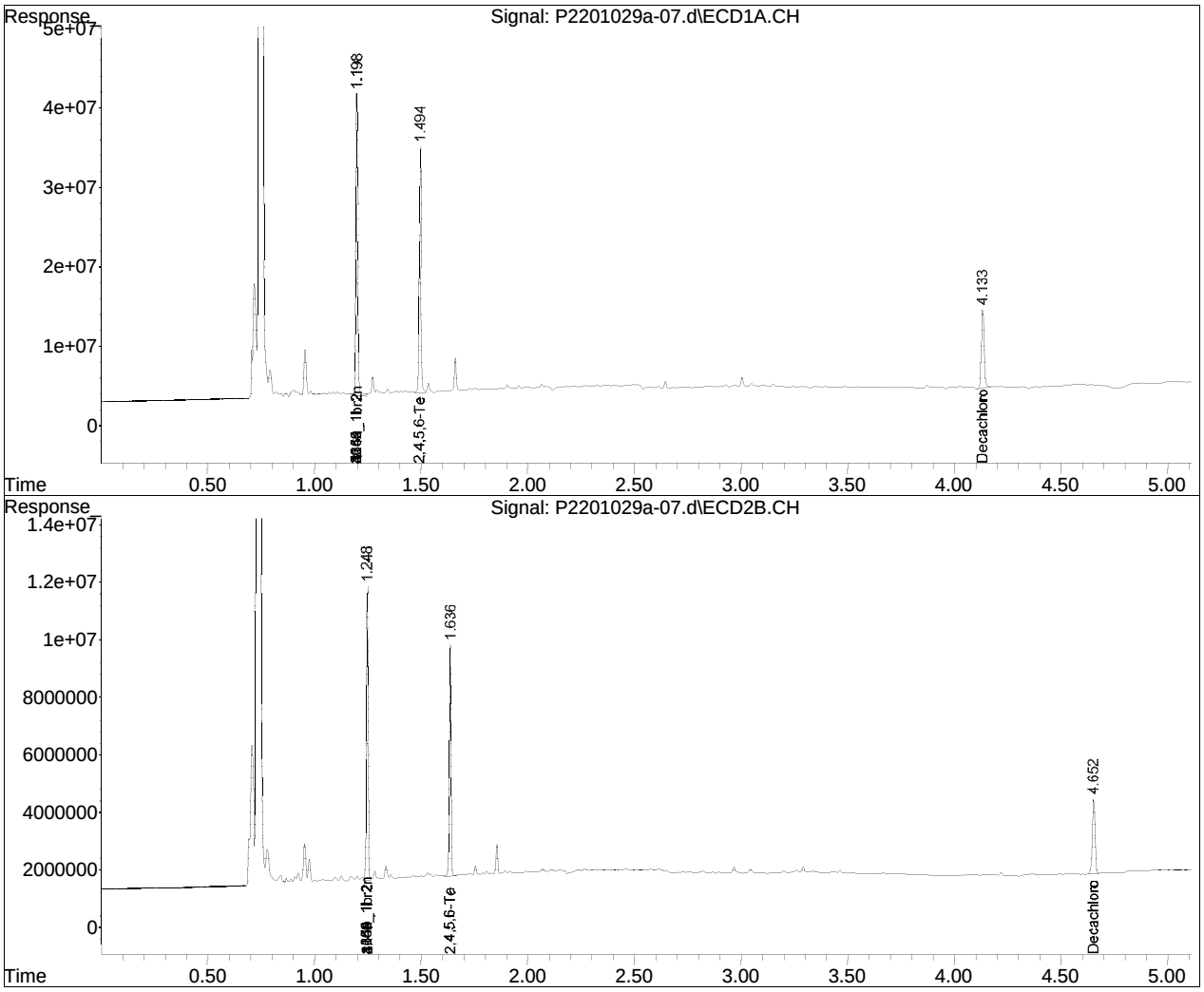
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed-03.d••ed)

Data Path : I:\Pest2\201029A\
Data File : P2201029a-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Oct 2020 10:25 am
Operator : pest2:cw
Sample : L2046790-01,42,,
Misc : wg1428007,WG1426949,ical17147 (Sig #1); wg1428007,WG1427550,ical17
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 29 14:14:38 2020
Quant Method : I:\Pest2\201029A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

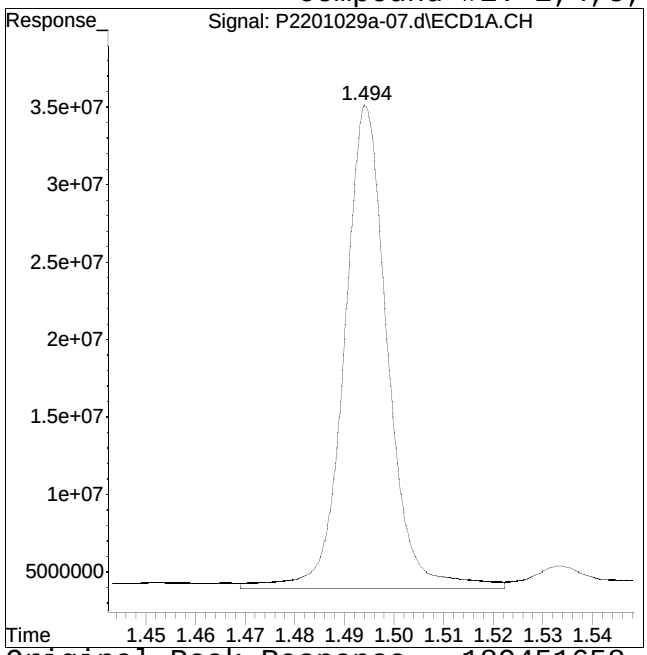


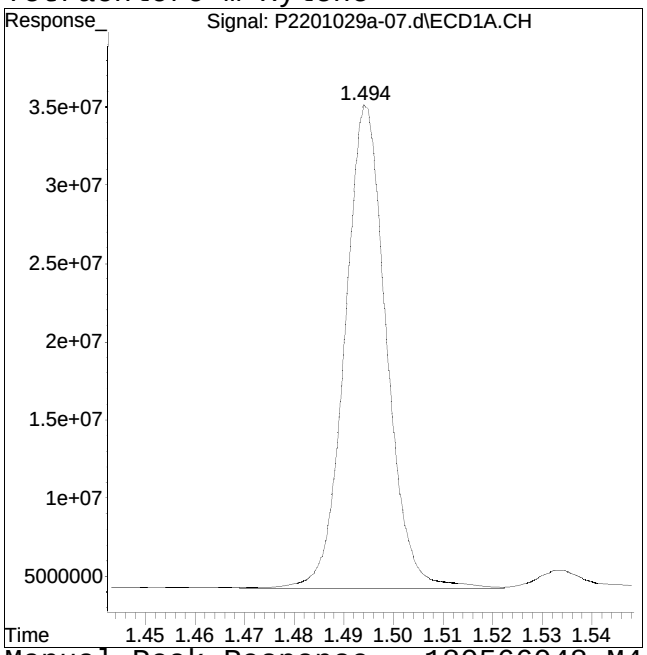
Manual Integration Report

Data Path : I:\Pest2\201029A\
Data File : P2201029a-07.d
Date Inj'd : 10/29/2020 10:25 am
Sample : L2046790-01,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/29/2020 1:43 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





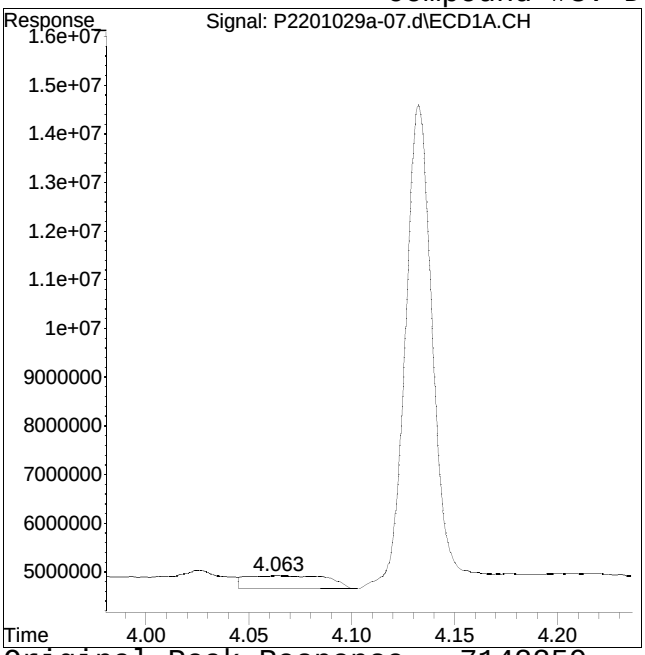
Original Peak Response = 189451658 Manual Peak Response = 180566048 M4
M4 = Poor automated baseline construction.

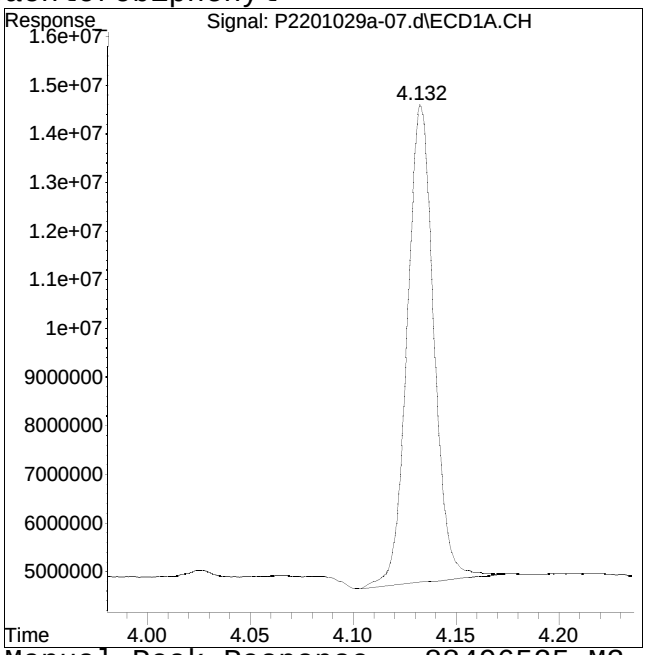
Manual Integration Report

Data Path : I:\Pest2\201029A\
Data File : P2201029a-07.d
Date Inj'd : 10/29/2020 10:25 am
Sample : L2046790-01,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/29/2020 1:43 pm

Compound #3: Decachlorobiphenyl





Original Peak Response = 7142259 Manual Peak Response = 88496525 M3

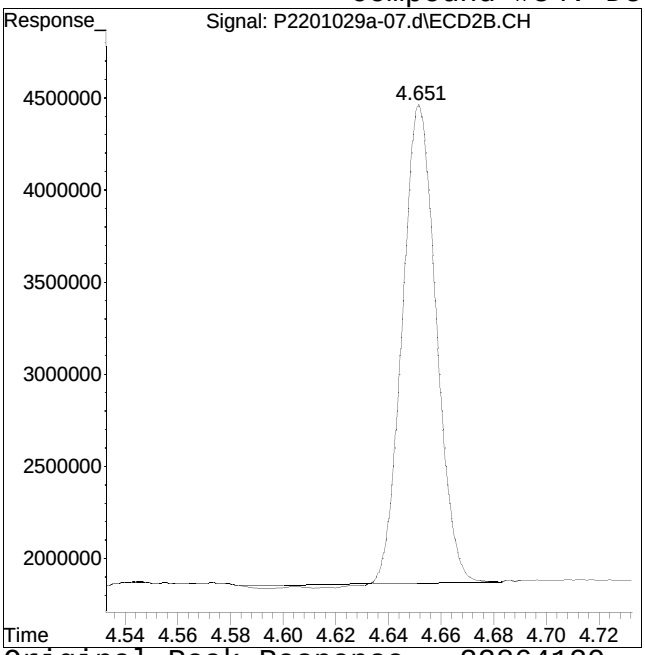
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

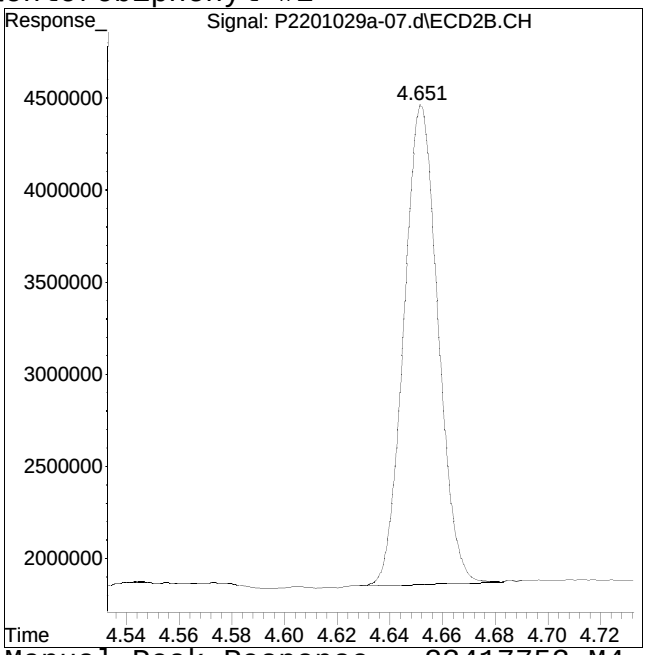
Manual Integration Report

Data Path : I:\Pest2\201029A\
Data File : P2201029a-07.d
Date Inj'd : 10/29/2020 10:25 am
Sample : L2046790-01,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/29/2020 1:43 pm

Compound #54: Decachlorobiphenyl #2





Original Peak Response = 22864120 Manual Peak Response = 23417753 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\201029A\
Data File : P2201029a-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Oct 2020 10:33 am
Operator : pest2:cw
Sample : L2046790-02,42,,
Misc : wg1428007,WG1426949,ical17147
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 29 14:16:38 2020
Quant Method : I:\Pest2\201029A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest2\201029A\P2201029a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.194	1.247	208.2E6	57627134	25.000M4	25.000
	Standard Area 1 : #1 = 159036299				Recovery = 130.93%		
	Standard Area 1 : #2 = 44931290				Recovery = 128.26%		
14) i	2154_1br2nb	1.194	1.247	208.2E6	57627134	25.000M4	25.000
23) i	4268_1br2nb	1.194	1.247	208.2E6	57627134	25.000M4	25.000
34) i	1248_1br2nb	1.194	1.247	208.2E6	57627134	25.000M4	25.000
40) i	3262_1br2nb	1.194	1.247	208.2E6	57627134	25.000M4	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.485	1.629	166.3E6	44518873	14.734M4	14.232
	Spiked Amount 20.000	Range 30 - 150			Recovery = 73.67%		71.16%
3) s	Decachlorobi	4.089	4.601	105.3E6	28750965	11.596M4	12.063M4
	Spiked Amount 20.000	Range 30 - 150			Recovery = 57.98%		60.32%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1016-1			0	0	N.D.	N.D.
Average 1016-1						0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D.	N.D.
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1						0.000	0.000

Data Path : I:\Pest2\201029A\
Data File : P2201029a-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Oct 2020 10:33 am
Operator : pest2:cw
Sample : L2046790-02,42,,
Misc : wg1428007,WG1426949,ical17147
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 29 14:16:38 2020
Quant Method : I:\Pest2\201029A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest2\201029A\P2201029a-03.d
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D.	N.D.
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest2\201029A\
Data File : P2201029a-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Oct 2020 10:33 am
Operator : pest2:cw
Sample : L2046790-02,42,,
Misc : wg1428007,WG1426949,ical17147
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 29 14:16:38 2020
Quant Method : I:\Pest2\201029A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest2\201029A\P2201029a-03.d
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

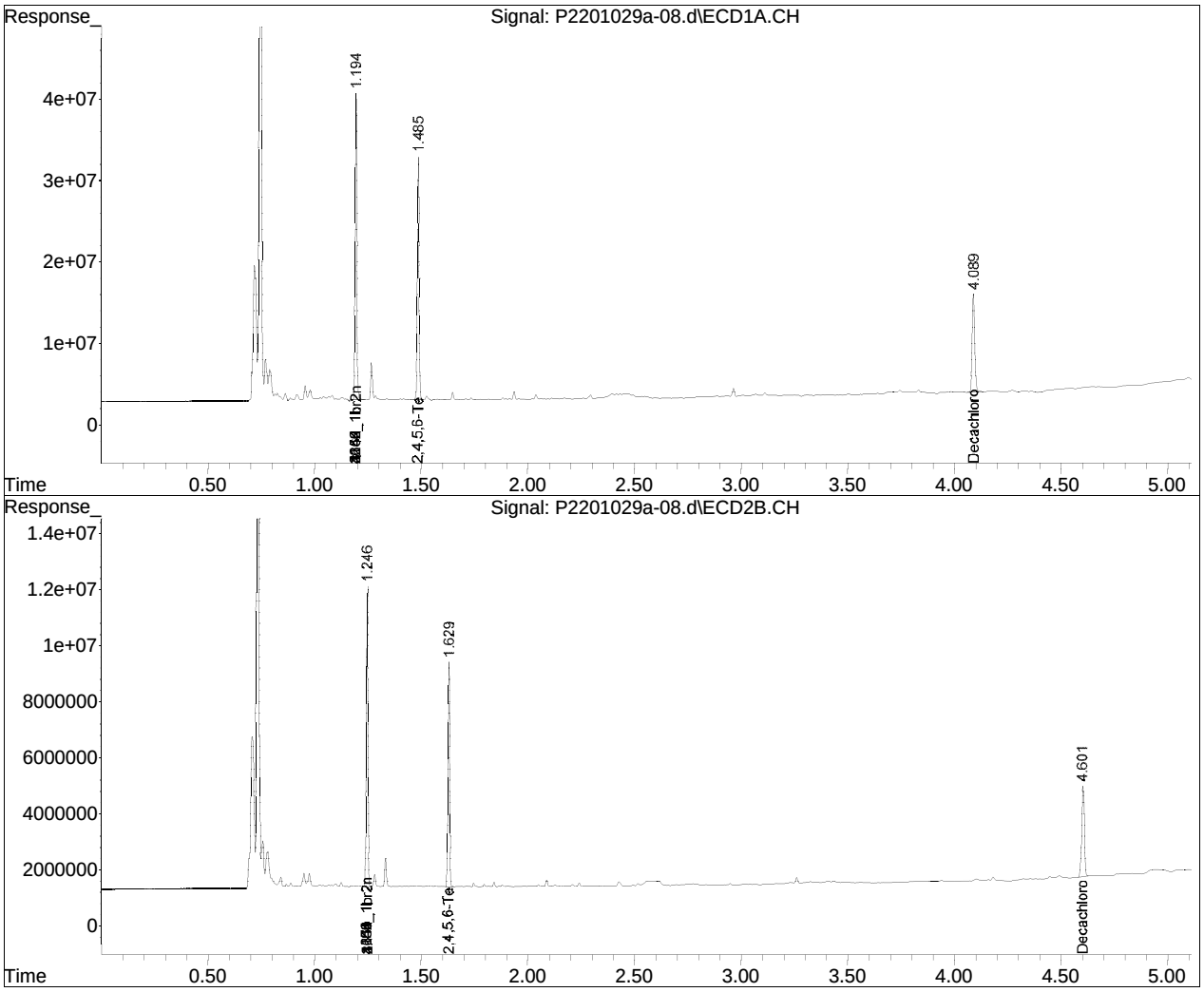
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listed-03.d••ed)

Data Path : I:\Pest2\201029A\
Data File : P2201029a-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Oct 2020 10:33 am
Operator : pest2:cw
Sample : L2046790-02,42,,
Misc : wg1428007,WG1426949,ical17147
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 29 14:16:38 2020
Quant Method : I:\Pest2\201029A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

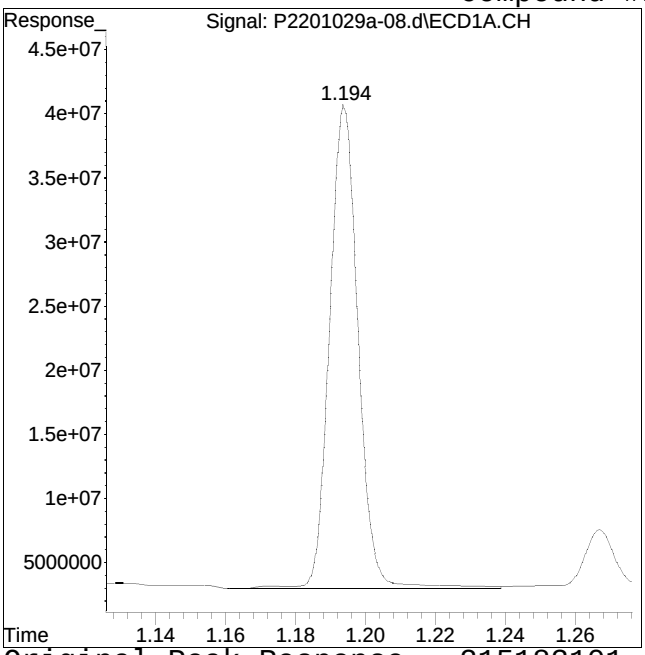


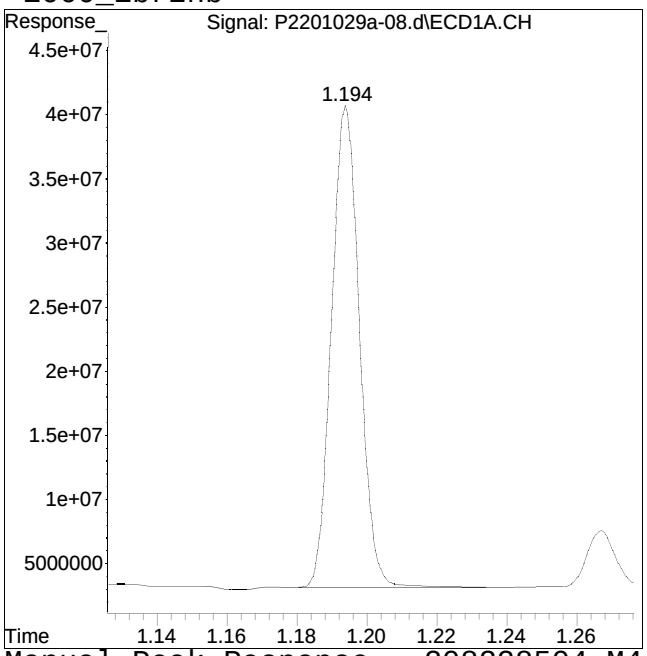
Manual Integration Report

Data Path : I:\Pest2\201029A\
Data File : P2201029a-08.d
Date Inj'd : 10/29/2020 10:33 am
Sample : L2046790-02,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/29/2020 1:43 pm

Compound #1: 1660_1br2nb





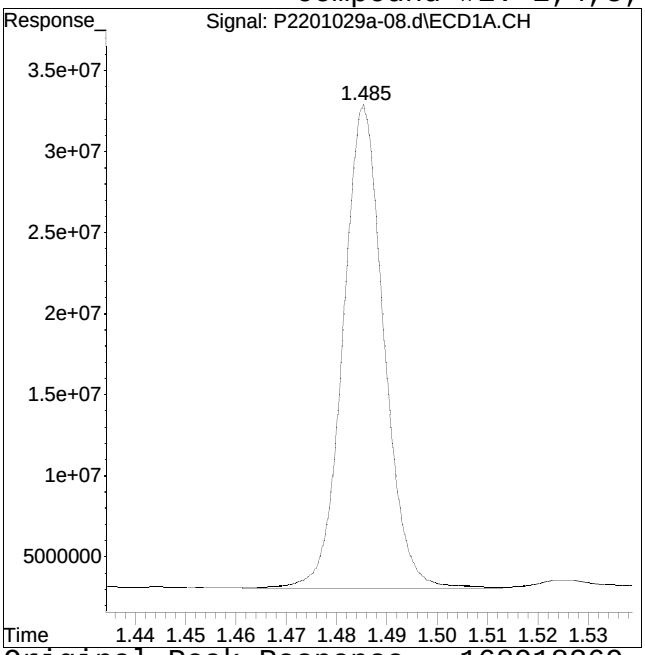
Original Peak Response = 215183101 Manual Peak Response = 208228504 M4
M4 = Poor automated baseline construction.

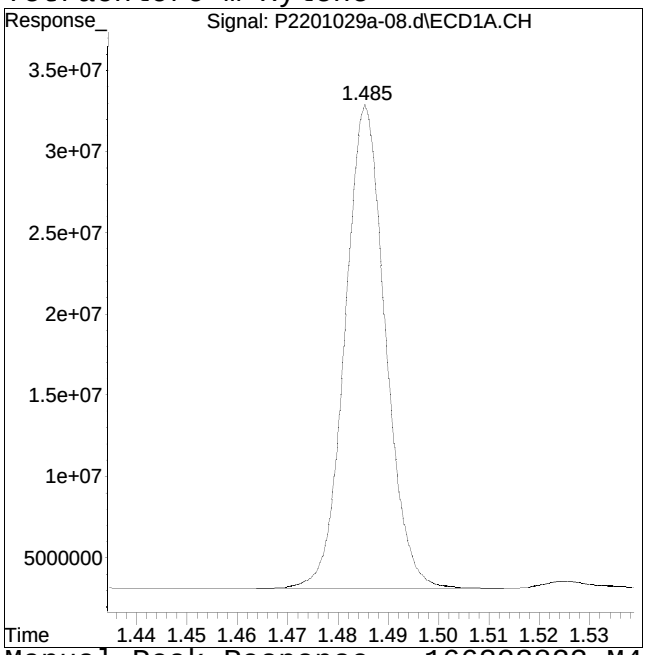
Manual Integration Report

Data Path : I:\Pest2\201029A\
Data File : P2201029a-08.d
Date Inj'd : 10/29/2020 10:33 am
Sample : L2046790-02,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/29/2020 1:43 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





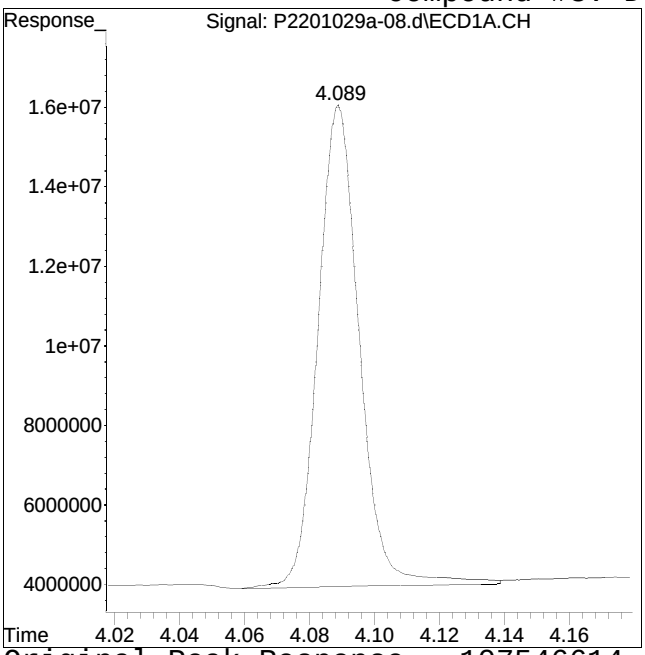
Original Peak Response = 168918369 Manual Peak Response = 166322823 M4
M4 = Poor automated baseline construction.

Manual Integration Report

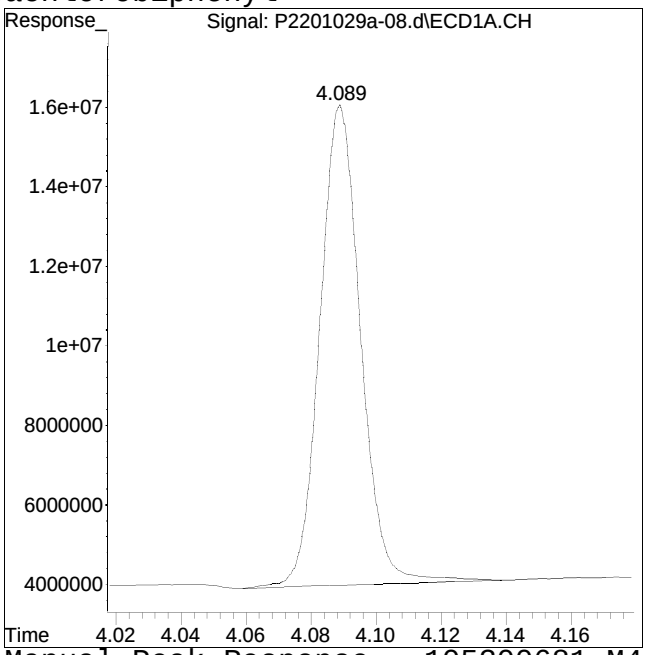
Data Path : I:\Pest2\201029A\
Data File : P2201029a-08.d
Date Inj'd : 10/29/2020 10:33 am
Sample : L2046790-02,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/29/2020 1:43 pm

Compound #3: Decachlorobiphenyl



Original Peak Response = 107546614



Manual Peak Response = 105300681 M4

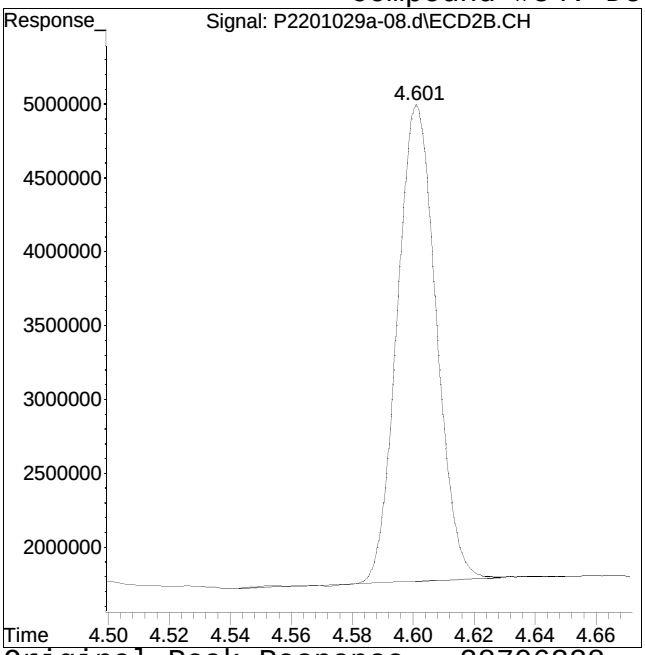
M4 = Poor automated baseline construction.

Manual Integration Report

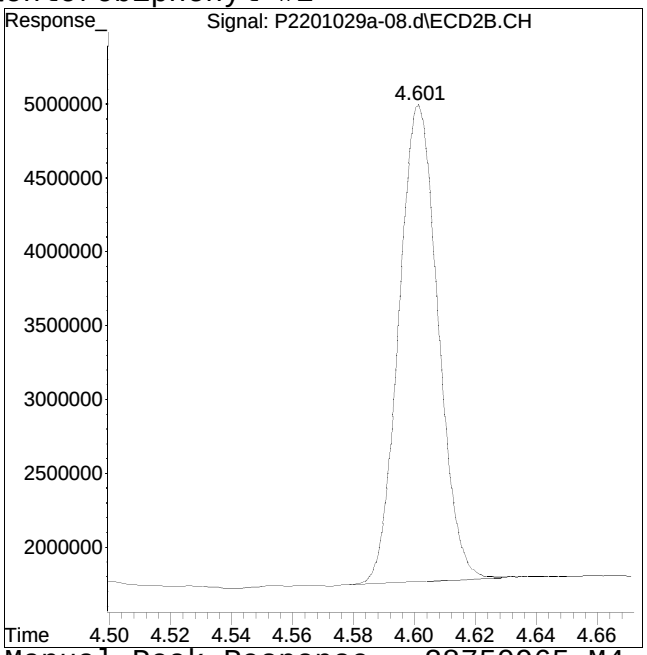
Data Path : I:\Pest2\201029A\
Data File : P2201029a-08.d
Date Inj'd : 10/29/2020 10:33 am
Sample : L2046790-02,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/29/2020 1:43 pm

Compound #54: Decachlorobiphenyl #2



Original Peak Response = 28706338



Manual Peak Response = 28750965 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\201029A\
Data File : P2201029a-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Oct 2020 10:41 am
Operator : pest2:cw
Sample : L2046790-03,42,,
Misc : wg1428007,WG1426949,ical17147
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 29 14:19:05 2020
Quant Method : I:\Pest2\201029A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest2\201029A\P2201029a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.194	1.248	222.6E6	62467819	25.000	25.000
	Standard Area 1 : #1 = 159036299				Recovery =	139.95%	
	Standard Area 1 : #2 = 44931290				Recovery =	139.03%	
14) i	2154_1br2nb	1.194	1.248	222.6E6	62467819	25.000	25.000
23) i	4268_1br2nb	1.194	1.248	222.6E6	62467819	25.000	25.000
34) i	1248_1br2nb	1.194	1.248	222.6E6	62467819	25.000	25.000
40) i	3262_1br2nb	1.194	1.248	222.6E6	62467819	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.486	1.629	163.2E6	43251865	13.529	12.755
	Spiked Amount 20.000	Range 30 - 150		Recovery =	67.64%	63.78%	
3) s	Decachlorobi	4.084	4.594	68183173	20113846	7.024M4	7.785M4
	Spiked Amount 20.000	Range 30 - 150		Recovery =	35.12%	38.92%	
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000

Data Path : I:\Pest2\201029A\
Data File : P2201029a-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Oct 2020 10:41 am
Operator : pest2:cw
Sample : L2046790-03,42,,
Misc : wg1428007,WG1426949,ical17147
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 29 14:19:05 2020
Quant Method : I:\Pest2\201029A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest2\201029A\P2201029a-03.d
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\201029A\
Data File : P2201029a-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Oct 2020 10:41 am
Operator : pest2:cw
Sample : L2046790-03,42,,
Misc : wg1428007,WG1426949,ical17147
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 29 14:19:05 2020
Quant Method : I:\Pest2\201029A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest2\201029A\P2201029a-03.d
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

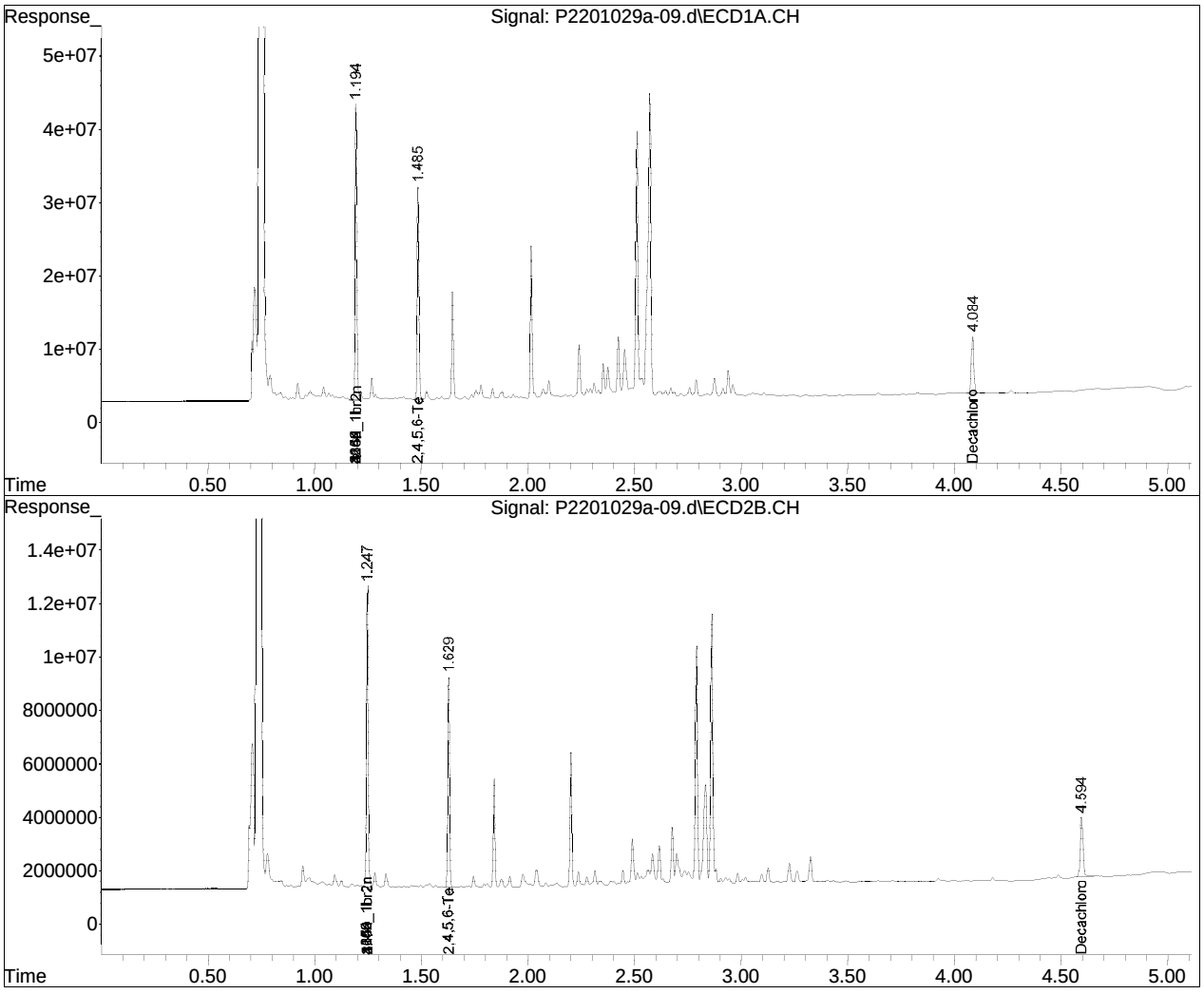
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listed-03.d••ed)

Data Path : I:\Pest2\201029A\
Data File : P2201029a-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Oct 2020 10:41 am
Operator : pest2:cw
Sample : L2046790-03,42,,
Misc : wg1428007,WG1426949,ical17147
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 29 14:19:05 2020
Quant Method : I:\Pest2\201029A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

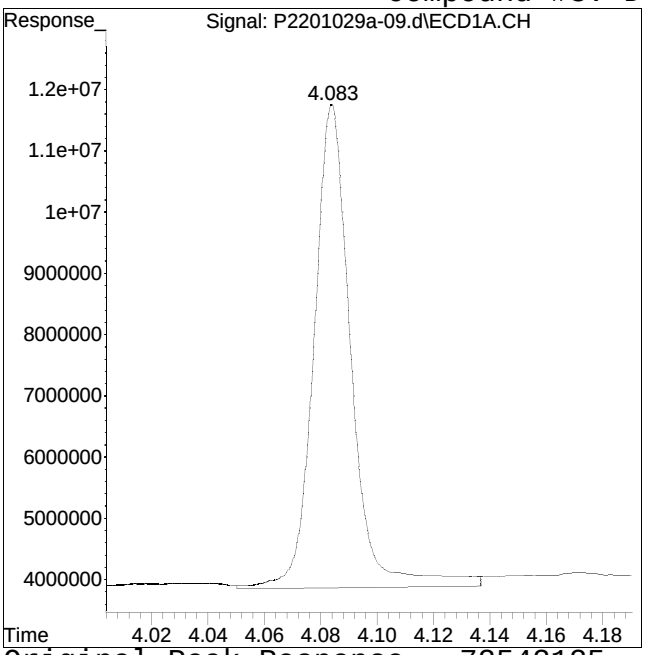


Manual Integration Report

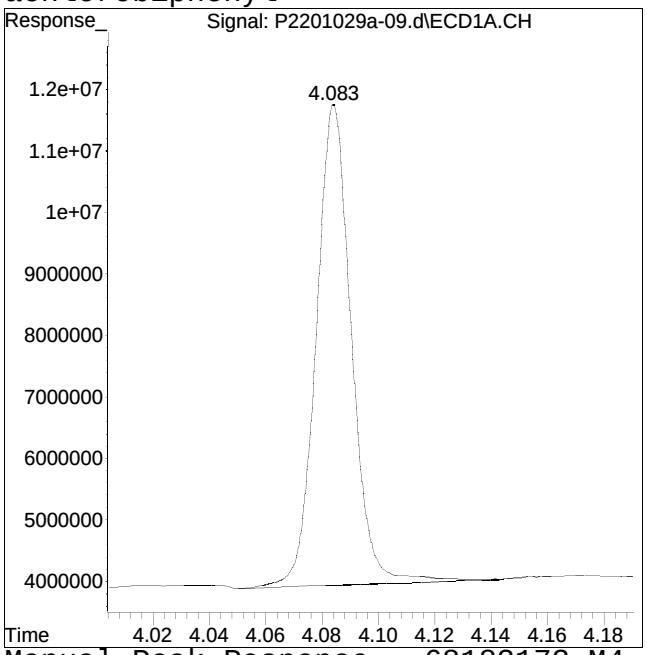
Data Path : I:\Pest2\201029A\
Data File : P2201029a-09.d
Date Inj'd : 10/29/2020 10:41 am
Sample : L2046790-03,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/29/2020 1:43 pm

Compound #3: Decachlorobiphenyl



Original Peak Response = 72542125



Manual Peak Response = 68183173 M4

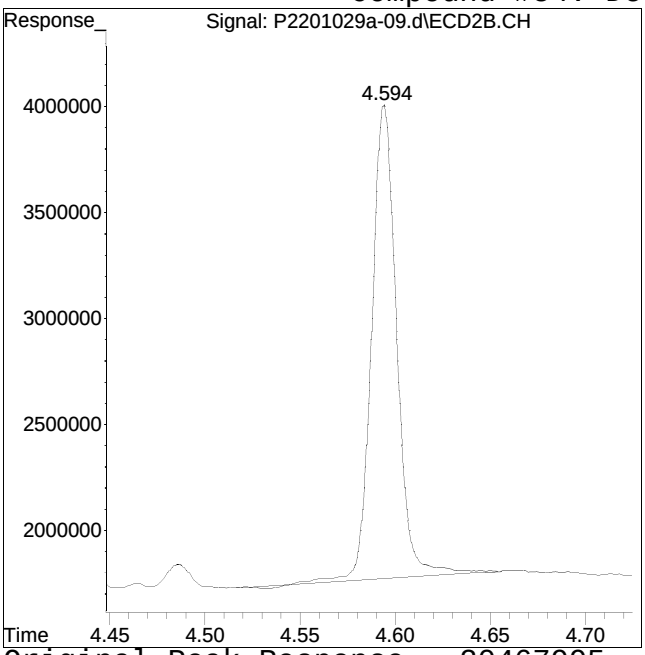
M4 = Poor automated baseline construction.

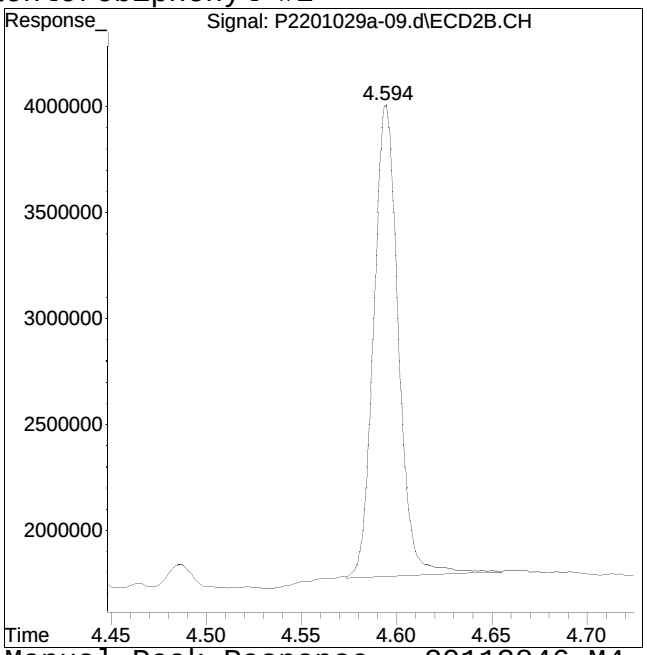
Manual Integration Report

Data Path : I:\Pest2\201029A\
Data File : P2201029a-09.d
Date Inj'd : 10/29/2020 10:41 am
Sample : L2046790-03,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/29/2020 1:43 pm

Compound #54: Decachlorobiphenyl #2





Original Peak Response = 20467995 Manual Peak Response = 20113846 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\201029A\
Data File : P2201029a-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Oct 2020 10:49 am
Operator : pest2:cw
Sample : L2046790-04,42,,
Misc : wg1428007,WG1426949,ical17147
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 29 14:20:36 2020
Quant Method : I:\Pest2\201029A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest2\201029A\P2201029a-03.d
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.196	1.248	225.1E6	61564173	25.000	25.000
Standard Area 1 : #1 = 159036299				Recovery =	141.56%	
Standard Area 1 : #2 = 44931290				Recovery =	137.02%	
14) i 2154_1br2nb	1.196	1.248	225.1E6	61564173	25.000	25.000
23) i 4268_1br2nb	1.196	1.248	225.1E6	61564173	25.000	25.000
34) i 1248_1br2nb	1.196	1.248	225.1E6	61564173	25.000	25.000
40) i 3262_1br2nb	1.196	1.248	225.1E6	61564173	25.000	25.000
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.487	1.630	160.7E6	43019241	13.170	12.873
Spiked Amount 20.000	Range 30 - 150			Recovery =	65.85%	64.36%
3) s Decachlorobi	4.084	4.593	71980549	20810661	7.331M4	8.173M4
Spiked Amount 20.000	Range 30 - 150			Recovery =	36.66%	40.87%
Target Compounds						
4) l1 1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1 1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1 1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1 1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1 1016-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1016-1			0	0	N.D.	N.D.
Average 1016-1					0.000	0.000
9) l2 1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2 1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2 1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000

Data Path : I:\Pest2\201029A\
Data File : P2201029a-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Oct 2020 10:49 am
Operator : pest2:cw
Sample : L2046790-04,42,,
Misc : wg1428007,WG1426949,ical17147
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 29 14:20:36 2020
Quant Method : I:\Pest2\201029A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest2\201029A\P2201029a-03.d
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest2\201029A\
Data File : P2201029a-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Oct 2020 10:49 am
Operator : pest2:cw
Sample : L2046790-04,42,,
Misc : wg1428007,WG1426949,ical17147
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 29 14:20:36 2020
Quant Method : I:\Pest2\201029A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest2\201029A\P2201029a-03.d
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

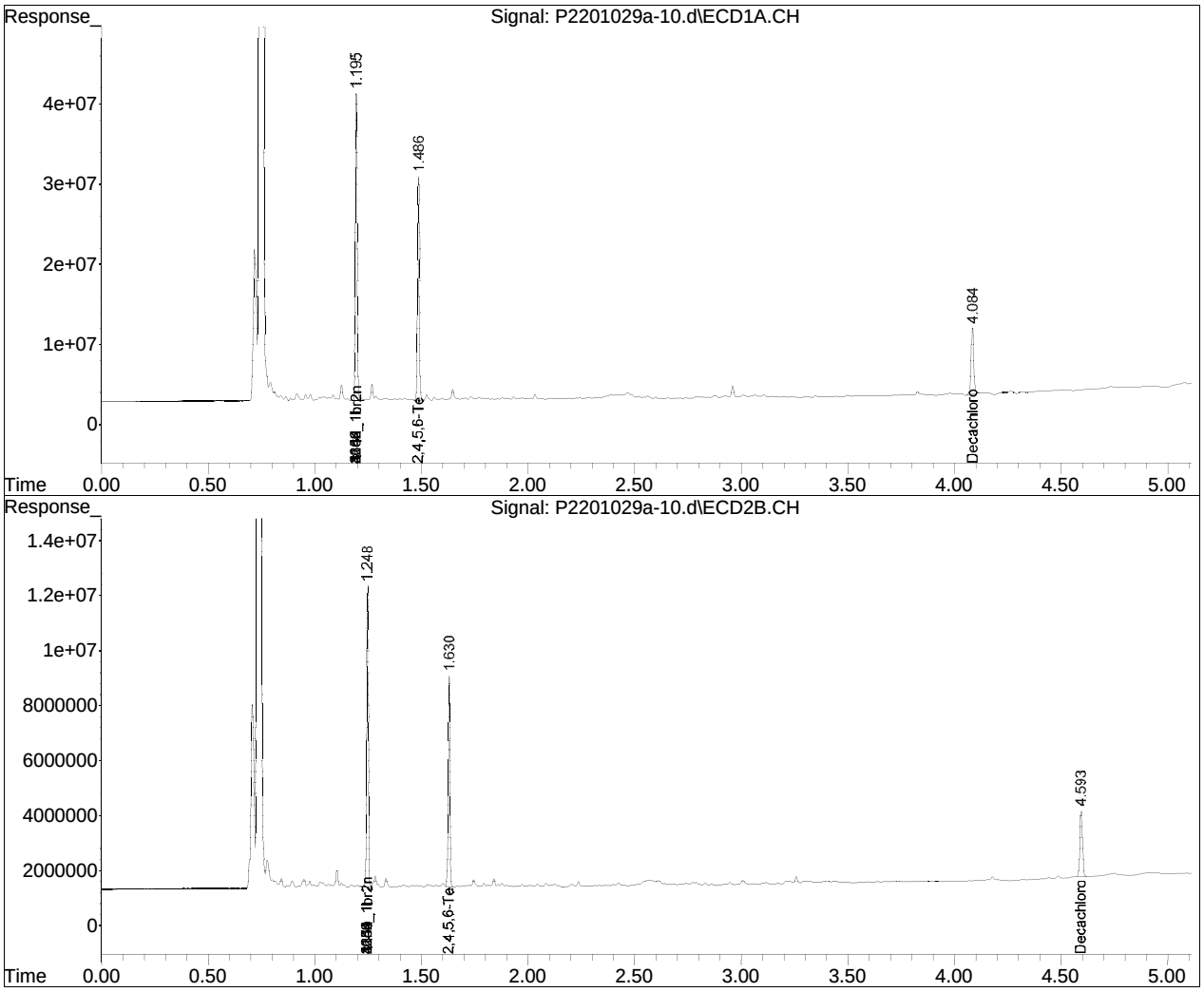
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listed-03.d••ed)

Data Path : I:\Pest2\201029A\
Data File : P2201029a-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Oct 2020 10:49 am
Operator : pest2:cw
Sample : L2046790-04,42,,
Misc : wg1428007,WG1426949,ical17147
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 29 14:20:36 2020
Quant Method : I:\Pest2\201029A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

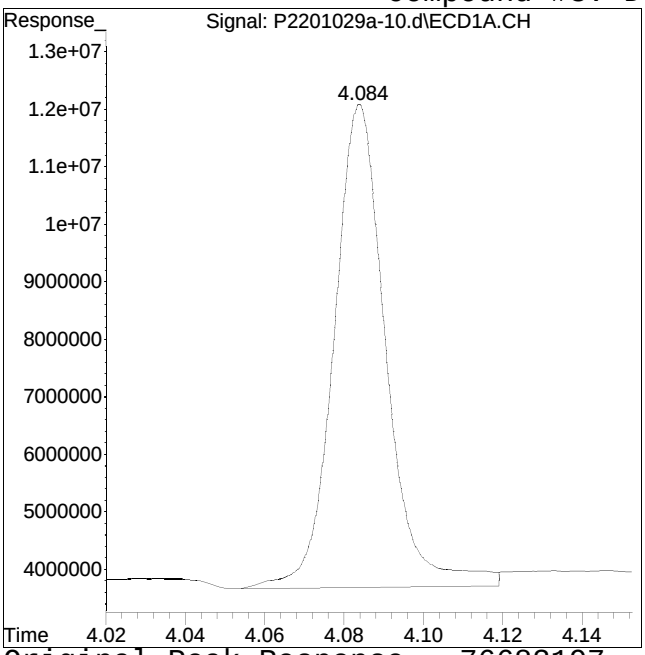


Manual Integration Report

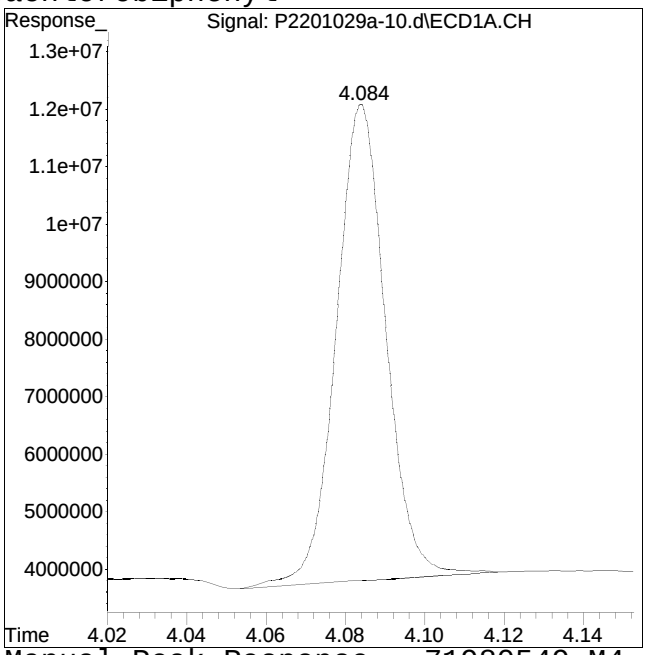
Data Path : I:\Pest2\201029A\
Data File : P2201029a-10.d
Date Inj'd : 10/29/2020 10:49 am
Sample : L2046790-04,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/29/2020 1:43 pm

Compound #3: Decachlorobiphenyl



Original Peak Response = 76683197



Manual Peak Response = 71980549 M4

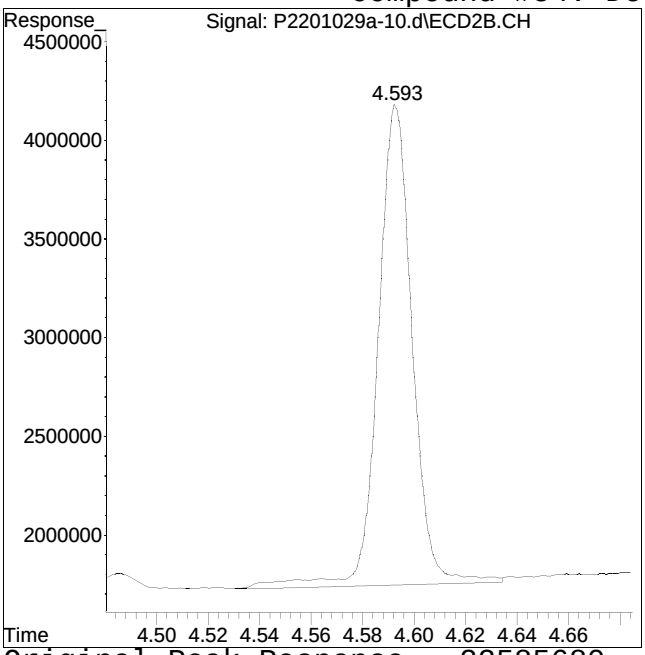
M4 = Poor automated baseline construction.

Manual Integration Report

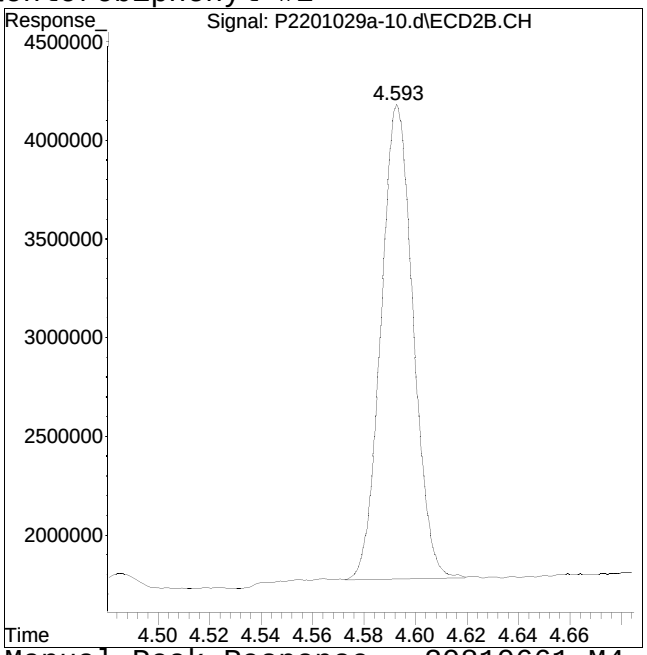
Data Path : I:\Pest2\201029A\
Data File : P2201029a-10.d
Date Inj'd : 10/29/2020 10:49 am
Sample : L2046790-04,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/29/2020 1:43 pm

Compound #54: Decachlorobiphenyl #2



Original Peak Response = 22585680



Manual Peak Response = 20810661 M4

M4 = Poor automated baseline construction.

Aroclor Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
PCBs

Client	**: Impact Environmental**	**Lab Number**	**: L2046790**
Project Name	**: 13-12 BEACH CHANNEL DRIVE**	**Project Number**	**: 15209**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL17147**
Calibration dates	**: 08/28/20 21:17 08/28/20 22:25**		

Calibration Files

1 =P2200828icala-04.d 2 =P2200828icala-05.d 3 =P2200828icala-06.d 4 =P2200828icala-07.d

5 =P2200828icala-08.d 6 =P2200828icala-09.d

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetra	1.394	1.251	1.348	1.386	1.401	1.351	1.355	4.13
3)	s	Decachlorobip	1.198	1.071	1.103	1.113	1.046	1.009	1.090	5.98
4)	l1	1016-1	0.024	0.024	0.024	0.024	0.024	0.023	0.024	2.68
5)	l1	1016-2	0.061	0.053	0.054	0.054	0.051	0.049	0.054	8.06
6)	l1	1016-3	0.114	0.105	0.106	0.110	0.108	0.097	0.107	5.48
7)	l1	1016-4	0.044	0.045	0.044	0.045	0.044	0.039	0.043	4.68
8)	l1	1016-5	0.051	0.050	0.046	0.047	0.045	0.040	0.046	8.62
9)	l2	1260-1	0.081	0.073	0.074	0.072	0.069	0.060	0.072	9.74
10)	l2	1260-2	0.113	0.110	0.111	0.110	0.106	0.091	0.107	7.75
11)	l2	1260-3	0.062	0.071	0.072	0.070	0.067	0.059	0.067	8.03
12)	l2	1260-4	0.159	0.152	0.161	0.162	0.158	0.136	0.155	6.23
13)	l2	1260-5	0.111	0.099	0.103	0.106	0.103	0.092	0.102	6.40
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2				0.013			0.013	0.00
16)	l3	1221-3				0.008			0.008	0.00
17)	l3	1221-4				0.033			0.033	0.00
18)	l4	1254-1				0.043			0.043	0.00
19)	l4	1254-2				0.079			0.079	0.00
20)	l4	1254-3				0.078			0.078	0.00
21)	l4	1254-4				0.061			0.061	0.00
22)	l4	1254-5				0.083			0.083	0.00
23)	i	4268_1br2nb	----------ISTD----------							
24)	l6	1242-1				0.018			0.018	0.00
25)	l6	1242-2				0.040			0.040	0.00
26)	l6	1242-3				0.084			0.084	0.00
27)	l6	1242-4				0.033			0.033	0.00
28)	l6	1242-5				0.027			0.027	0.00
29)	l9	1268-1				0.185			0.185	0.00
30)	l9	1268-2				0.172			0.172	0.00
31)	l9	1268-3				0.132			0.132	0.00
32)	l9	1268-4				0.061			0.061	0.00
33)	l9	1268-5				0.420			0.420	0.00
34)	i	1248_1br2nb	----------ISTD----------							
35)	l7	1248-1				0.054			0.054	0.00
36)	l7	1248-2				0.066			0.066	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Impact Environmental**	**Lab Number**	**: L2046790**
Project Name	**: 13-12 BEACH CHANNEL DRIVE**	**Project Number**	**: 15209**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL17147**
Calibration dates	**: 08/28/20 21:17 08/28/20 22:25**		

Calibration Files

1 =P2200828icala-04.d 2 =P2200828icala-05.d 3 =P2200828icala-06.d 4 =P2200828icala-07.d

5 =P2200828icala-08.d 6 =P2200828icala-09.d

	Compound	1	2	3	4	5	6	Avg	%RSD
37) l7	1248-3				0.058			0.058	0.00
38) l7	1248-4				0.052			0.052	0.00
39) l7	1248-5				0.045			0.045	0.00
40) i	3262_1br2nb				----------ISTD----------				
41) l5	1232-1				0.027			0.027	0.00
42) l5	1232-2				0.024			0.024	0.00
43) l5	1232-3				0.051			0.051	0.00
44) l5	1232-4				0.021			0.021	0.00
45) l5	1232-5				0.015			0.015	0.00
46) l8	1262-1				0.074			0.074	0.00
47) l8	1262-2				0.104			0.104	0.00
48) l8	1262-3				0.086			0.086	0.00
49) l8	1262-4				0.168			0.168	0.00
50) l8	1262-5				0.055			0.055	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Impact Environmental**	**Lab Number**	**: L2046790**
Project Name	**: 13-12 BEACH CHANNEL DRIVE**	**Project Number**	**: 15209**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL17147**
Calibration dates	**: 08/28/20 21:17 08/28/20 22:25**		

Signal #2 Calibration Files

1 =P2200828icala-04.d 2 =P2200828icala-05.d 3 =P2200828icala-06.d 4 =P2200828icala-07.d

5 =P2200828icala-08.d 6 =P2200828icala-09.d

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetra	1.494	1.332	1.341	1.361	1.339	1.275	1.357	5.40
3)	s	Decachlorobip	1.333	1.033	1.041	1.005	0.916	0.876	1.034	15.54
4)	l1	1016-1	0.034	0.027	0.026	0.025	0.024	0.022	0.026	15.40
5)	l1	1016-2	0.064	0.055	0.058	0.055	0.052	0.047	0.055	10.30
6)	l1	1016-3	0.129	0.109	0.109	0.107	0.102	0.090	0.108	11.63
7)	l1	1016-4	0.051	0.045	0.045	0.042	0.040	0.036	0.043	12.20
8)	l1	1016-5	0.040	0.036	0.035	0.034	0.033	0.029	0.035	10.78
9)	l2	1260-1	0.088	0.072	0.072	0.071	0.066	0.056	0.071	14.86
10)	l2	1260-2	0.101	0.083	0.084	0.081	0.078	0.066	0.082	14.00
11)	l2	1260-3	0.081	0.068	0.069	0.068	0.064	0.055	0.068	12.17
12)	l2	1260-4	0.168	0.138	0.141	0.140	0.132	0.114	0.139	12.50
13)	l2	1260-5	0.118	0.098	0.099	0.097	0.091	0.080	0.097	12.67
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2				0.014			0.014	0.00
16)	l3	1221-3				0.009			0.009	0.00
17)	l3	1221-4				0.033			0.033	0.00
18)	l4	1254-1				0.049			0.049	0.00
19)	l4	1254-2				0.065			0.065	0.00
20)	l4	1254-3				0.086			0.086	0.00
21)	l4	1254-4				0.058			0.058	0.00
22)	l4	1254-5				0.080			0.080	0.00
23)	i	4268_1br2nb	----------ISTD----------							
24)	l6	1242-1				0.019			0.019	0.00
25)	l6	1242-2				0.042			0.042	0.00
26)	l6	1242-3				0.081			0.081	0.00
27)	l6	1242-4				0.033			0.033	0.00
28)	l6	1242-5				0.027			0.027	0.00
29)	l9	1268-1				0.164			0.164	0.00
30)	l9	1268-2				0.148			0.148	0.00
31)	l9	1268-3				0.122			0.122	0.00
32)	l9	1268-4				0.055			0.055	0.00
33)	l9	1268-5				0.359			0.359	0.00
34)	i	1248_1br2nb	----------ISTD----------							
35)	l7	1248-1				0.056			0.056	0.00
36)	l7	1248-2				0.036			0.036	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Impact Environmental**	**Lab Number**	**: L2046790**
Project Name	**: 13-12 BEACH CHANNEL DRIVE**	**Project Number**	**: 15209**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL17147**
Calibration dates	**: 08/28/20 21:17 08/28/20 22:25**		

Signal #2 Calibration Files

1 =P2200828icala-04.d 2 =P2200828icala-05.d 3 =P2200828icala-06.d 4 =P2200828icala-07.d

5 =P2200828icala-08.d 6 =P2200828icala-09.d

	Compound	1	2	3	4	5	6	Avg	%RSD
37) l7	1248-3				0.044			0.044	0.00
38) l7	1248-4				0.049			0.049	0.00
39) l7	1248-5				0.056			0.056	0.00
40) i	3262_1br2nb				----------ISTD----------				
41) l5	1232-1				0.027			0.027	0.00
42) l5	1232-2				0.028			0.028	0.00
43) l5	1232-3				0.050			0.050	0.00
44) l5	1232-4				0.020			0.020	0.00
45) l5	1232-5				0.015			0.015	0.00
46) l8	1262-1				0.062			0.062	0.00
47) l8	1262-2				0.086			0.086	0.00
48) l8	1262-3				0.077			0.077	0.00
49) l8	1262-4				0.144			0.144	0.00
50) l8	1262-5				0.052			0.052	0.00

Response Factor Report PEST 2

Method Path : I:\Pest2\200828icalLVI\
Method File : P2_pcb_08_28_20_LVI_ugL_ICAL.m
Title : pcb
Last Update : Fri Sep 18 17:10:37 2020
Response Via : Initial Calibration

Calibration Files
1 =P2200828icala-04.d 2 =P2200828icala-05.d 3 =P2200828icala-06.d 4 =P2200828icala-07.d
5 =P2200828icala-08.d 6 =P2200828icala-09.d

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetra...	1.394	1.251	1.348	1.386	1.401	1.351	1.355	4.13
3)	s	Decachlorobip...	1.198	1.071	1.103	1.113	1.046	1.009	1.090	5.98
4)	l1	1016-1	0.024	0.024	0.024	0.024	0.024	0.023	0.024	2.68
5)	l1	1016-2	0.061	0.053	0.054	0.054	0.051	0.049	0.054	8.06
6)	l1	1016-3	0.114	0.105	0.106	0.110	0.108	0.097	0.107	5.48
7)	l1	1016-4	0.044	0.045	0.044	0.045	0.044	0.039	0.043	4.68
8)	l1	1016-5	0.051	0.050	0.046	0.047	0.045	0.040	0.046	8.62
9)	l2	1260-1	0.081	0.073	0.074	0.072	0.069	0.060	0.072	9.74
10)	l2	1260-2	0.113	0.110	0.111	0.110	0.106	0.091	0.107	7.75
11)	l2	1260-3	0.062	0.071	0.072	0.070	0.067	0.059	0.067	8.03
12)	l2	1260-4	0.159	0.152	0.161	0.162	0.158	0.136	0.155	6.23
13)	l2	1260-5	0.111	0.099	0.103	0.106	0.103	0.092	0.102	6.40
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2				0.013			0.013	0.00
16)	l3	1221-3				0.008			0.008	0.00
17)	l3	1221-4				0.033			0.033	0.00
18)	l4	1254-1				0.043			0.043	0.00
19)	l4	1254-2				0.079			0.079	0.00
20)	l4	1254-3				0.078			0.078	0.00
21)	l4	1254-4				0.061			0.061	0.00
22)	l4	1254-5				0.083			0.083	0.00
23)	i	4268_1br2nb	----------ISTD----------							
24)	l6	1242-1				0.018			0.018	0.00
25)	l6	1242-2				0.040			0.040	0.00
26)	l6	1242-3				0.084			0.084	0.00
27)	l6	1242-4				0.033			0.033	0.00
28)	l6	1242-5				0.027			0.027	0.00
29)	l9	1268-1				0.185			0.185	0.00

Method Path : I:\Pest2\200828icalLVI\
Method File : P2_pcb_08_28_20_LVI_ugL_ICAL.m
Title : pcb
Last Update : Fri Sep 18 17:10:37 2020
Response Via : Initial Calibration

Calibration Files
1 =P2200828icala-04.d 2 =P2200828icala-05.d 3 =P2200828icala-06.d 4 =P2200828icala-07.d
5 =P2200828icala-08.d 6 =P2200828icala-09.d

	Compound	1	2	3	4	5	6	Avg	%RSD
30) l9	1268-2				0.172			0.172	0.00
31) l9	1268-3				0.132			0.132	0.00
32) l9	1268-4				0.061			0.061	0.00
33) l9	1268-5				0.420			0.420	0.00
34) i	1248_1br2nb	----------ISTD----------							
35) l7	1248-1				0.054			0.054	0.00
36) l7	1248-2				0.066			0.066	0.00
37) l7	1248-3				0.058			0.058	0.00
38) l7	1248-4				0.052			0.052	0.00
39) l7	1248-5				0.045			0.045	0.00
40) i	3262_1br2nb	----------ISTD----------							
41) l5	1232-1				0.027			0.027	0.00
42) l5	1232-2				0.024			0.024	0.00
43) l5	1232-3				0.051			0.051	0.00
44) l5	1232-4				0.021			0.021	0.00
45) l5	1232-5				0.015			0.015	0.00
46) l8	1262-1				0.074			0.074	0.00
47) l8	1262-2				0.104			0.104	0.00
48) l8	1262-3				0.086			0.086	0.00
49) l8	1262-4				0.168			0.168	0.00
50) l8	1262-5				0.055			0.055	0.00

Signal #2 Calibration Files
1 =P2200828icala-04.d 2 =P2200828icala-05.d 3 =P2200828icala-06.d 4 =P2200828icala-07.d
5 =P2200828icala-08.d 6 =P2200828icala-09.d

	Compound	1	2	3	4	5	6	Avg	%RSD
1) i	1660_1br2nb	----------ISTD----------							
2) s	2,4,5,6-Tetra...	1.494	1.332	1.341	1.361	1.339	1.275	1.357	5.40

Method Path : I:\Pest2\200828icalLVI\
Method File : P2_pcb_08_28_20_LVI_ugL_ICAL.m
Title : pcb
Last Update : Fri Sep 18 17:10:37 2020
Response Via : Initial Calibration

Calibration Files
1 =P2200828icala-04.d 2 =P2200828icala-05.d 3 =P2200828icala-06.d 4 =P2200828icala-07.d
5 =P2200828icala-08.d 6 =P2200828icala-09.d

		Compound	1	2	3	4	5	6	Avg	%RSD
3)	s	Decachlorobip...	1.333	1.033	1.041	1.005	0.916	0.876	1.034	15.54
4)	l1	1016-1	0.034	0.027	0.026	0.025	0.024	0.022	0.026	15.40
5)	l1	1016-2	0.064	0.055	0.058	0.055	0.052	0.047	0.055	10.30
6)	l1	1016-3	0.129	0.109	0.109	0.107	0.102	0.090	0.108	11.63
7)	l1	1016-4	0.051	0.045	0.045	0.042	0.040	0.036	0.043	12.20
8)	l1	1016-5	0.040	0.036	0.035	0.034	0.033	0.029	0.035	10.78
9)	l2	1260-1	0.088	0.072	0.072	0.071	0.066	0.056	0.071	14.86
10)	l2	1260-2	0.101	0.083	0.084	0.081	0.078	0.066	0.082	14.00
11)	l2	1260-3	0.081	0.068	0.069	0.068	0.064	0.055	0.068	12.17
12)	l2	1260-4	0.168	0.138	0.141	0.140	0.132	0.114	0.139	12.50
13)	l2	1260-5	0.118	0.098	0.099	0.097	0.091	0.080	0.097	12.67
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2				0.014			0.014	0.00
16)	l3	1221-3				0.009			0.009	0.00
17)	l3	1221-4				0.033			0.033	0.00
18)	l4	1254-1				0.049			0.049	0.00
19)	l4	1254-2				0.065			0.065	0.00
20)	l4	1254-3				0.086			0.086	0.00
21)	l4	1254-4				0.058			0.058	0.00
22)	l4	1254-5				0.080			0.080	0.00
23)	i	4268_1br2nb	----------ISTD----------							
24)	l6	1242-1				0.019			0.019	0.00
25)	l6	1242-2				0.042			0.042	0.00
26)	l6	1242-3				0.081			0.081	0.00
27)	l6	1242-4				0.033			0.033	0.00
28)	l6	1242-5				0.027			0.027	0.00
29)	l9	1268-1				0.164			0.164	0.00
30)	l9	1268-2				0.148			0.148	0.00
31)	l9	1268-3				0.122			0.122	0.00
32)	l9	1268-4				0.055			0.055	0.00
33)	l9	1268-5				0.359			0.359	0.00

Method Path : I:\Pest2\200828icalLVI\
Method File : P2_pcb_08_28_20_LVI_ugL_ICAL.m
Title : pcb
Last Update : Fri Sep 18 17:10:37 2020
Response Via : Initial Calibration

Calibration Files
1 =P2200828icala-04.d 2 =P2200828icala-05.d 3 =P2200828icala-06.d 4 =P2200828icala-07.d
5 =P2200828icala-08.d 6 =P2200828icala-09.d

		Compound	1	2	3	4	5	6	Avg	%RSD
34)	i	1248_1br2nb	----------ISTD----------							
35)	l7	1248-1				0.056			0.056	0.00
36)	l7	1248-2				0.036			0.036	0.00
37)	l7	1248-3				0.044			0.044	0.00
38)	l7	1248-4				0.049			0.049	0.00
39)	l7	1248-5				0.056			0.056	0.00
40)	i	3262_1br2nb	----------ISTD----------							
41)	l5	1232-1				0.027			0.027	0.00
42)	l5	1232-2				0.028			0.028	0.00
43)	l5	1232-3				0.050			0.050	0.00
44)	l5	1232-4				0.020			0.020	0.00
45)	l5	1232-5				0.015			0.015	0.00
46)	l8	1262-1				0.062			0.062	0.00
47)	l8	1262-2				0.086			0.086	0.00
48)	l8	1262-3				0.077			0.077	0.00
49)	l8	1262-4				0.144			0.144	0.00
50)	l8	1262-5				0.052			0.052	0.00

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 9:17 pm
Operator : pest2:kb
Sample : il11660,42e,,9810
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:36:58 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:34:53 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.208	1.262	145.1E6	51624412	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.499	1.644	5177135	1975088	0.662	0.719
Spiked Amount	20.000	Range 30 - 150		Recovery =		3.31%#	3.59%#
3) s	Decachlorobi	4.101	4.618	8761867	3468356	1.413	1.724
Spiked Amount	20.000	Range 30 - 150		Recovery =		7.07%#	8.62%#
	Target Compounds						
4) l1	1016-1	1.640	1.850	1363996	695455	9.560	13.624M2
5) l1	1016-2	1.784	2.025	3564452	1323482	11.790	12.010
6) l1	1016-3	1.976	2.230	6640487	2658419	10.742M4	12.433
7) l1	1016-4	2.031	2.291	2525437	1062532	10.044M4	12.377
8) l1	1016-5	2.204	2.505	2979102	821083	11.315M4	11.872M4
Sum	1016-1			17073474	6560972	53.451	62.317
Average	1016-1					10.690	12.463
9) l2	1260-1	2.755	3.123	4705980	1822039	11.637M4	13.256M4
10) l2	1260-2	2.886	3.224	6582792	2093192	10.759M4	12.956M4
11) l2	1260-3	3.206	3.623	3599082	1666984	9.102M4	12.430
12) l2	1260-4	3.363	3.753	9201625	3460283	11.061	12.597
13) l2	1260-5	3.512	3.957	6434623	2427312	11.020M1	12.643M4
Sum	1260-1			30524101	11469809	NoCal	NoCal D
Average	1260-1					10.716	12.776

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 9:17 pm
Operator : pest2:kb
Sample : il11660,42e,,9810
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:36:58 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:34:53 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D.	N.D.
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 9:17 pm
Operator : pest2:kb
Sample : il11660,42e,,9810
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:36:58 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:34:53 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

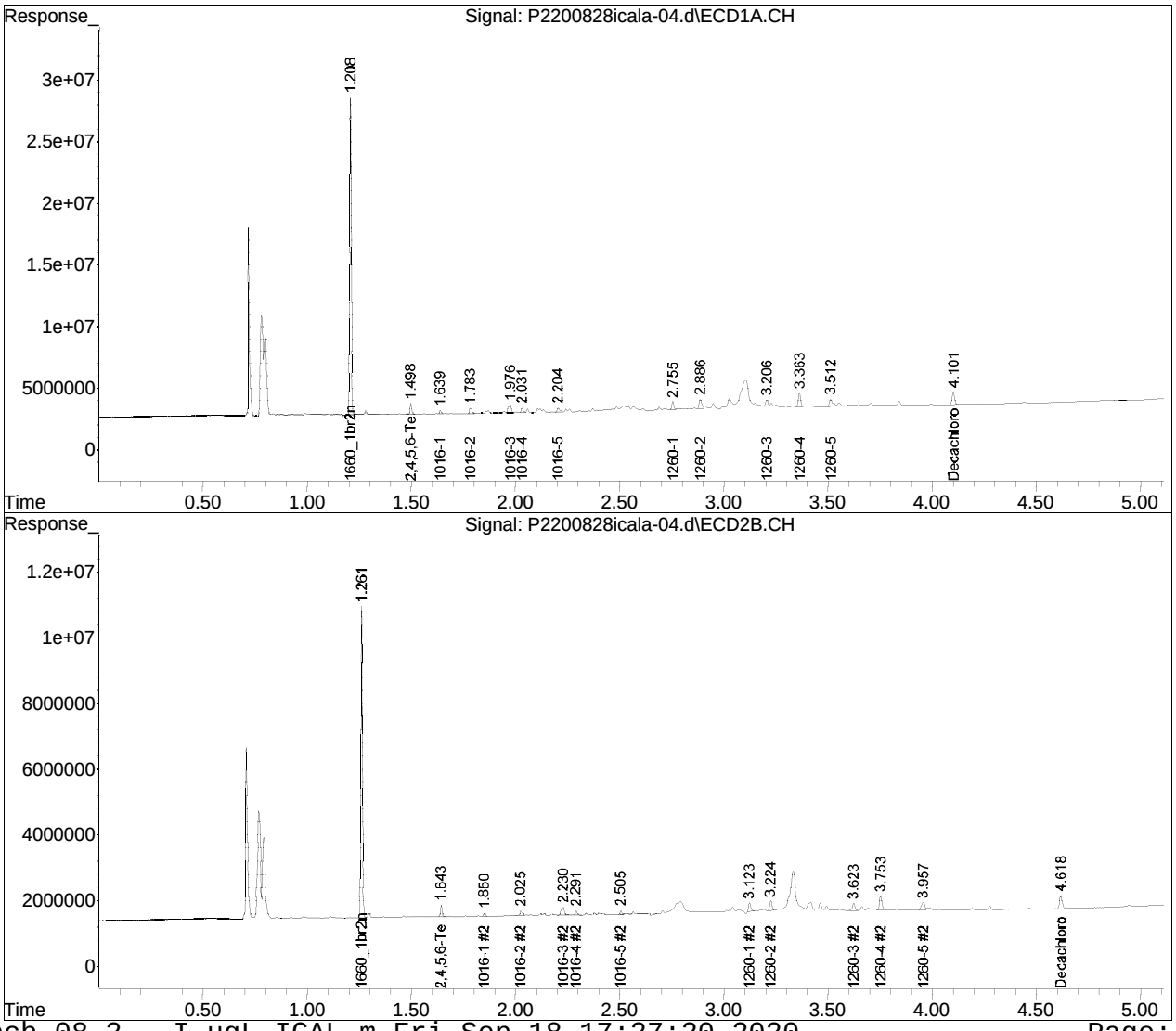
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 9:17 pm
Operator : pest2:kb
Sample : il11660,42e,,9810
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:36:58 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:34:53 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

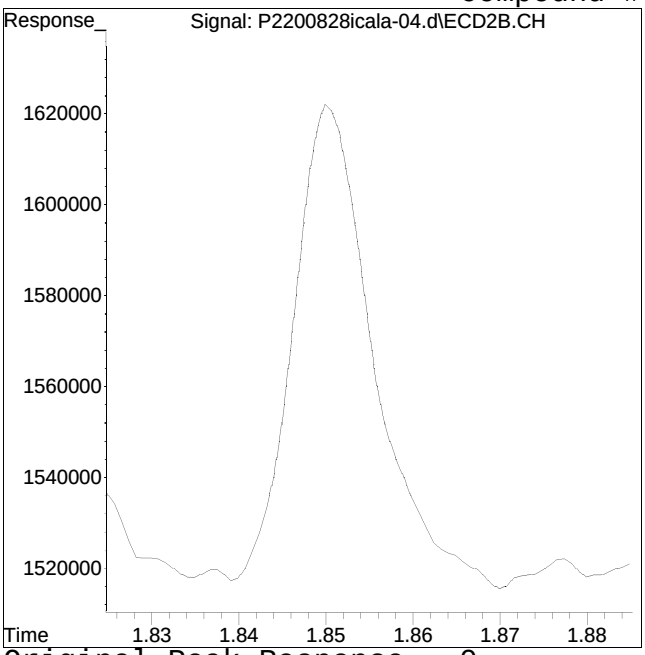


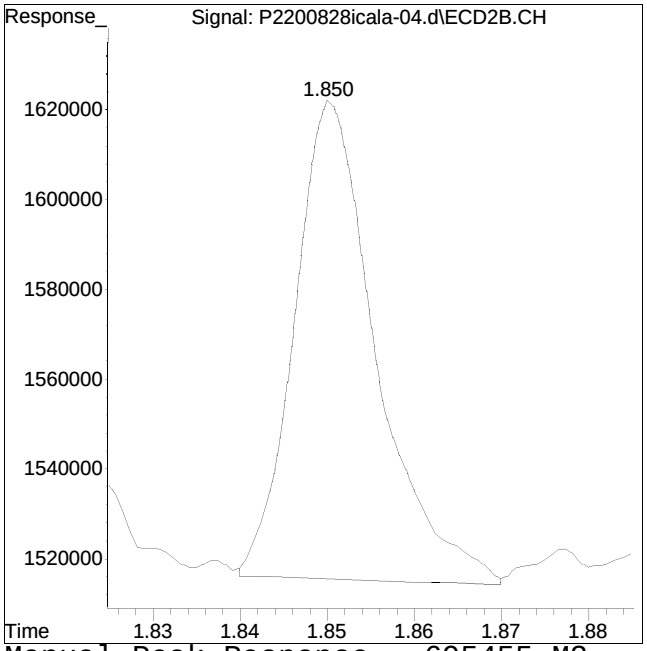
Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-04.d
Date Inj'd : 8/28/2020 9:17 pm
Sample : il11660,42e,,9810

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:kb
Instrument : PEST 2
Quant Date : 9/15/2020 11:35 am

Compound #55: 1016-1 #2





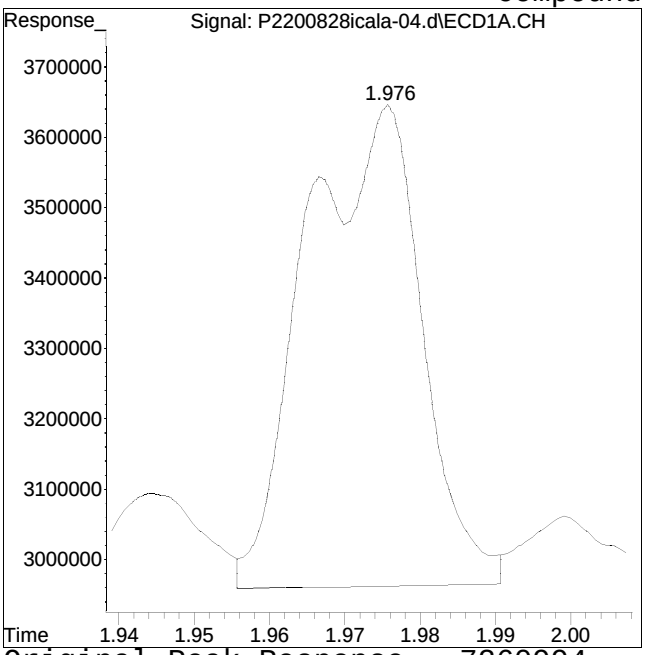
Original Peak Response = 0
Manual Peak Response = 695455 M2
M2 = Peak not found by automatic integration algorithm.

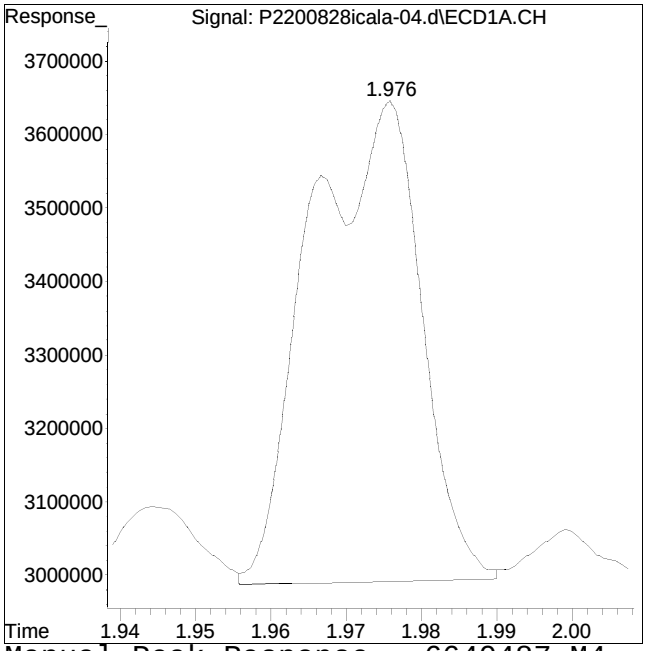
Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-04.d
Date Inj'd : 8/28/2020 9:17 pm
Sample : il11660,42e,,9810

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:kb
Instrument : PEST 2
Quant Date : 9/15/2020 11:35 am

Compound #6: 1016-3





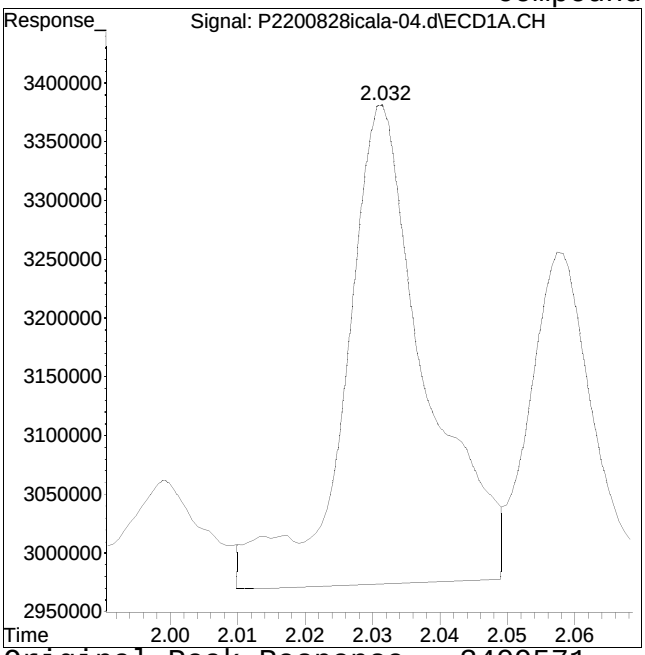
Original Peak Response = 7260994 Manual Peak Response = 6640487 M4
M4 = Poor automated baseline construction.

Manual Integration Report

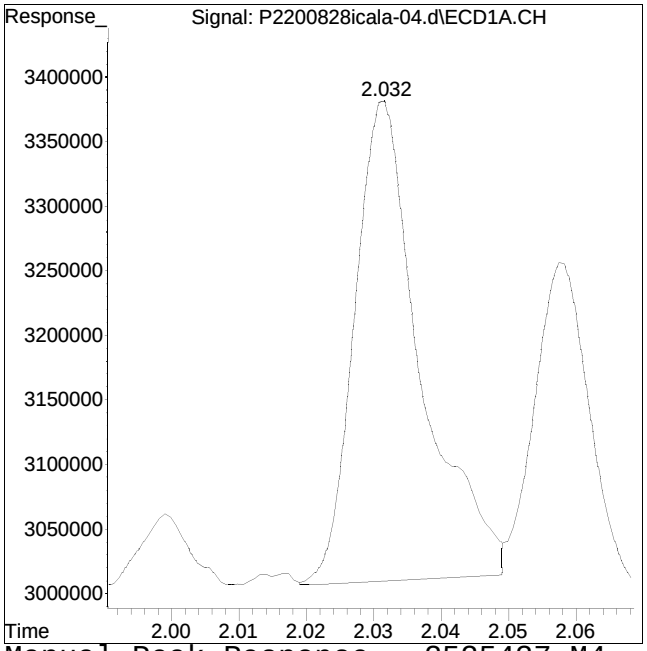
Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-04.d
Date Inj'd : 8/28/2020 9:17 pm
Sample : il11660,42e,,9810

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:kb
Instrument : PEST 2
Quant Date : 9/15/2020 11:35 am

Compound #7: 1016-4



Original Peak Response = 3409571



Manual Peak Response = 2525437 M4

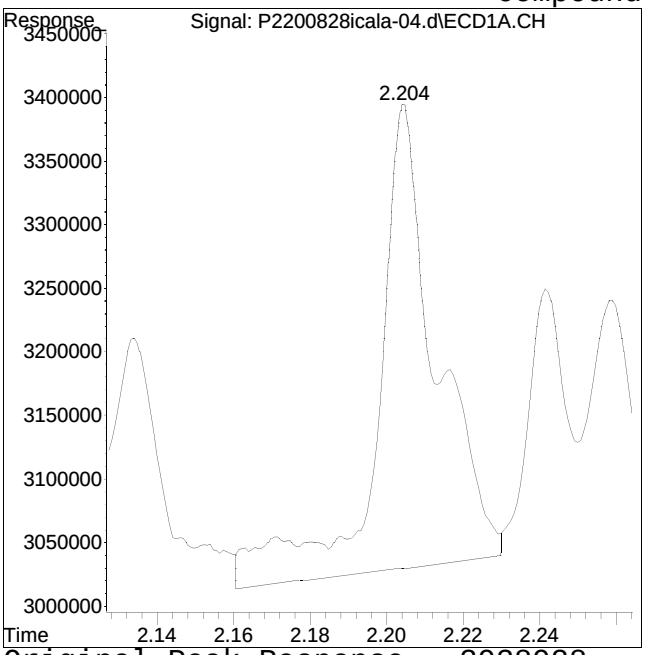
M4 = Poor automated baseline construction.

Manual Integration Report

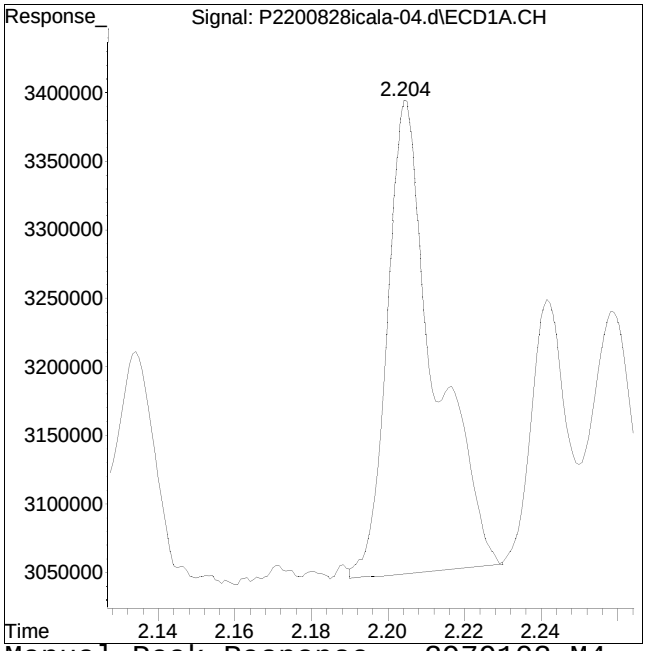
Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-04.d
Date Inj'd : 8/28/2020 9:17 pm
Sample : il11660,42e,,9810

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:kb
Instrument : PEST 2
Quant Date : 9/15/2020 11:35 am

Compound #8: 1016-5



Original Peak Response = 3938928



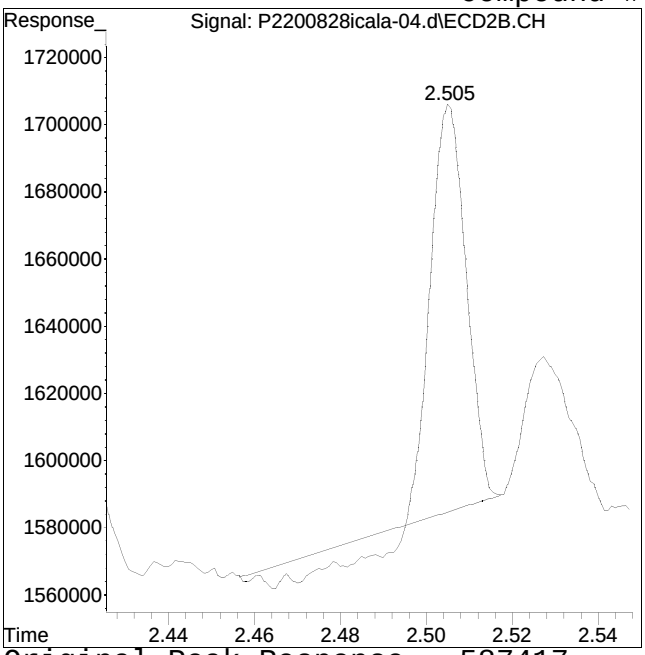
Manual Peak Response = 2979102 M4

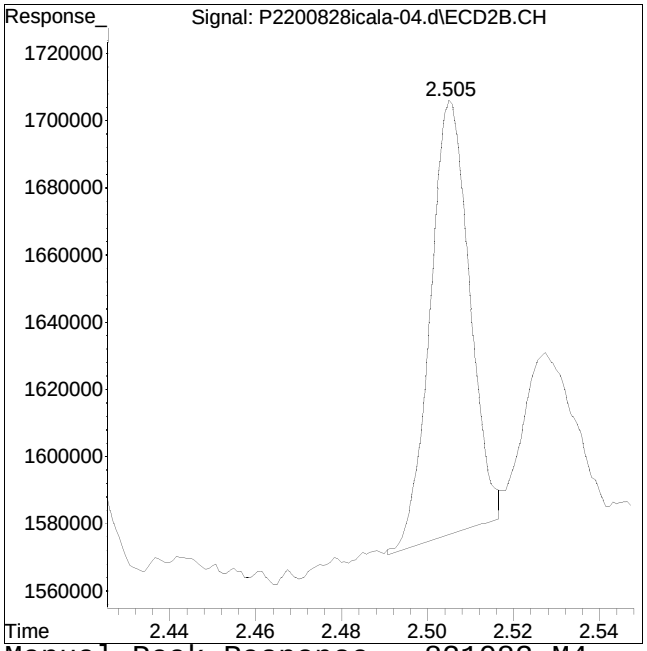
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-04.d Operator : pest2:kb
Date Inj'd : 8/28/2020 9:17 pm Instrument : PEST 2
Sample : il11660,42e,,9810 Quant Date : 9/15/2020 11:35 am

Compound #59: 1016-5 #2





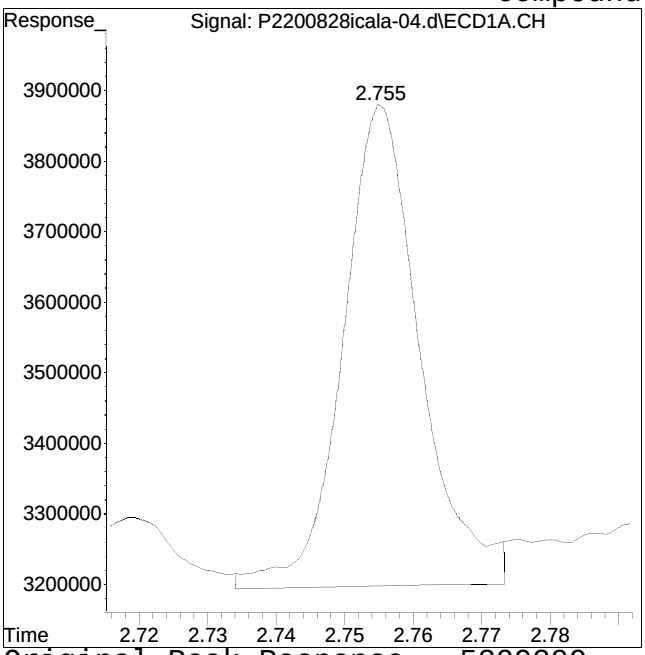
Original Peak Response = 587417 Manual Peak Response = 821083 M4
M4 = Poor automated baseline construction.

Manual Integration Report

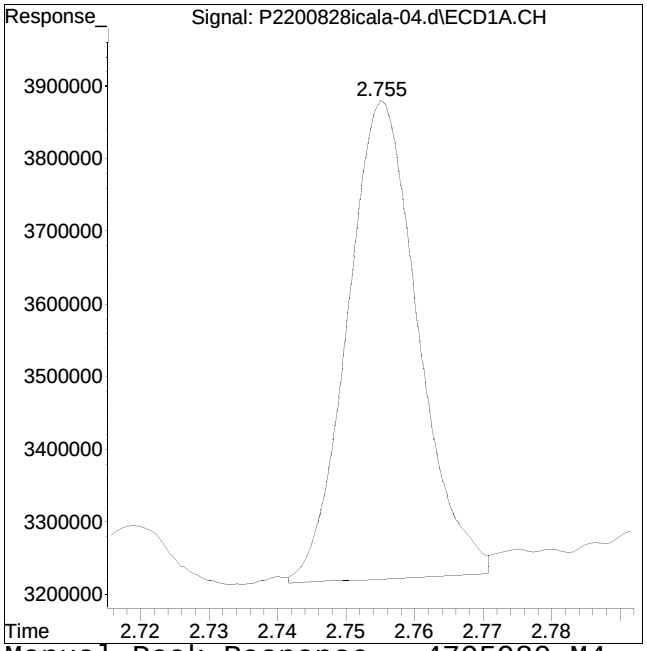
Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-04.d
Date Inj'd : 8/28/2020 9:17 pm
Sample : il11660,42e,,9810

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:kb
Instrument : PEST 2
Quant Date : 9/15/2020 11:35 am

Compound #9: 1260-1



Original Peak Response = 5299299



Manual Peak Response = 4705980 M4

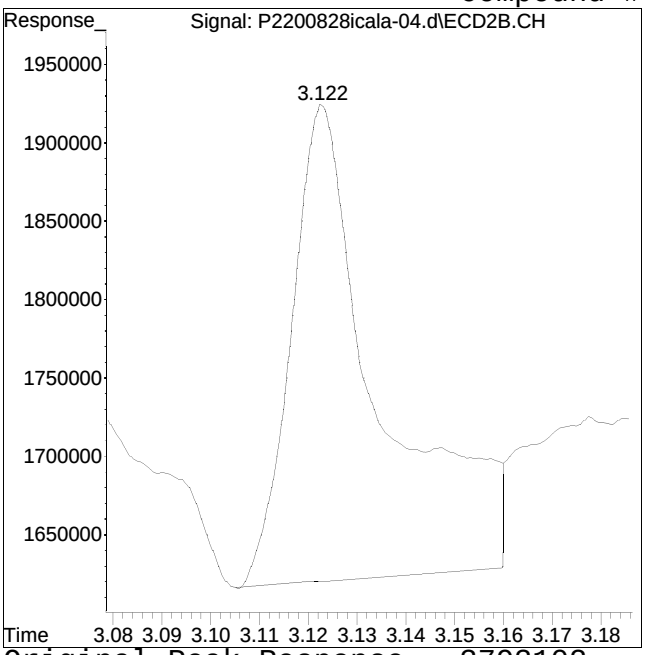
M4 = Poor automated baseline construction.

Manual Integration Report

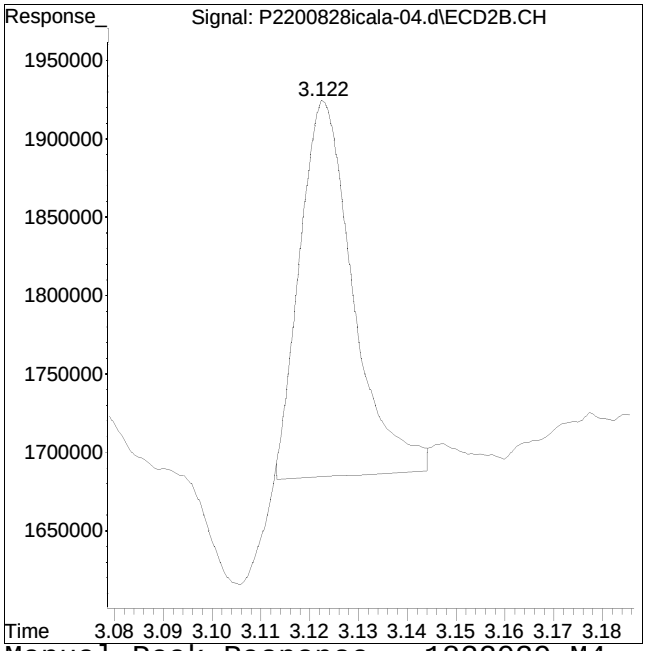
Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-04.d
Date Inj'd : 8/28/2020 9:17 pm
Sample : il11660,42e,,9810

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:kb
Instrument : PEST 2
Quant Date : 9/15/2020 11:35 am

Compound #60: 1260-1 #2



Original Peak Response = 3793102



Manual Peak Response = 1822039 M4

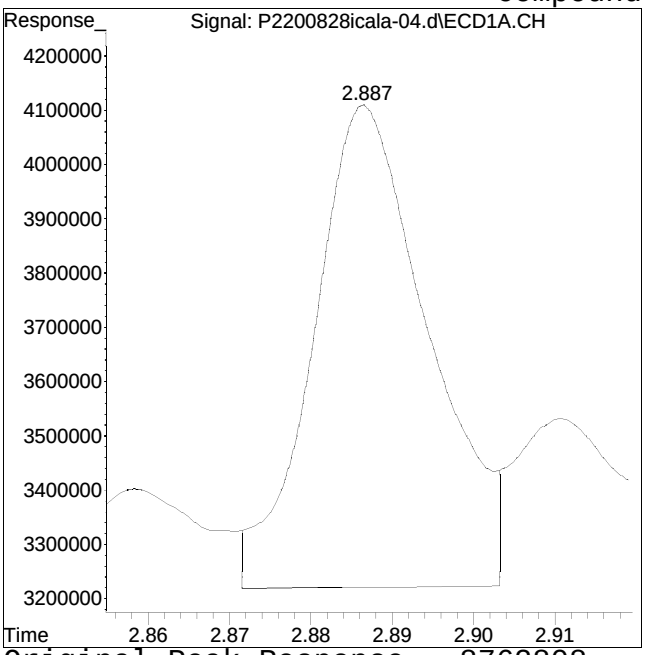
M4 = Poor automated baseline construction.

Manual Integration Report

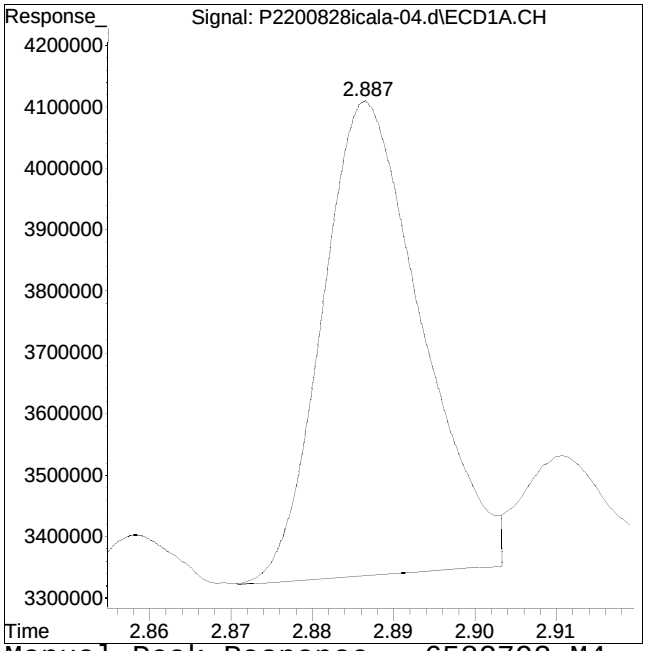
Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-04.d
Date Inj'd : 8/28/2020 9:17 pm
Sample : il11660,42e,,9810

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:kb
Instrument : PEST 2
Quant Date : 9/15/2020 11:35 am

Compound #10: 1260-2



Original Peak Response = 8762808



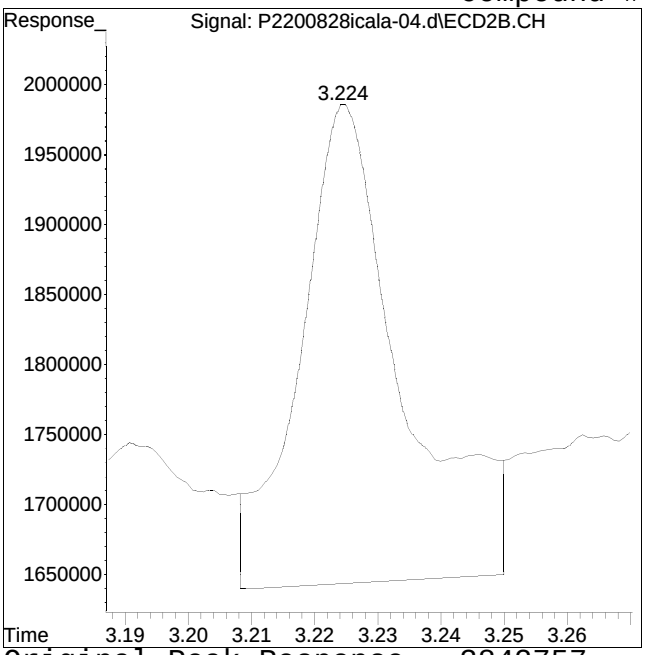
Manual Peak Response = 6582792 M4

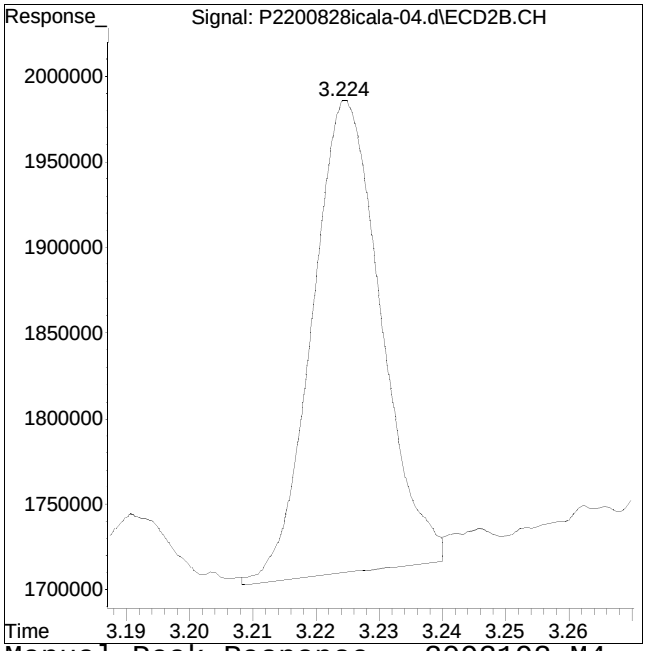
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-04.d Operator : pest2:kb
Date Inj'd : 8/28/2020 9:17 pm Instrument : PEST 2
Sample : il11660,42e,,9810 Quant Date : 9/15/2020 11:35 am

Compound #61: 1260-2 #2



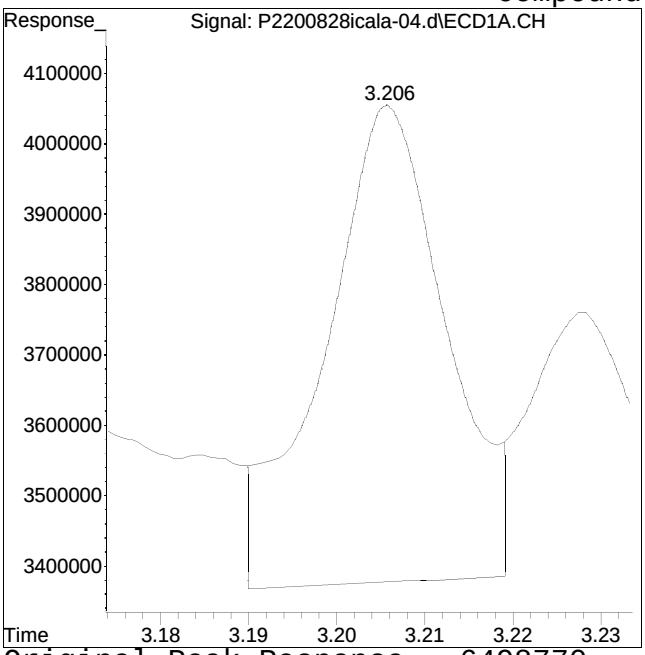


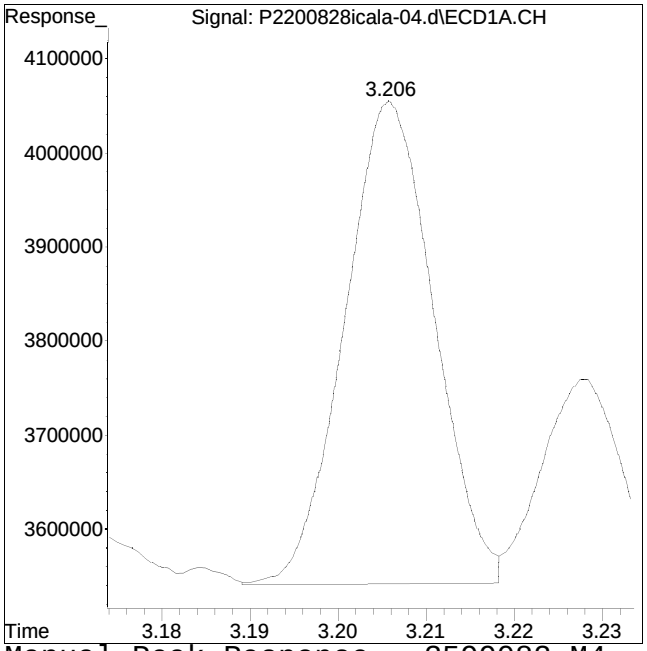
Original Peak Response = 3842757 Manual Peak Response = 2093192 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-04.d Operator : pest2:kb
Date Inj'd : 8/28/2020 9:17 pm Instrument : PEST 2
Sample : il11660,42e,,9810 Quant Date : 9/15/2020 11:35 am

Compound #11: 1260-3





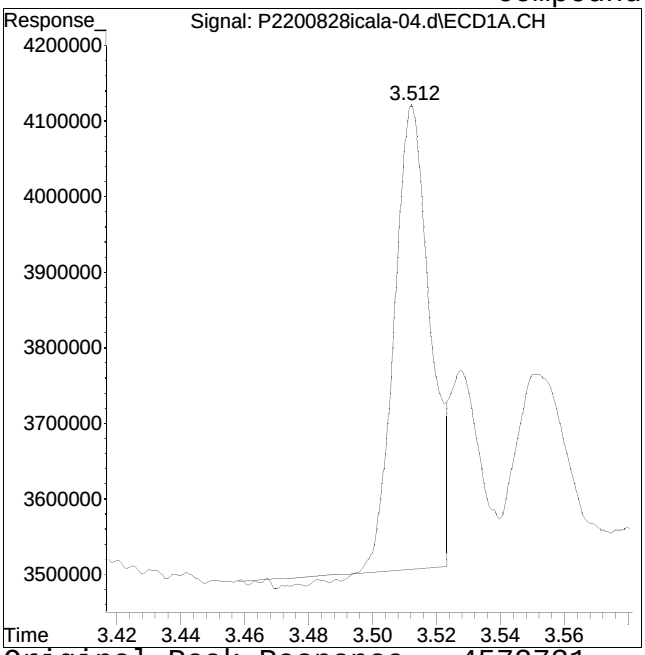
Original Peak Response = 6498770 Manual Peak Response = 3599082 M4
M4 = Poor automated baseline construction.

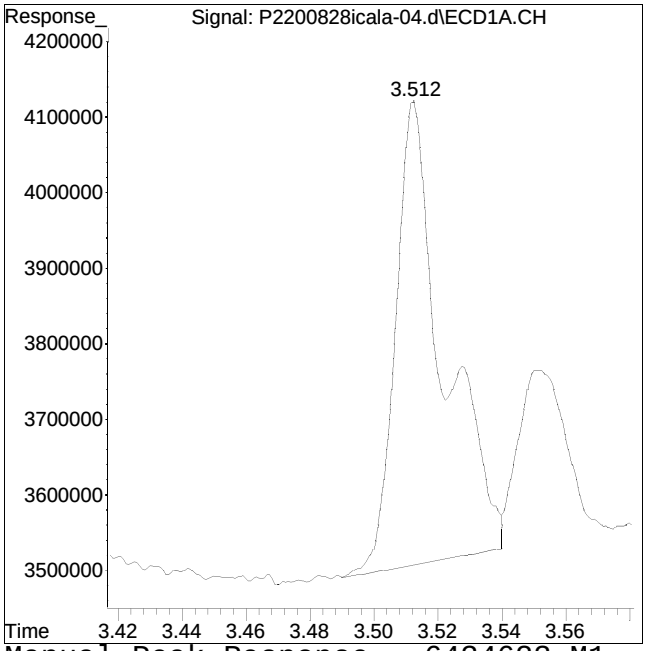
Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-04.d
Date Inj'd : 8/28/2020 9:17 pm
Sample : il11660,42e,,9810

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:kb
Instrument : PEST 2
Quant Date : 9/15/2020 11:35 am

Compound #13: 1260-5



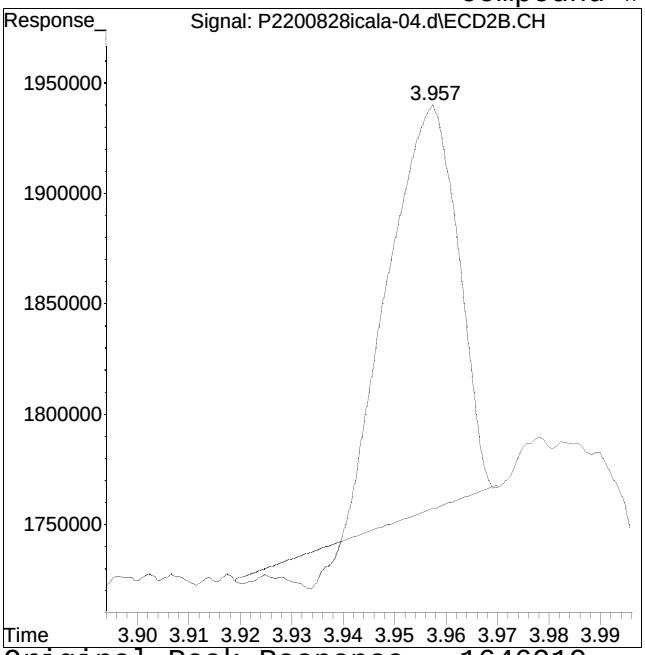


Original Peak Response = 4572731 Manual Peak Response = 6434623 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

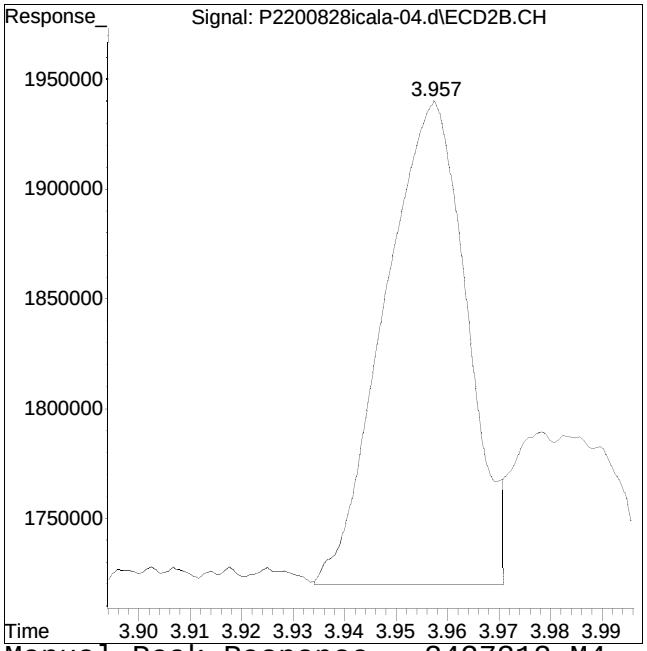
Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-04.d Operator : pest2:kb
Date Inj'd : 8/28/2020 9:17 pm Instrument : PEST 2
Sample : il11660,42e,,9810 Quant Date : 9/15/2020 11:35 am

Compound #64: 1260-5 #2



Original Peak Response = 1646919



Manual Peak Response = 2427312 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 9:24 pm
Operator : pest2:kb
Sample : il21660,42e,,9810
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:50:59 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:33:39 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.208	1.263	150.0E6	52697506	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.498	1.645	24014947	8984498	2.917	3.207
Spiked Amount	20.000	Range 30 - 150		Recovery =		14.58%#	16.04%#
3) s	Decachlorobi	4.099	4.615	41140505	13933755	6.419	6.890
Spiked Amount	20.000	Range 30 - 150		Recovery =		32.09%	34.45%
	Target Compounds						
4) l1	1016-1	1.639	1.851	7157917	2797016	48.144	54.684
5) l1	1016-2	1.783	2.025	15881931	5765057	50.991	51.575
6) l1	1016-3	1.974	2.229	31476392	11497494	49.041	53.393
7) l1	1016-4	2.030	2.291	13386401	4782947	51.855	55.859
8) l1	1016-5	2.203	2.505	14861524	3824940	55.848	55.333
Sum	1016-1			82764164	28667455	255.880	270.844
Average	1016-1					51.176	54.169
9) l2	1260-1	2.754	3.122	21806006	7621481	52.693	54.765M4
10) l2	1260-2	2.886	3.225	33031892	8768261	52.773	54.023
11) l2	1260-3	3.205	3.623	21427028	7178598	53.027	53.086
12) l2	1260-4	3.361	3.752	45628449	14528878	52.653M1	52.287
13) l2	1260-5	3.511	3.957	29822972	10284003	49.228	53.132
Sum	1260-1			151.7E6	48381222	NoCal	NoCal D
Average	1260-1					52.075	53.459
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 9:24 pm
Operator : pest2:kb
Sample : il21660,42e,,9810
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:50:59 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:33:39 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 9:24 pm
Operator : pest2:kb
Sample : il21660,42e,,9810
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:50:59 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:33:39 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

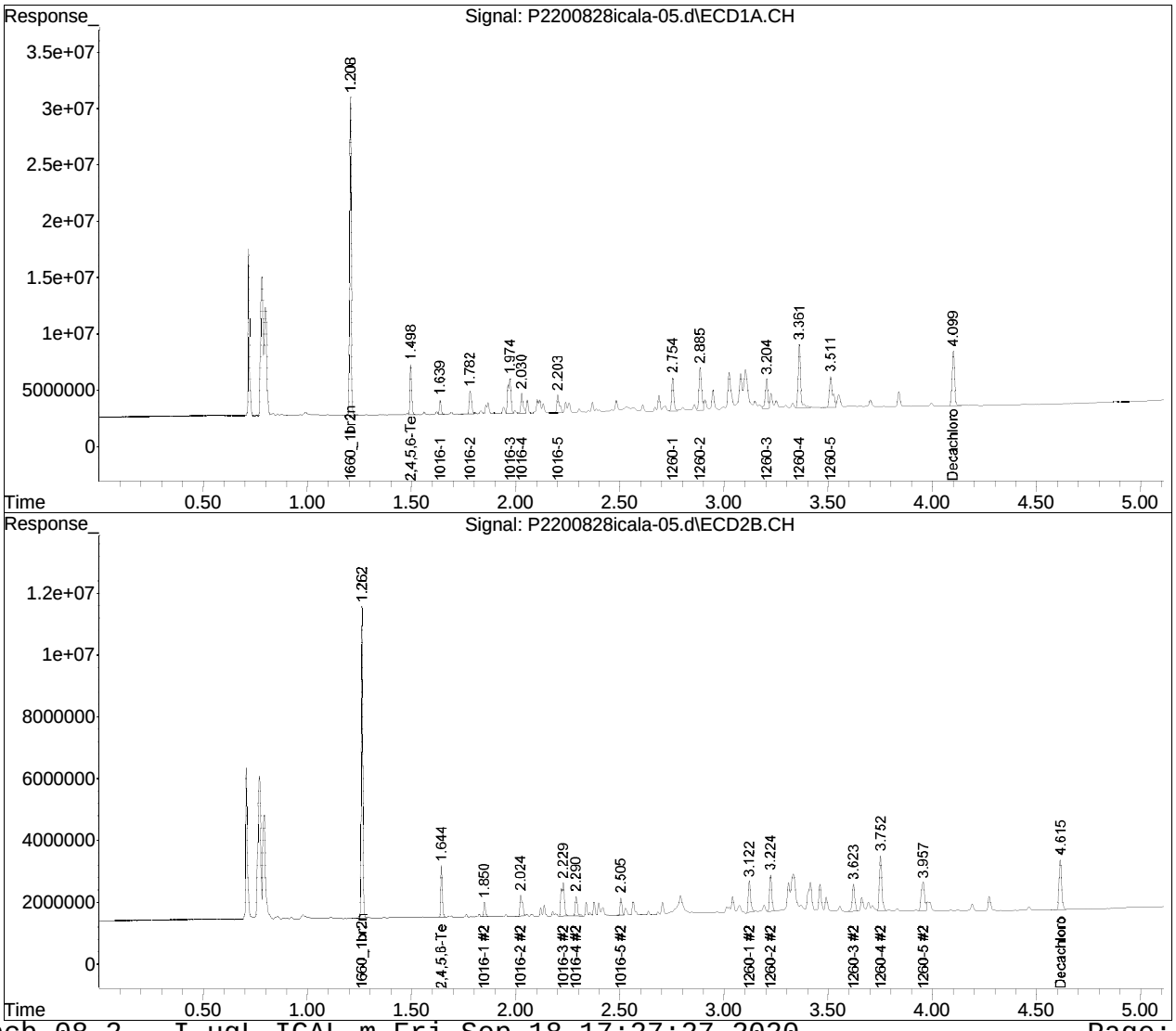
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 9:24 pm
Operator : pest2:kb
Sample : il21660,42e,,9810
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:50:59 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:33:39 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

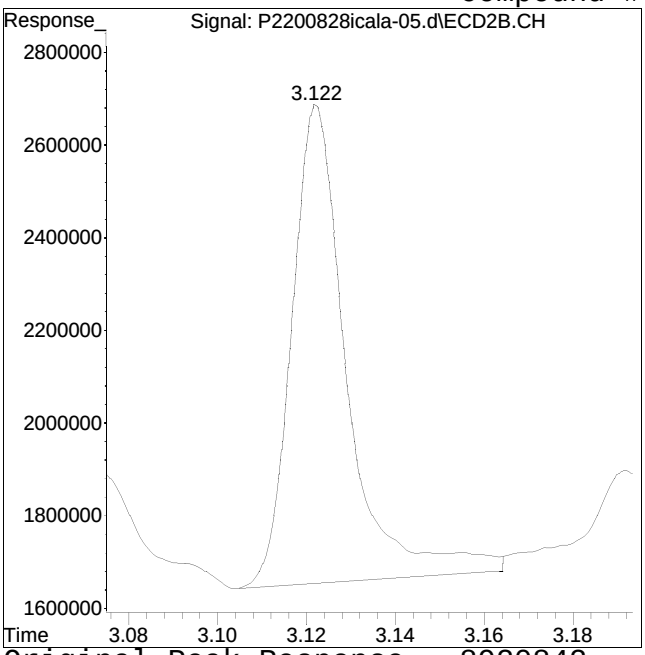
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

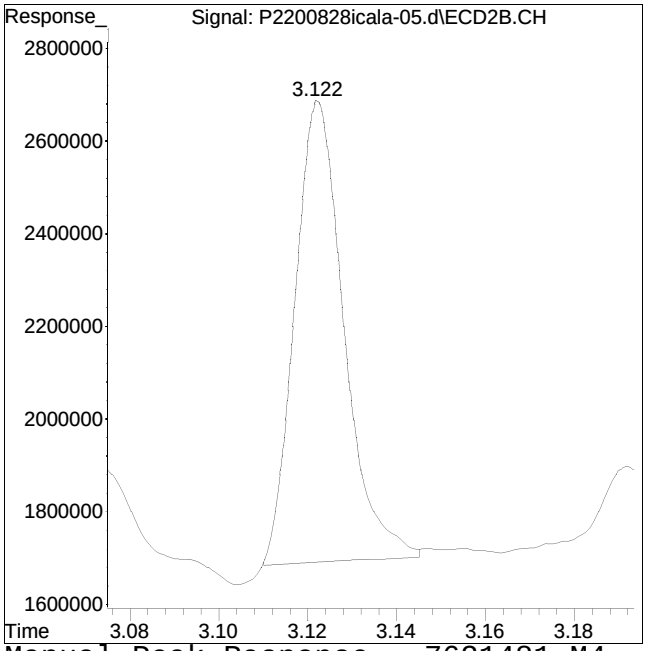


Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-05.d Operator : pest2:kb
Date Inj'd : 8/28/2020 9:24 pm Instrument : PEST 2
Sample : il21660,42e,,9810 Quant Date : 9/15/2020 11:33 am

Compound #60: 1260-1 #2





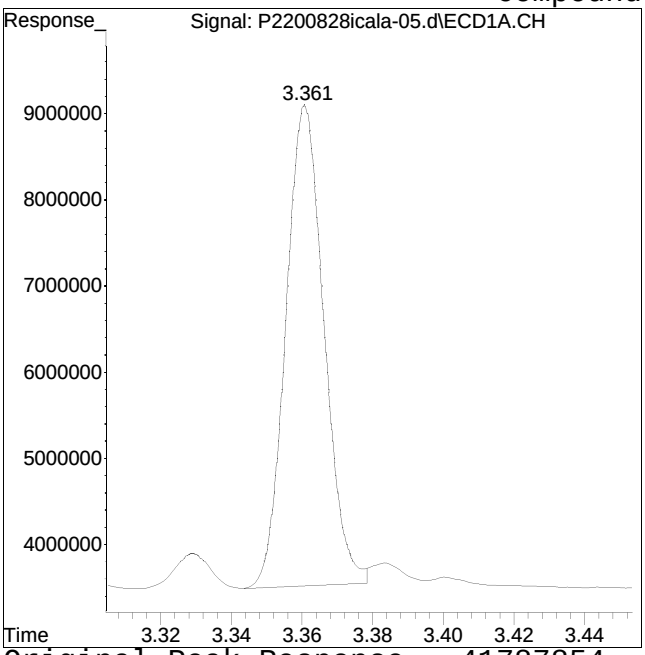
Original Peak Response = 8920842 Manual Peak Response = 7621481 M4
M4 = Poor automated baseline construction.

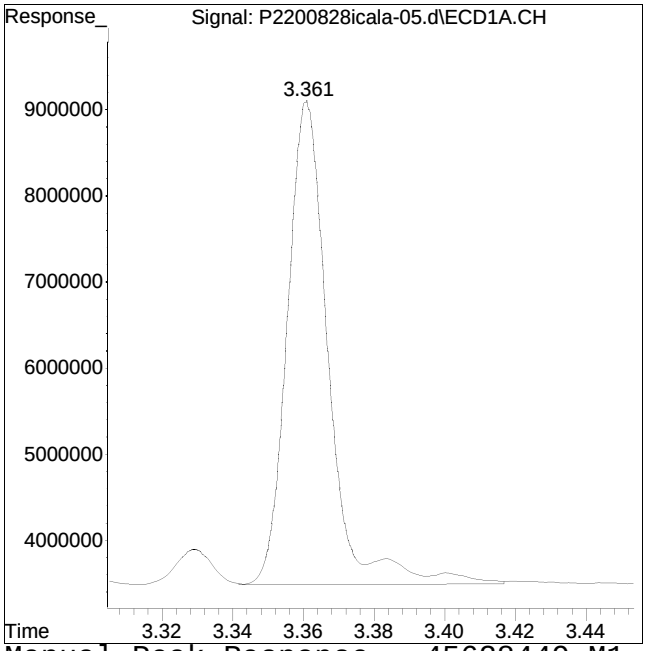
Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-05.d
Date Inj'd : 8/28/2020 9:24 pm
Sample : il21660,42e,,9810

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:kb
Instrument : PEST 2
Quant Date : 9/15/2020 11:33 am

Compound #12: 1260-4





Original Peak Response = 41787854 Manual Peak Response = 45628449 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 9:32 pm
Operator : pest2:kb
Sample : il31660,42e,,9810
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:52:09 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:32:20 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.209	1.263	146.9E6	51671792	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.499	1.645	50686283	17738120	6.253	6.477
Spiked Amount	20.000	Range 30 - 150		Recovery =		31.26%	32.39%
3) s	Decachlorobi	4.100	4.615	82933732	27532736	13.362	14.287
Spiked Amount	20.000	Range 30 - 150		Recovery =		66.81%	71.44%
	Target Compounds						
4) l1	1016-1	1.639	1.851	14348748	5434130	103.845M3	111.453
5) l1	1016-2	1.784	2.025	31727564	11977223	105.470	112.764
6) l1	1016-3	1.974	2.229	62221033	22552967	100.776M3	109.293
7) l1	1016-4	2.031	2.291	25898044	9289423	103.319	114.711
8) l1	1016-5	2.204	2.505	26851155	7287259	104.129	110.275
Sum	1016-1			161.0E6	56541002	517.540	558.498
Average	1016-1					103.508	111.700
9) l2	1260-1	2.755	3.123	43716353	14904378	110.820	112.347M4
10) l2	1260-2	2.885	3.224	65013122	17283106	108.292M3	111.880M4
11) l2	1260-3	3.205	3.623	42564192	14341751	110.385	111.188
12) l2	1260-4	3.361	3.753	94530807	29234615	112.792M1	109.976
13) l2	1260-5	3.512	3.957	60692421	20443272	103.129	110.561
Sum	1260-1			306.5E6	96207122	NoCal	NoCal D
Average	1260-1					109.084	111.190
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 9:32 pm
Operator : pest2:kb
Sample : il31660,42e,,9810
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:52:09 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:32:20 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 9:32 pm
Operator : pest2:kb
Sample : il31660,42e,,9810
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:52:09 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:32:20 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

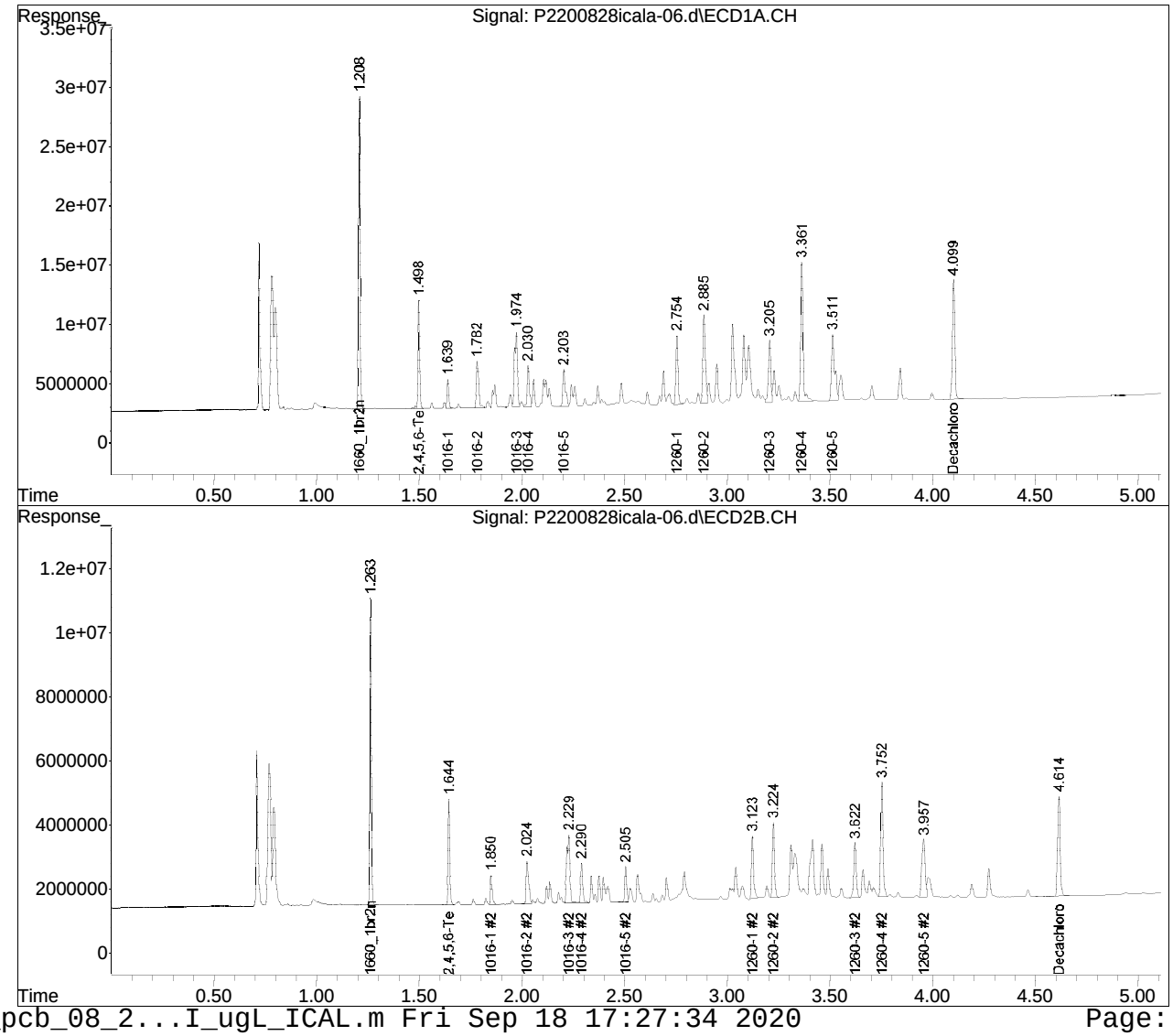
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 9:32 pm
Operator : pest2:kb
Sample : il31660,42e,,9810
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:52:09 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:32:20 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

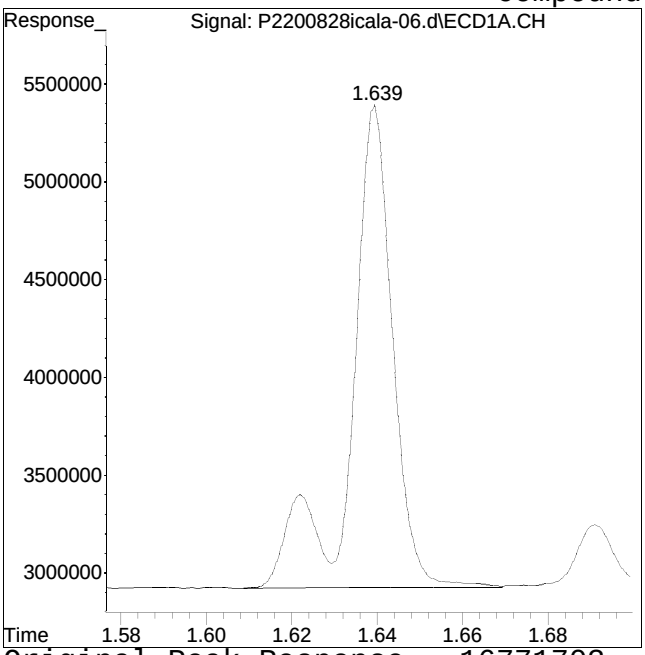
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

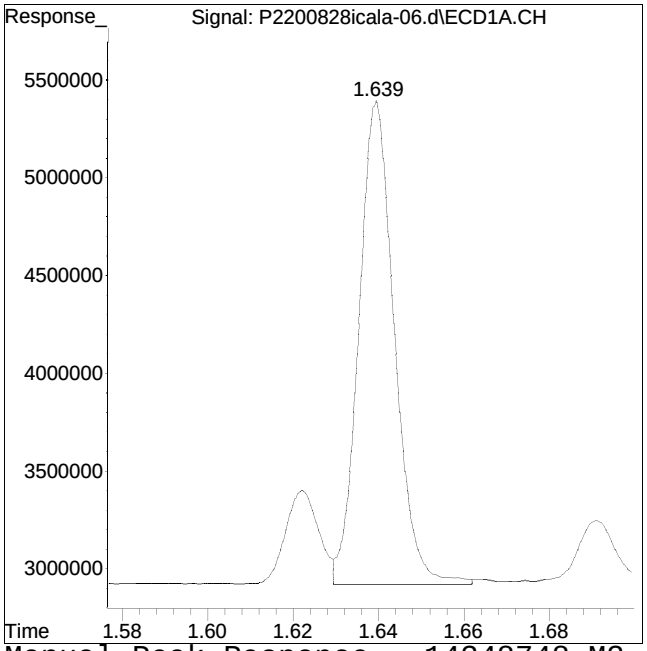


Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-06.d Operator : pest2:kb
Date Inj'd : 8/28/2020 9:32 pm Instrument : PEST 2
Sample : il31660,42e,,9810 Quant Date : 9/15/2020 11:32 am

Compound #4: 1016-1



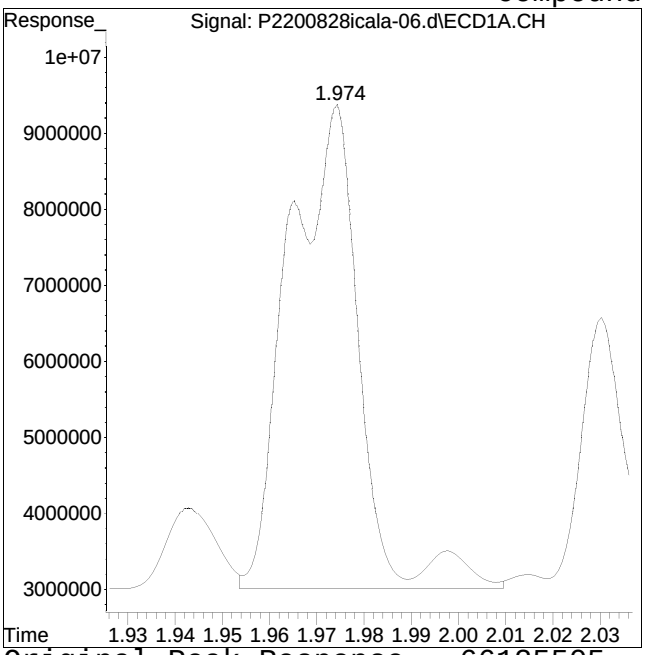


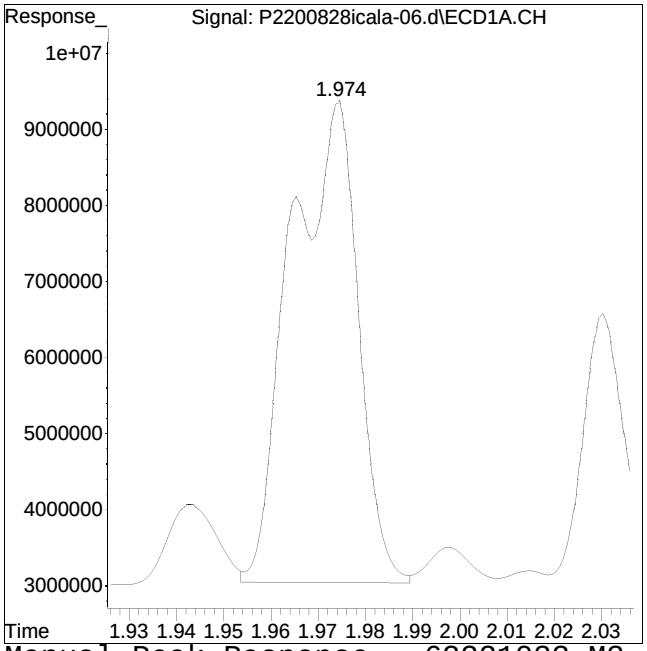
Original Peak Response = 16771703 Manual Peak Response = 14348748 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-06.d Operator : pest2:kb
Date Inj'd : 8/28/2020 9:32 pm Instrument : PEST 2
Sample : il31660,42e,,9810 Quant Date : 9/15/2020 11:32 am

Compound #6: 1016-3





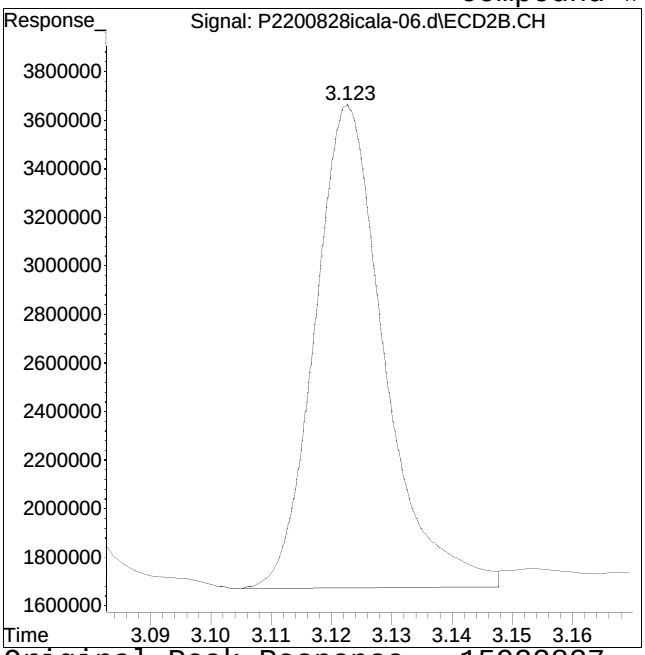
Original Peak Response = 66125505 Manual Peak Response = 62221033 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

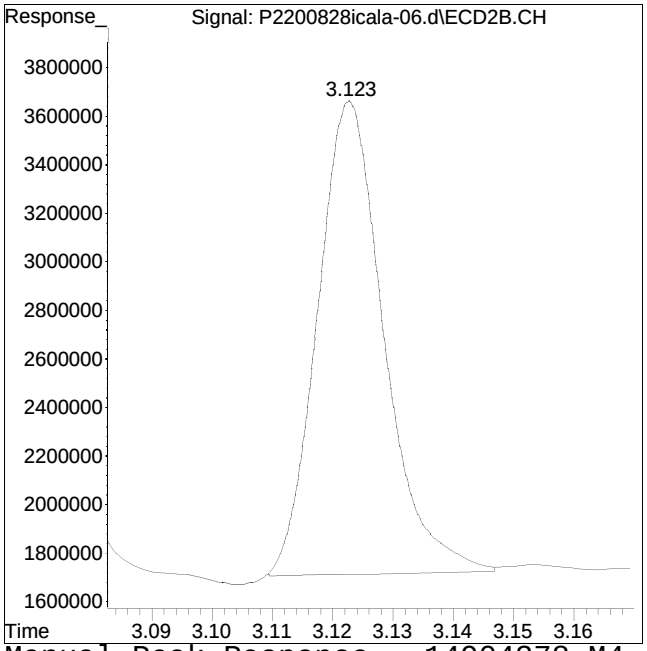
Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-06.d
Date Inj'd : 8/28/2020 9:32 pm
Sample : il31660,42e,,9810

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:kb
Instrument : PEST 2
Quant Date : 9/15/2020 11:32 am

Compound #60: 1260-1 #2



Original Peak Response = 15922837



Manual Peak Response = 14904378 M4

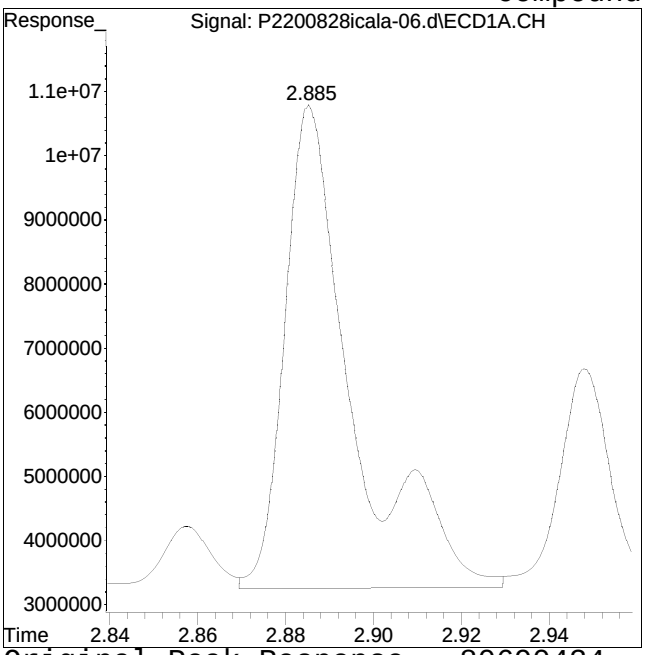
M4 = Poor automated baseline construction.

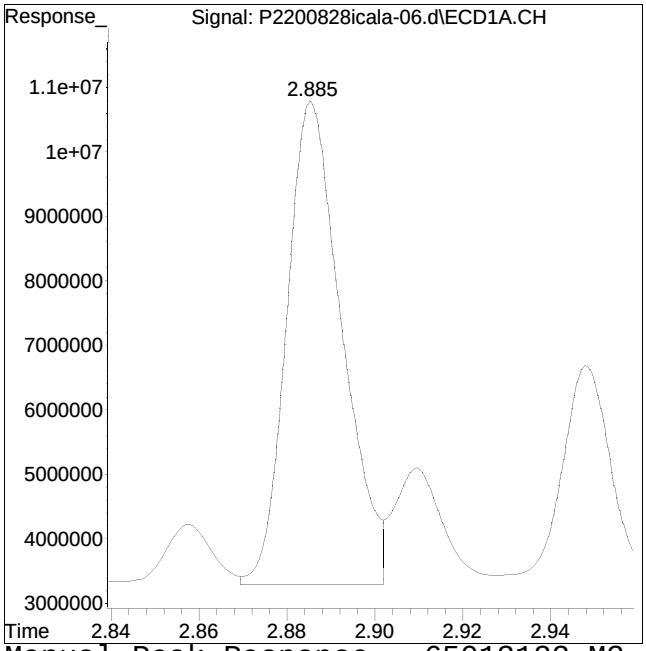
Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-06.d
Date Inj'd : 8/28/2020 9:32 pm
Sample : il31660,42e,,9810

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:kb
Instrument : PEST 2
Quant Date : 9/15/2020 11:32 am

Compound #10: 1260-2





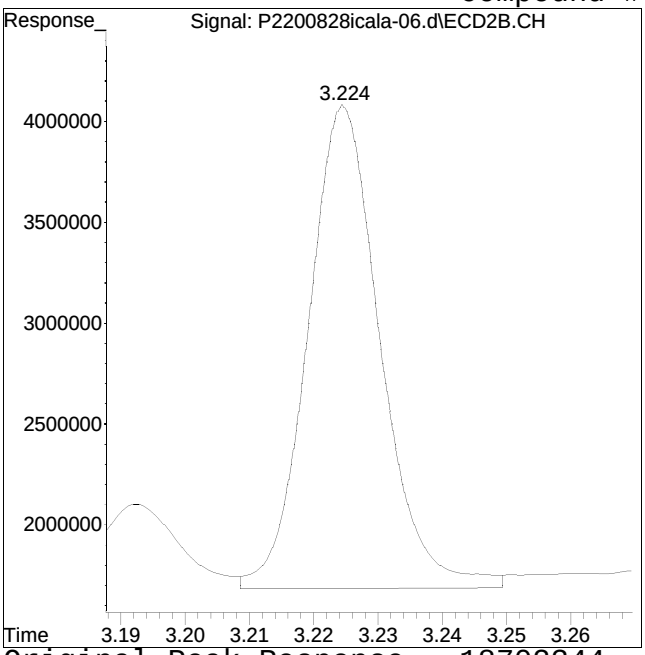
Original Peak Response = 80690434 Manual Peak Response = 65013122 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

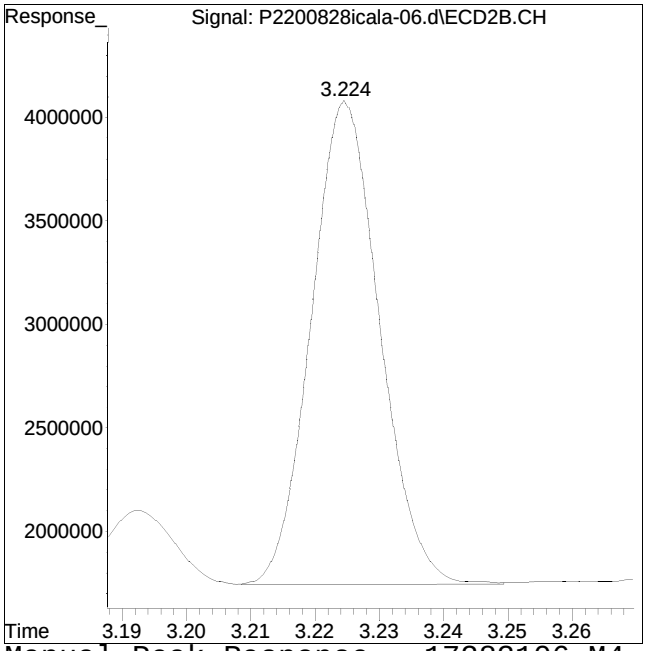
Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-06.d Operator : pest2:kb
Date Inj'd : 8/28/2020 9:32 pm Instrument : PEST 2
Sample : il31660,42e,,9810 Quant Date : 9/15/2020 11:32 am

Compound #61: 1260-2 #2



Original Peak Response = 18702344



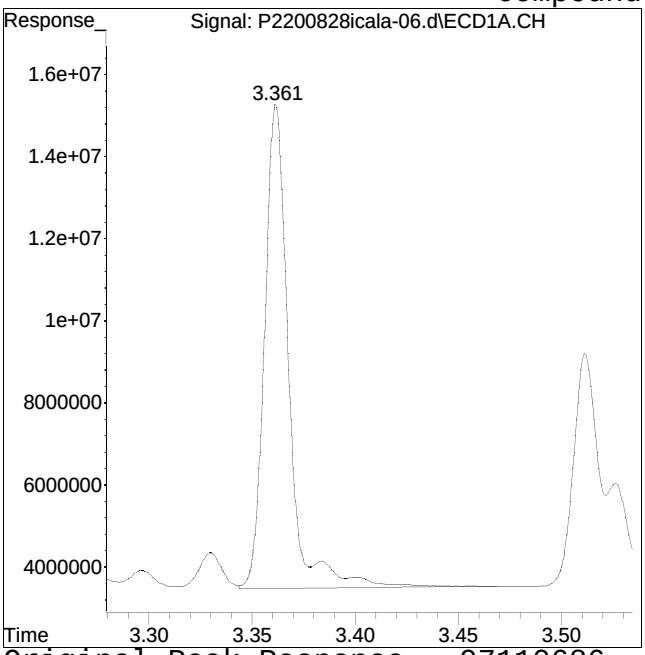
Manual Peak Response = 17283106 M4

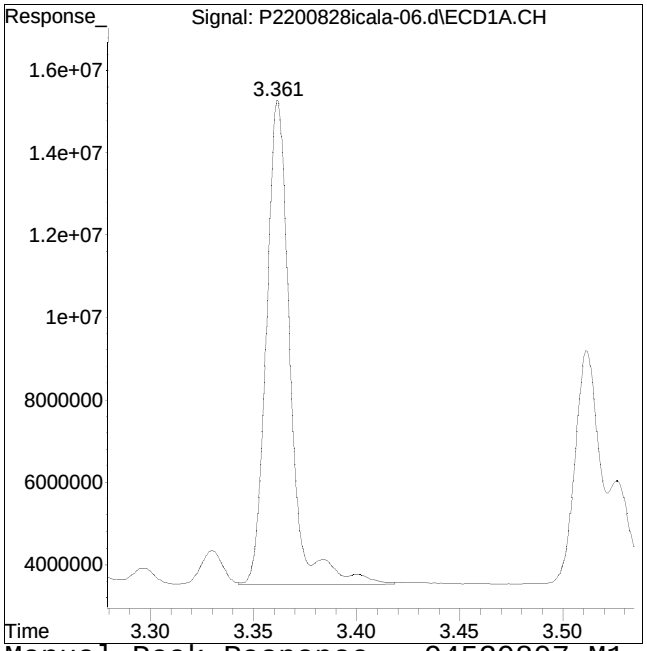
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-06.d Operator : pest2:kb
Date Inj'd : 8/28/2020 9:32 pm Instrument : PEST 2
Sample : il31660,42e,,9810 Quant Date : 9/15/2020 11:32 am

Compound #12: 1260-4





Original Peak Response = 97110686 Manual Peak Response = 94530807 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 9:39 pm
Operator : pest2:kb
Sample : il41660,42e,,9810
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 17:09:50 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri Sep 18 17:09:37 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.210	1.264	144.9E6	50855980	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.500	1.645	128.6E6	44294718	16.365	16.045
Spiked Amount	20.000	Range 30 - 150		Recovery =		81.82%	80.23%
3) s	Decachlorobi	4.100	4.616	206.5E6	65420512	32.677	31.104
Spiked Amount	20.000	Range 30 - 150		Recovery =		163.38%#	155.52%#
	Target Compounds						
4) l1	1016-1	1.640	1.850	35007033	12752181	254.560	239.148
5) l1	1016-2	1.784	2.025	78383657	27941579	251.984	249.054
6) l1	1016-3	1.975	2.229	159.2E6	54449541	257.275	248.429
7) l1	1016-4	2.031	2.291	64920416	21193936	258.237	241.058
8) l1	1016-5	2.204	2.505	67446081	17494728	250.894	249.005
Sum	1016-1			405.0E6	133.8E6	1272.949	1226.694
Average	1016-1					254.590	245.339
9) l2	1260-1	2.755	3.123	104.8E6	35989081	252.462	249.638
10) l2	1260-2	2.886	3.225	159.8E6	41078263	258.198	246.061
11) l2	1260-3	3.206	3.623	102.1E6	34425676	262.309	250.437
12) l2	1260-4	3.362	3.753	235.4E6	71211023	262.551M1	252.234
13) l2	1260-5	3.512	3.958	153.9E6	49467070	259.422M1	250.514
Sum	1260-1			756.0E6	232.2E6	N.D.	N.D. D
Average	1260-1					258.988	249.777
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 9:39 pm
Operator : pest2:kb
Sample : il41660,42e,,9810
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 17:09:50 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri Sep 18 17:09:37 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 9:39 pm
Operator : pest2:kb
Sample : il41660,42e,,9810
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 17:09:50 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri Sep 18 17:09:37 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

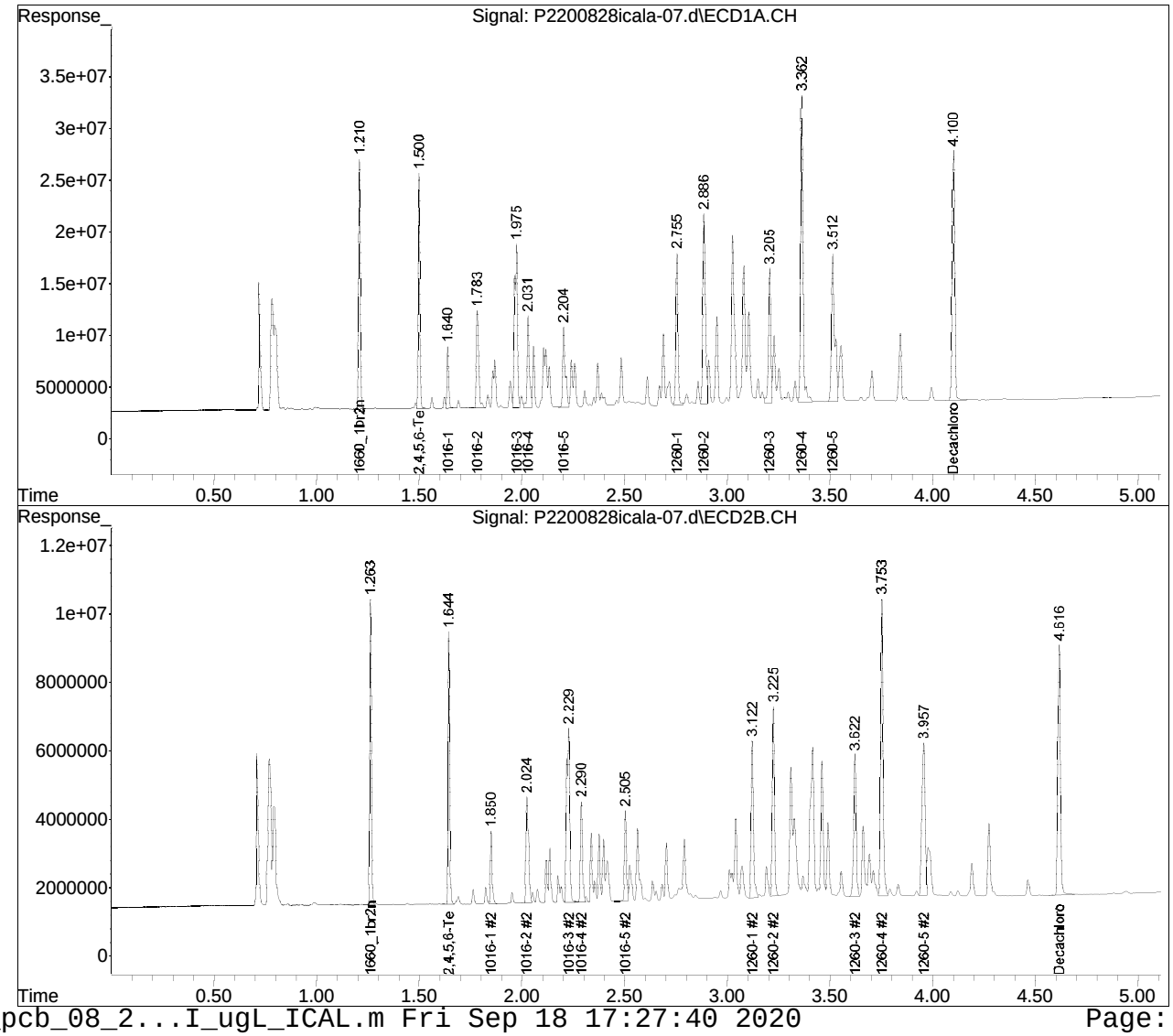
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 9:39 pm
Operator : pest2:kb
Sample : il41660,42e,,9810
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 17:09:50 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri Sep 18 17:09:37 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

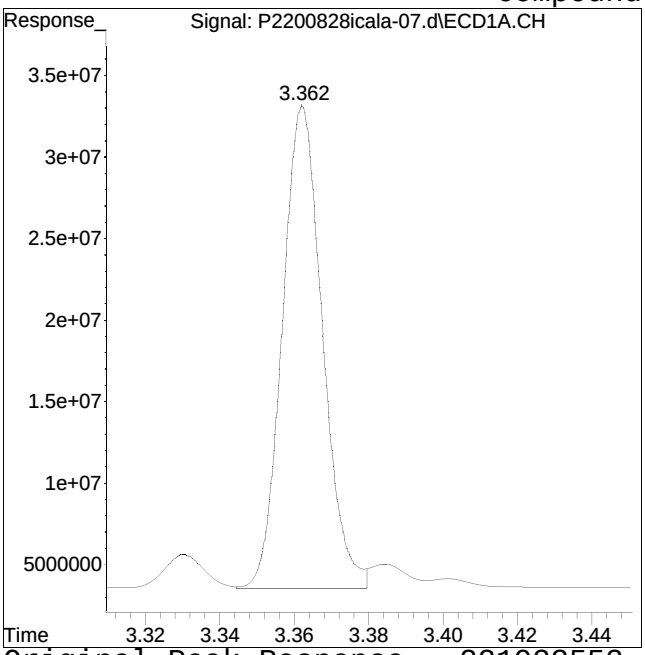
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

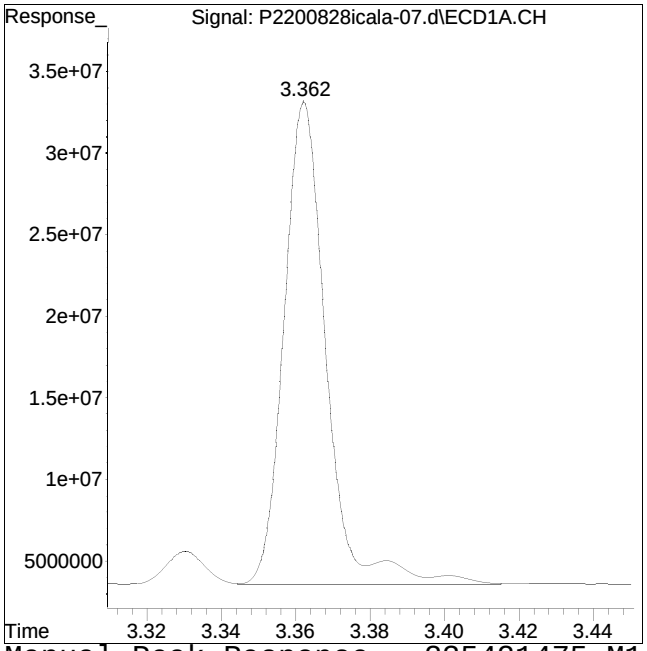


Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-07.d Operator : pest2:kb
Date Inj'd : 8/28/2020 9:39 pm Instrument : PEST 2
Sample : il41660,42e,,9810 Quant Date : 9/18/2020 5:09 pm

Compound #12: 1260-4



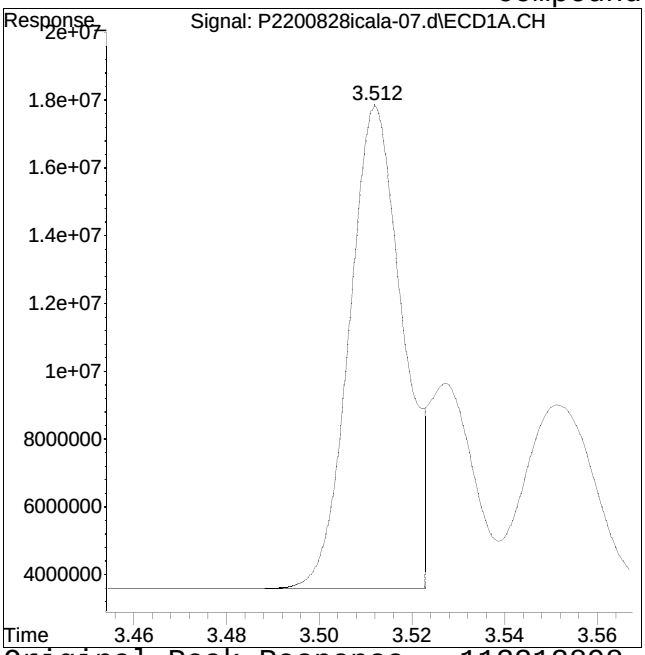


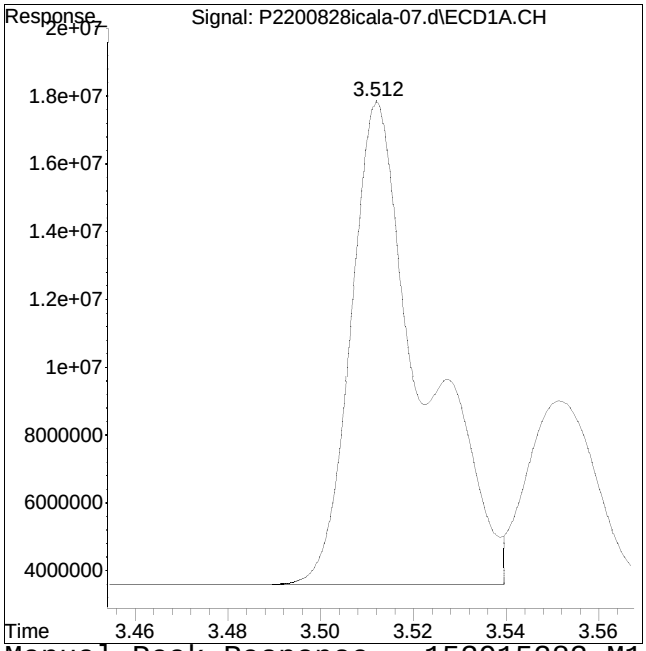
Original Peak Response = 221923552 Manual Peak Response = 235421475 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-07.d Operator : pest2:kb
Date Inj'd : 8/28/2020 9:39 pm Instrument : PEST 2
Sample : il41660,42e,,9810 Quant Date : 9/18/2020 5:09 pm

Compound #13: 1260-5





Original Peak Response = 113312898 Manual Peak Response = 153915283 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 9:47 pm
Operator : pest2:kb
Sample : il51660,42e,,9810
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:53:27 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:26:52 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.210	1.264	147.3E6	51797921	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.500	1.645	264.2E6	88780455	32.349	31.486
Spiked Amount	20.000	Range 30 - 150		Recovery =		161.74%#	157.43%#
3) s	Decachlorobi	4.100	4.615	394.6E6	121.4E6	60.155	58.316
Spiked Amount	20.000	Range 30 - 150		Recovery =		300.78%#	291.58%#
	Target Compounds						
4) l1	1016-1	1.640	1.850	70117583	24626259	492.655	474.006
5) l1	1016-2	1.784	2.025	149.5E6	53940777	468.983	473.845
6) l1	1016-3	1.975	2.229	319.4E6	106.0E6	493.403	477.952
7) l1	1016-4	2.031	2.291	129.2E6	40982328	489.456	474.629
8) l1	1016-5	2.204	2.505	133.6E6	34167486	487.394	479.375
Sum	1016-1			801.8E6	259.7E6	2431.891	2379.807
Average	1016-1					486.378	475.961
9) l2	1260-1	2.754	3.122	204.0E6	68264243	478.941	465.578
10) l2	1260-2	2.886	3.225	310.9E6	80360532	478.475	480.176
11) l2	1260-3	3.205	3.623	197.9E6	66505911	476.890	474.185
12) l2	1260-4	3.362	3.753	464.5E6	136.7E6	514.837M1	471.076
13) l2	1260-5	3.512	3.958	302.7E6	94702551	483.686	469.911
Sum	1260-1			1480.1E6	446.5E6	NoCal	NoCal D
Average	1260-1					486.566	472.185
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 9:47 pm
Operator : pest2:kb
Sample : il51660,42e,,9810
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:53:27 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:26:52 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 9:47 pm
Operator : pest2:kb
Sample : il51660,42e,,9810
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:53:27 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:26:52 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

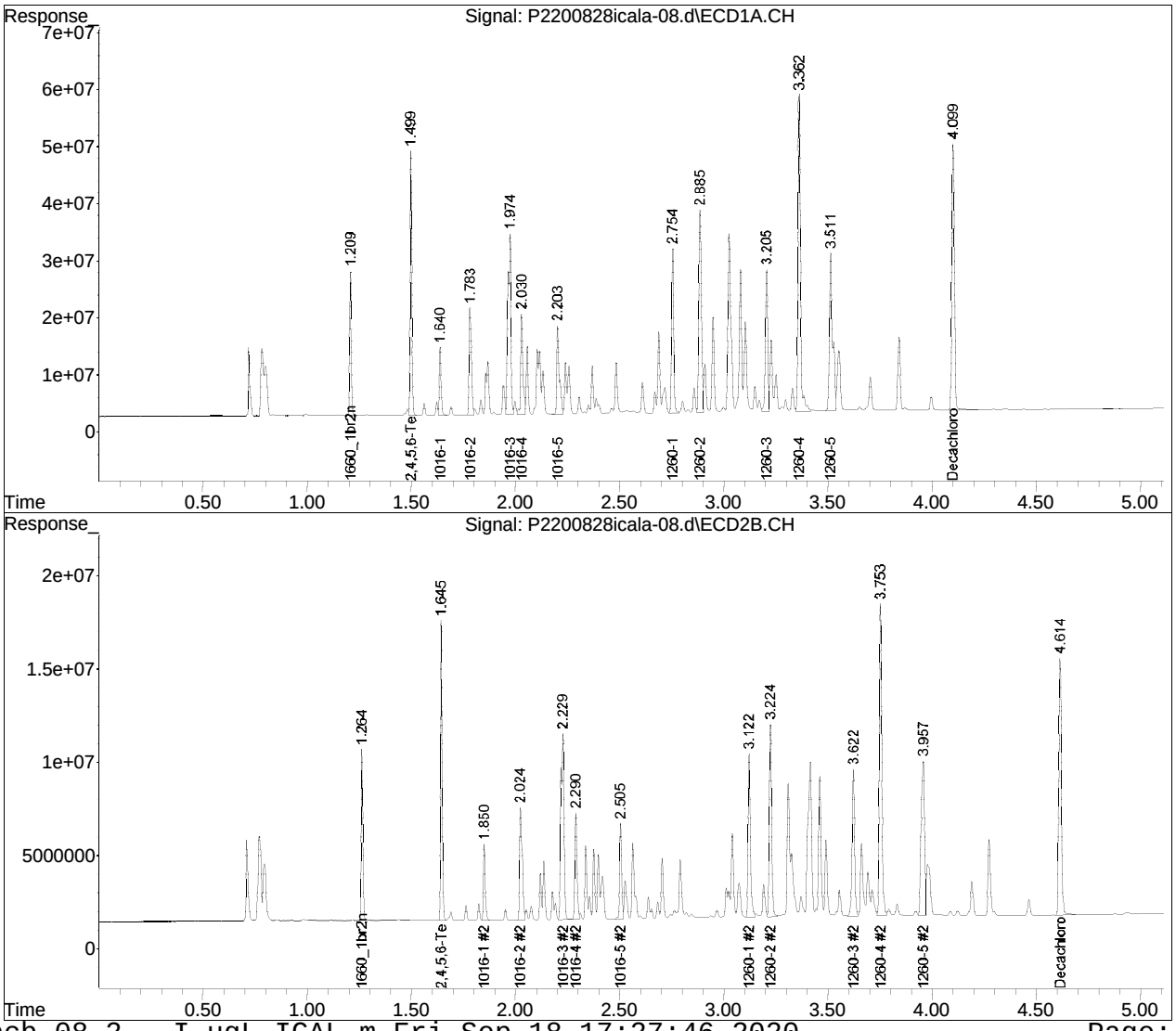
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 9:47 pm
Operator : pest2:kb
Sample : il51660,42e,,9810
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:53:27 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:26:52 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

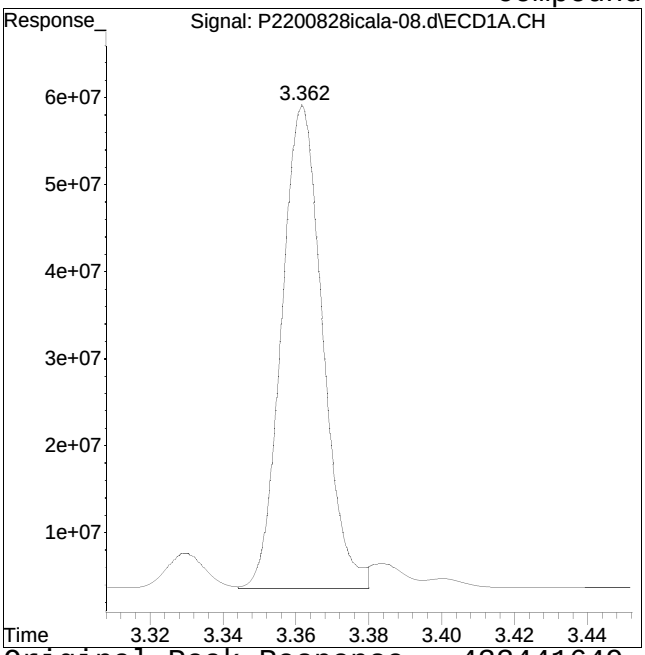
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

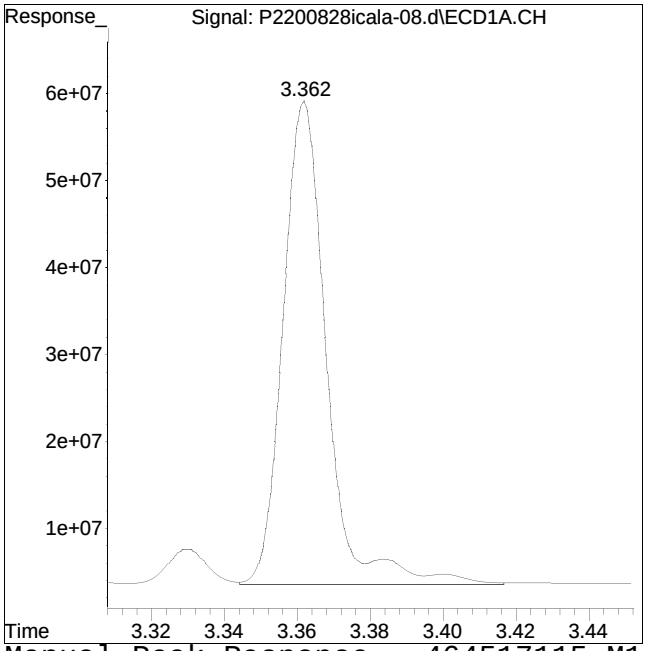


Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-08.d Operator : pest2:kb
Date Inj'd : 8/28/2020 9:47 pm Instrument : PEST 2
Sample : il51660,42e,,9810 Quant Date : 9/15/2020 11:26 am

Compound #12: 1260-4





Original Peak Response = 433441649 Manual Peak Response = 464517115 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 9:55 pm
Operator : pest2:kb
Sample : il61660,42e,,9810
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:54:09 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:30:54 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.211	1.265	140.3E6	49468643	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.500	1.646	485.2E6	161.5E6	62.057	60.447
Spiked Amount	20.000	Range 30 - 150		Recovery =		310.29%#	302.24%#
3) s	Decachlorobi	4.100	4.615	724.9E6	222.0E6	119.647	116.803
Spiked Amount	20.000	Range 30 - 150		Recovery =		598.24%#	584.01%#
	Target Compounds						
4) l1	1016-1	1.641	1.851	126.8E6	43379417	942.357	897.614
5) l1	1016-2	1.785	2.025	273.7E6	93311837	930.813	881.349
6) l1	1016-3	1.975	2.230	544.1E6	178.3E6	888.745	860.537
7) l1	1016-4	2.031	2.291	220.7E6	71841924	887.551	893.879
8) l1	1016-5	2.204	2.506	223.1E6	56462339	865.258	846.944
Sum	1016-1			1388.4E6	443.3E6	4514.725	4380.324
Average	1016-1					902.945	876.065
9) l2	1260-1	2.755	3.124	335.8E6	110.6E6	845.610	818.012
10) l2	1260-2	2.886	3.226	508.9E6	130.4E6	840.542	832.060
11) l2	1260-3	3.206	3.623	332.5E6	109.5E6	861.486	839.034
12) l2	1260-4	3.362	3.753	765.3E6	225.4E6	908.622M1	837.593
13) l2	1260-5	3.512	3.959	513.6E6	157.7E6	876.324M1	844.796
Sum	1260-1			2456.1E6	733.5E6	NoCal	NoCal D
Average	1260-1					866.517	834.299
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 9:55 pm
Operator : pest2:kb
Sample : il61660,42e,,9810
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:54:09 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:30:54 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 9:55 pm
Operator : pest2:kb
Sample : il61660,42e,,9810
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:54:09 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:30:54 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

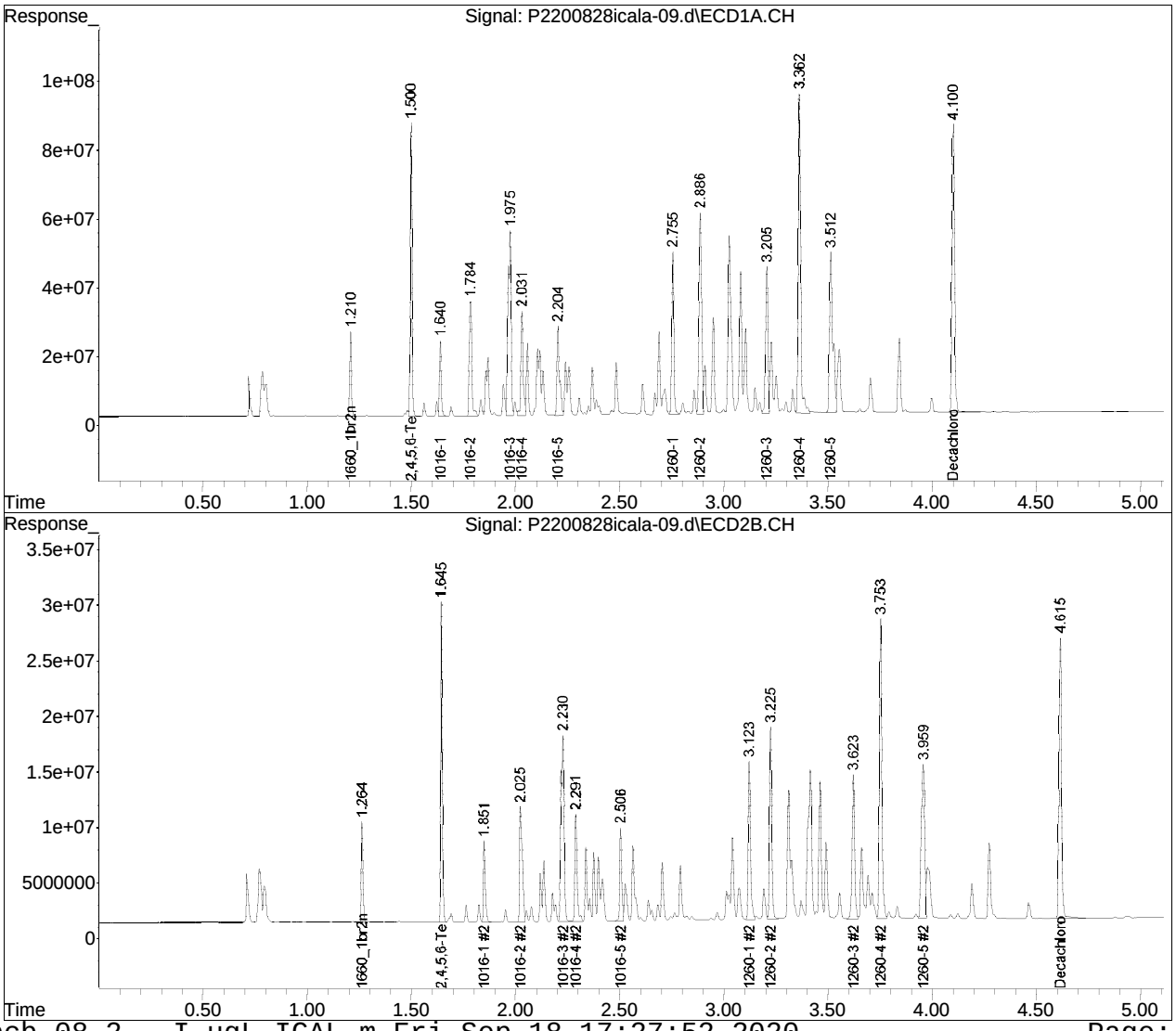
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 9:55 pm
Operator : pest2:kb
Sample : il61660,42e,,9810
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:54:09 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:30:54 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

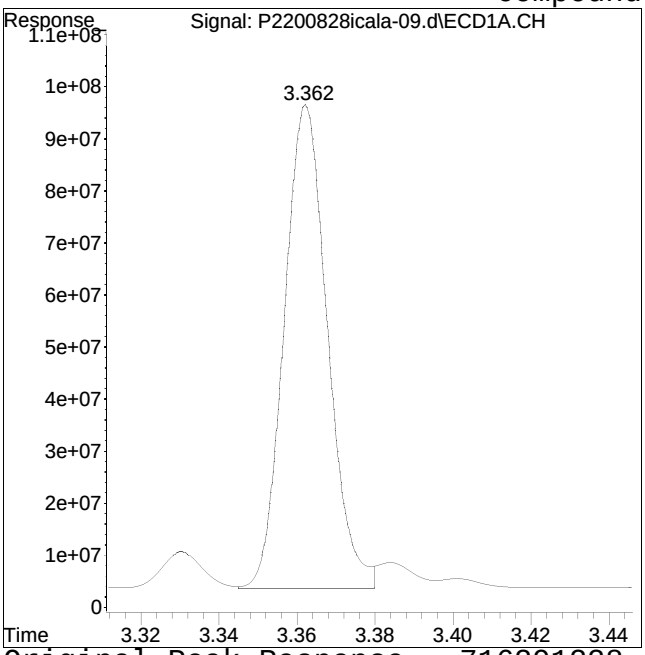
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

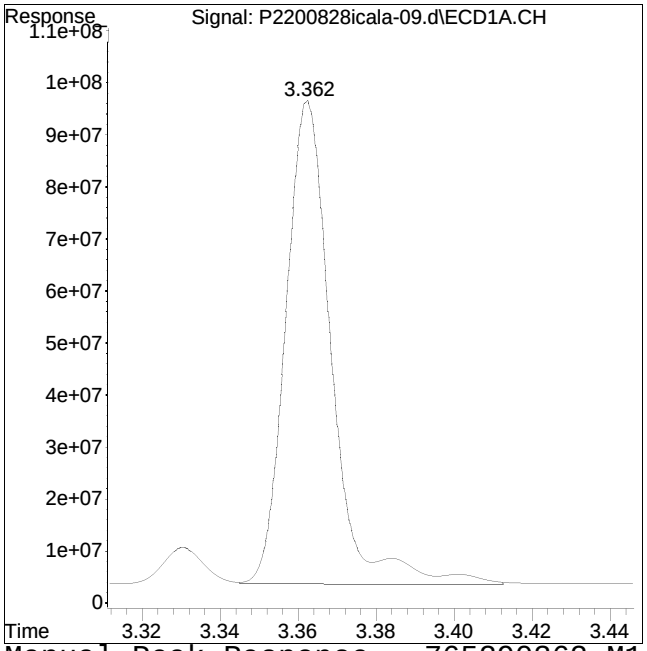


Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-09.d Operator : pest2:kb
Date Inj'd : 8/28/2020 9:55 pm Instrument : PEST 2
Sample : il61660,42e,,9810 Quant Date : 9/15/2020 11:31 am

Compound #12: 1260-4





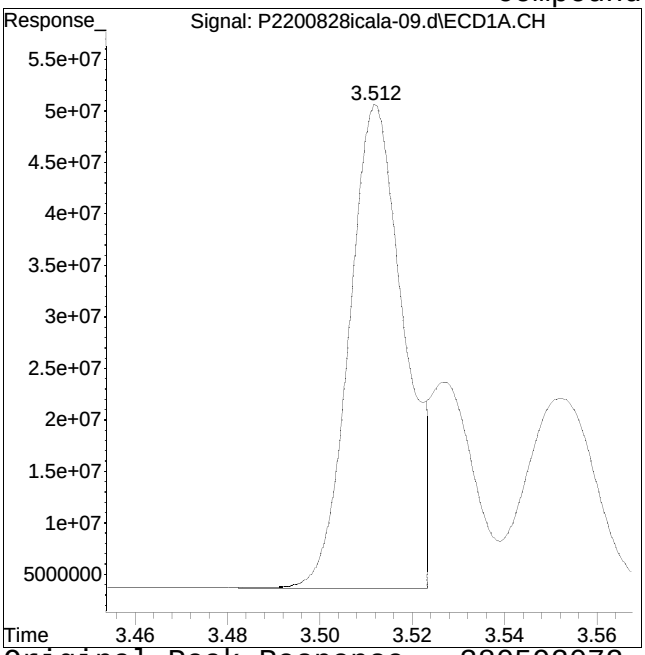
Original Peak Response = 716291228 Manual Peak Response = 765290362 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

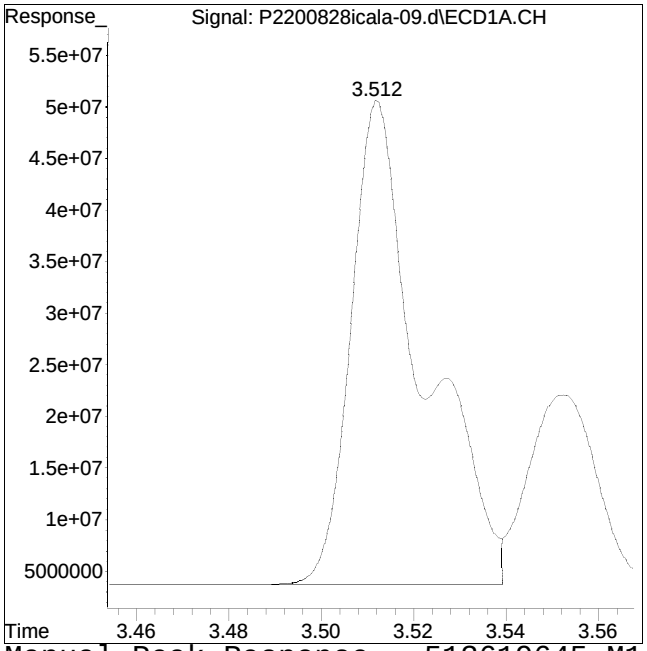
Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-09.d
Date Inj'd : 8/28/2020 9:55 pm
Sample : il61660,42e,,9810

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:kb
Instrument : PEST 2
Quant Date : 9/15/2020 11:31 am

Compound #13: 1260-5





Original Peak Response = 380592072 Manual Peak Response = 513619645 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:02 pm
Operator : pest2:kb
Sample : il44268,42e,,9831
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 17:14:51 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri Sep 18 17:14:39 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	1.210	1.264	145.7E6	52852137	25.000	25.000
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:02 pm
Operator : pest2:kb
Sample : il44268,42e,,9831
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 17:14:51 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri Sep 18 17:14:39 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	1.640	1.851	26861019	9918629	250.000	250.000
25) l6	1242-2	1.784	2.025	57831190	22327320	250.000	250.000
26) l6	1242-3	1.975	2.230	122.4E6	42629780	250.000	250.000
27) l6	1242-4	2.031	2.292	48715889	17464455	250.000	250.000
28) l6	1242-5	2.388	2.682	39671990	14093022	250.000	250.000M2
Sum	1242-1			295.5E6	106.4E6	1250.000	1250.000
Average	1242-1					250.000	250.000
29) l9	1268-1	3.528	3.952	269.3E6	86513864	250.000M4	250.000M2
30) l9	1268-2	3.549	3.978	250.9E6	78444520	250.000M2	250.000M2
31) l9	1268-3	3.652	4.122	191.6E6	64594289	250.000	250.000
32) l9	1268-4	3.841	4.275	89345248	28869736	250.000	250.000
33) l9	1268-5	3.996	4.463	611.6E6	189.8E6	250.000	250.000
Sum	1268-1			1412.6E6	448.3E6	N.D.	N.D. D
Average	1268-1					250.000	250.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:02 pm
Operator : pest2:kb
Sample : il44268,42e,,9831
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 17:14:51 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri Sep 18 17:14:39 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

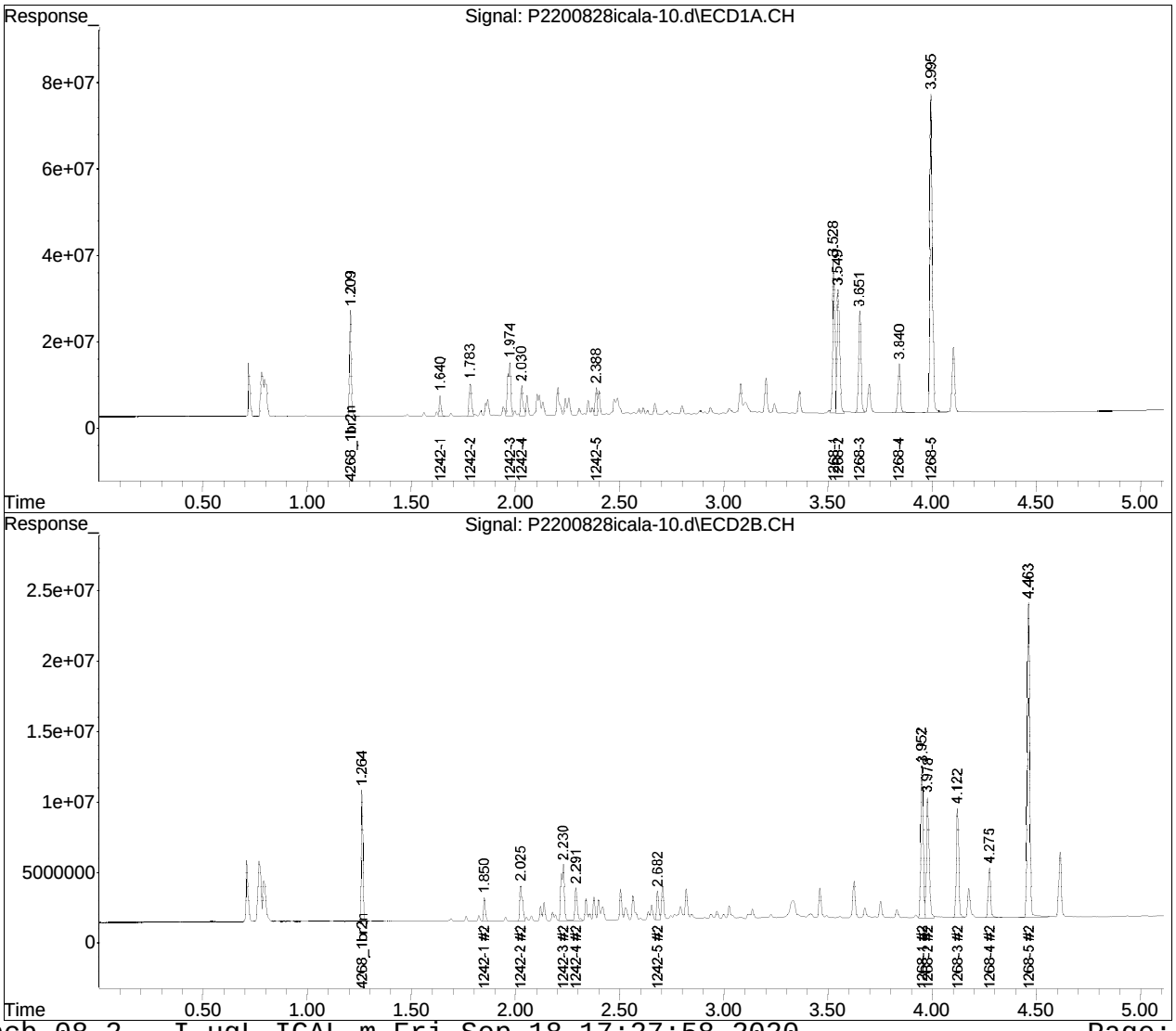
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:02 pm
Operator : pest2:kb
Sample : il44268,42e,,9831
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 17:14:51 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri Sep 18 17:14:39 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

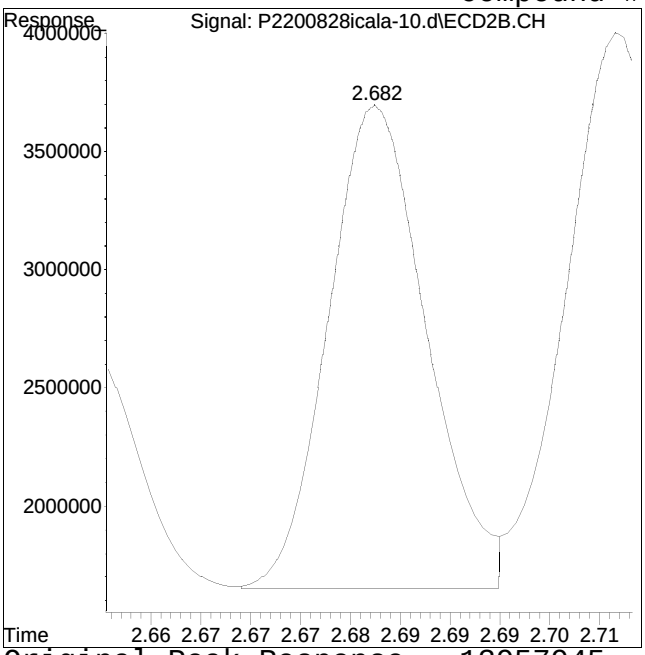
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

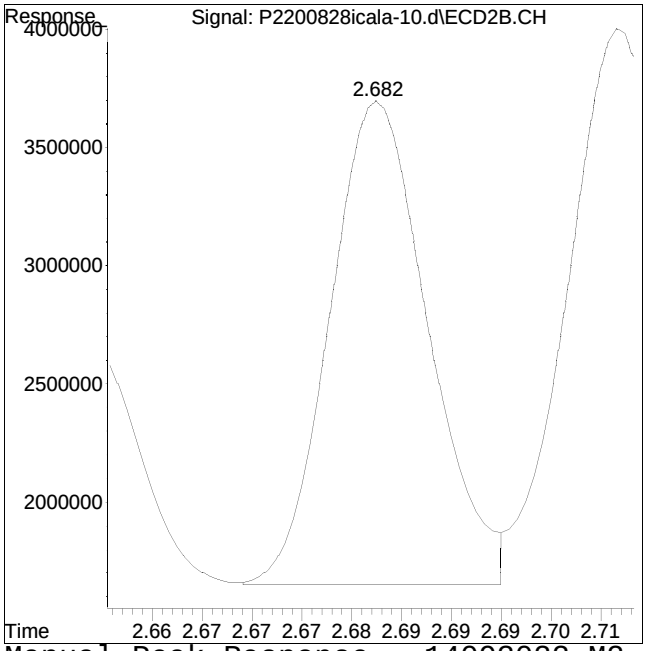


Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-10.d Operator : pest2:kb
Date Inj'd : 8/28/2020 10:02 pm Instrument : PEST 2
Sample : il44268,42e,,9831 Quant Date : 9/18/2020 5:14 pm

Compound #79: 1242-5 #2





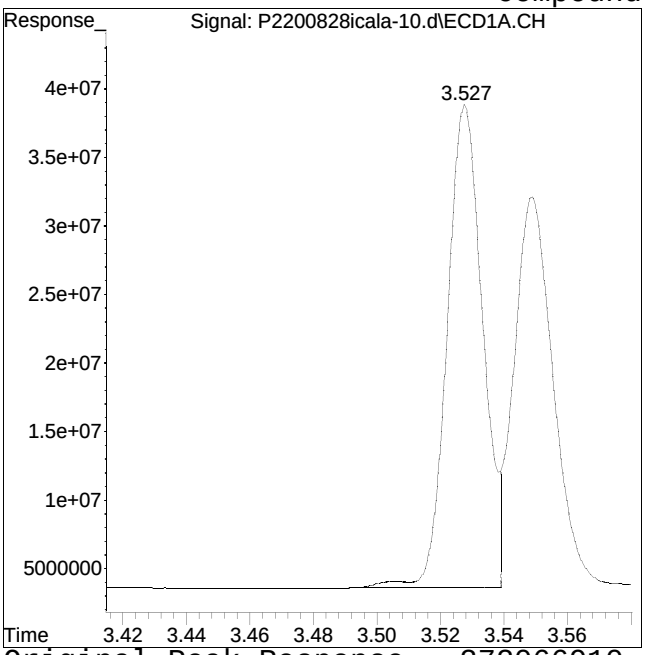
Original Peak Response = 13957945 Manual Peak Response = 14093022 M2
M2 = Peak not found by automatic integration algorithm.

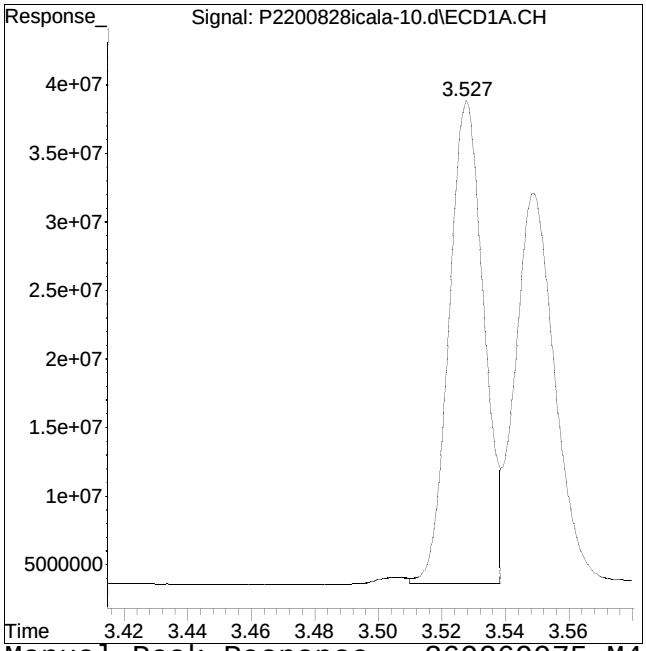
Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-10.d
Date Inj'd : 8/28/2020 10:02 pm
Sample : il44268,42e,,9831

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:kb
Instrument : PEST 2
Quant Date : 9/18/2020 5:14 pm

Compound #29: 1268-1





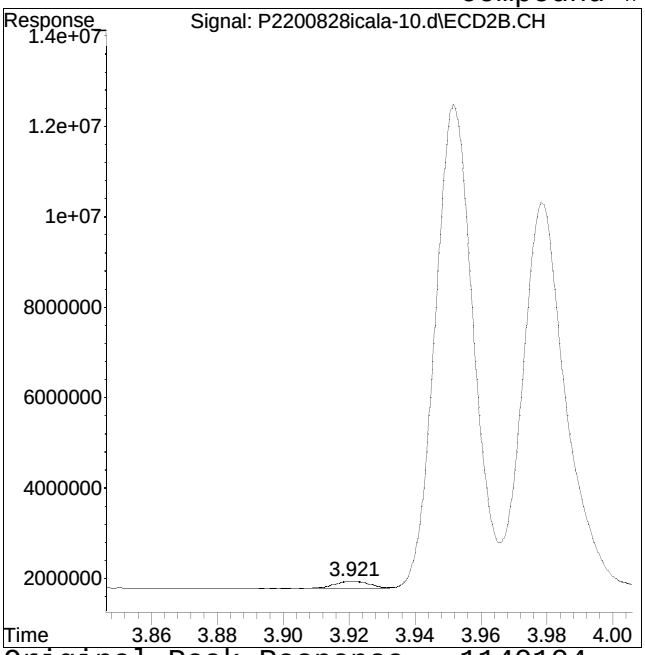
Original Peak Response = 272066910 Manual Peak Response = 269269975 M4
M4 = Poor automated baseline construction.

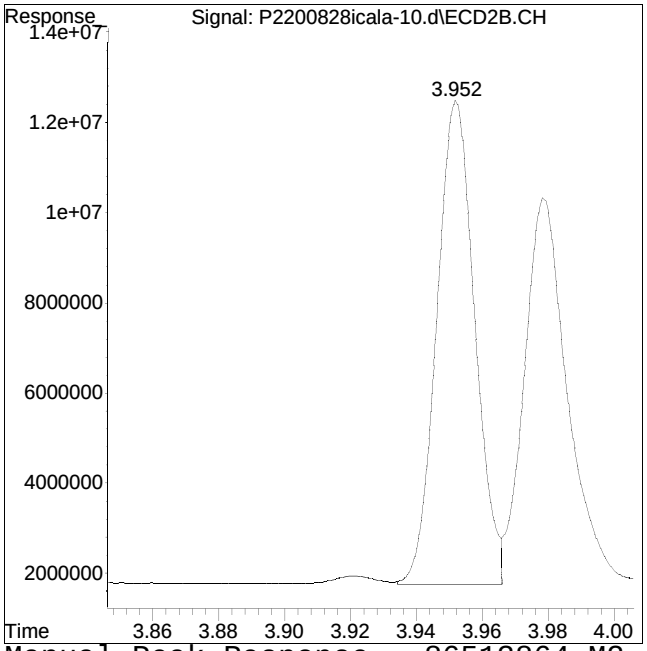
Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-10.d
Date Inj'd : 8/28/2020 10:02 pm
Sample : il44268,42e,,9831

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:kb
Instrument : PEST 2
Quant Date : 9/18/2020 5:14 pm

Compound #80: 1268-1 #2



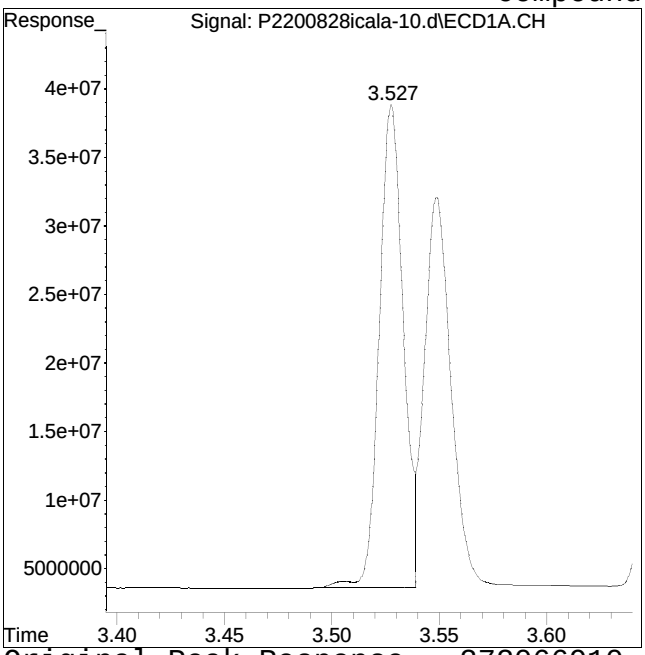


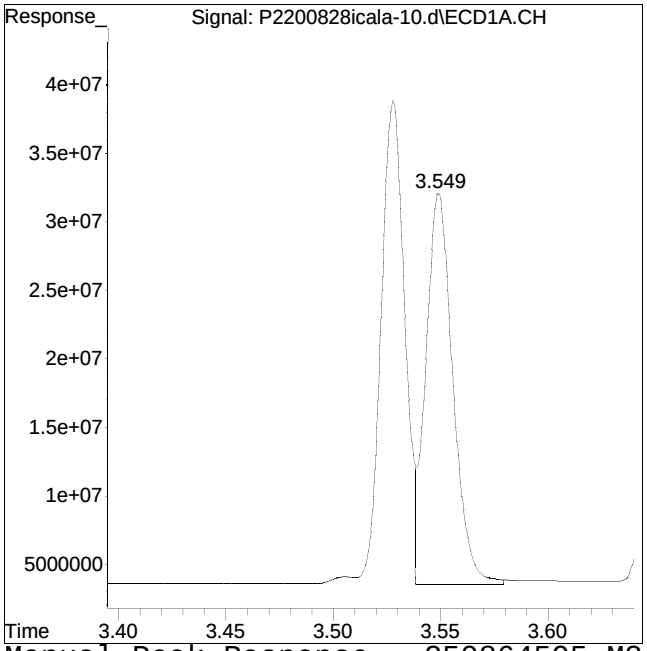
Original Peak Response = 1140104 Manual Peak Response = 86513864 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-10.d Operator : pest2:kb
Date Inj'd : 8/28/2020 10:02 pm Instrument : PEST 2
Sample : il44268,42e,,9831 Quant Date : 9/18/2020 5:14 pm

Compound #30: 1268-2



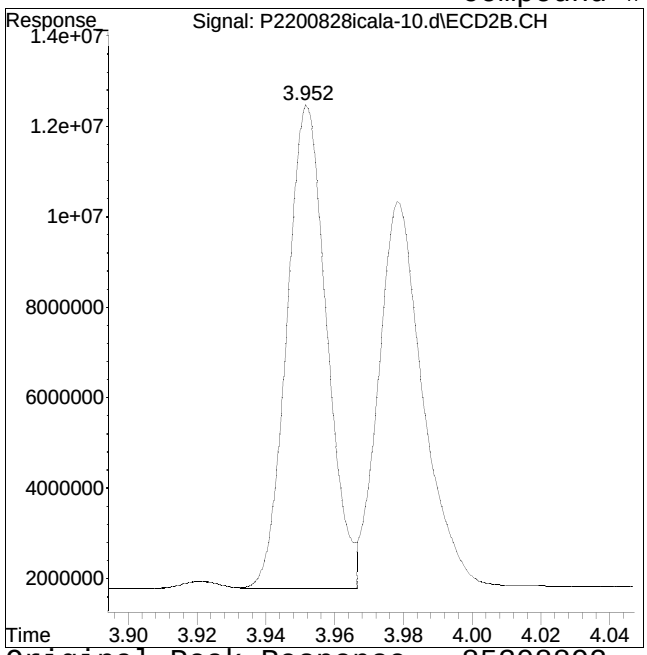


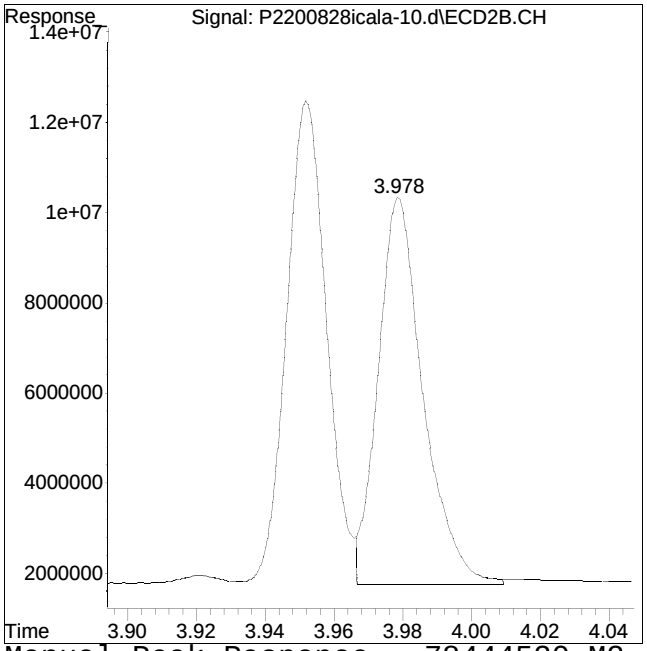
Original Peak Response = 272066910 Manual Peak Response = 250864595 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-10.d Operator : pest2:kb
Date Inj'd : 8/28/2020 10:02 pm Instrument : PEST 2
Sample : il44268,42e,,9831 Quant Date : 9/18/2020 5:14 pm

Compound #81: 1268-2 #2





Original Peak Response = 85308892 Manual Peak Response = 78444520 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:10 pm
Operator : pest2:kb
Sample : il43262,42e,,9812
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 17:17:42 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri Sep 18 17:17:27 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	1.210	1.265	142.6E6	52030816	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:10 pm
Operator : pest2:kb
Sample : il43262,42e,,9812
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 17:17:42 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri Sep 18 17:17:27 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:10 pm
Operator : pest2:kb
Sample : il43262,42e,,9812
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 17:17:42 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri Sep 18 17:17:27 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound		RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	1.640	1.851	38350551	14271815	250.000	250.000
42) l5	1232-2	1.784	2.026	34654841	14468138	250.000	250.000
43) l5	1232-3	1.975	2.230	72217488	25998584	250.000	250.000
44) l5	1232-4	2.031	2.292	29789914	10630500	250.000	250.000
45) l5	1232-5	2.389	2.683	21509653	7768703	250.000	250.000
Sum	1232-1			196.5E6	73137741	1250.000	1250.000
Average	1232-1					250.000	250.000
46) l8	1262-1	2.886	3.226	105.9E6	32243152	250.000	250.000
47) l8	1262-2	3.080	3.463	147.7E6	44988695	250.000	250.000
48) l8	1262-3	3.205	3.624	122.0E6	40318729	250.000	250.000
49) l8	1262-4	3.362	3.754	238.9E6	75025927	250.000	250.000
50) l8	1262-5	3.841	4.276	78076573	27169600	250.000	250.000
Sum	1262-1			692.6E6	219.7E6	1250.000	1250.000
Average	1262-1					250.000	250.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			692.6E6	219.7E6	1250.000	1250.000
Average	1262-1					250.000	250.000

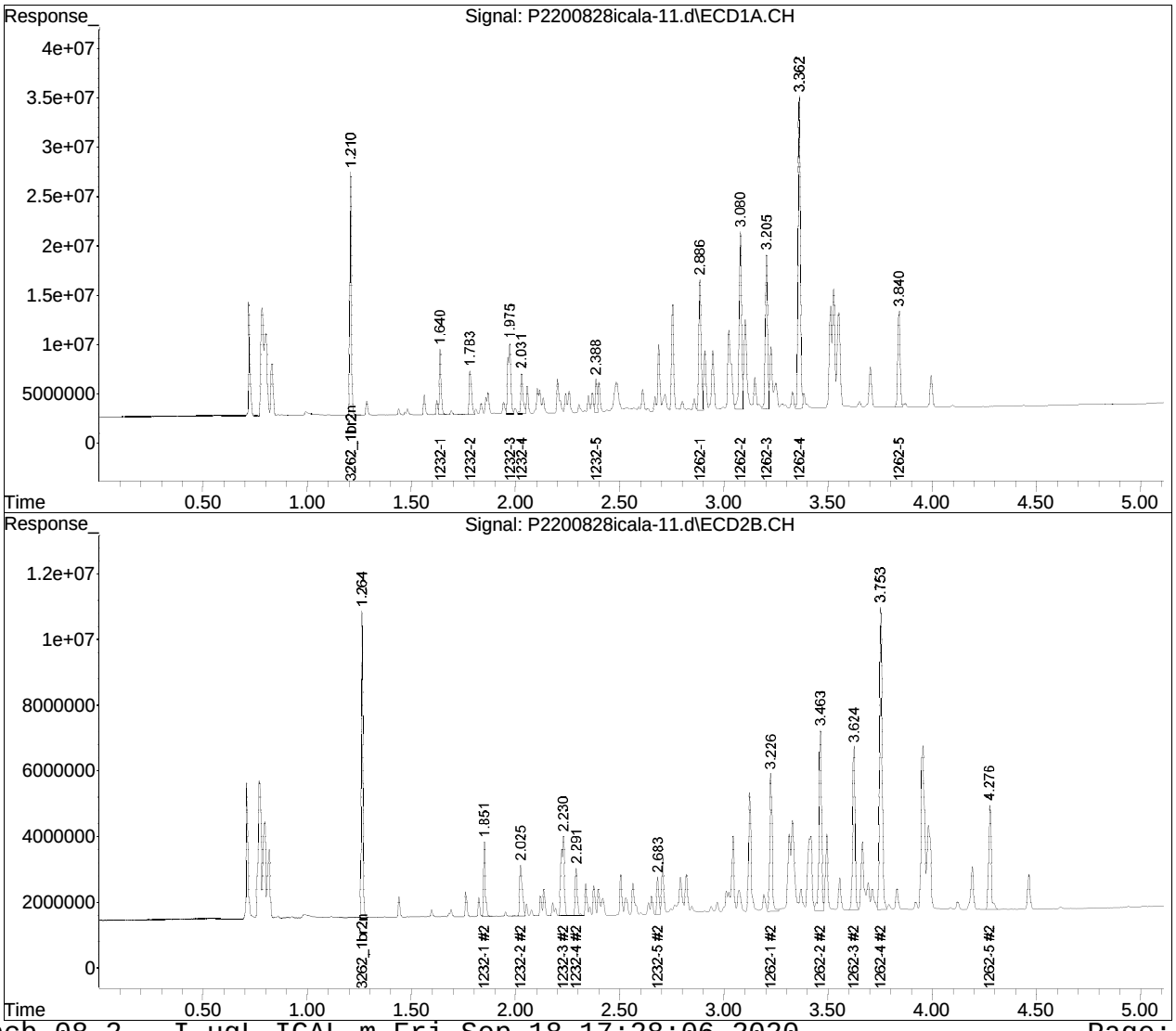
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:10 pm
Operator : pest2:kb
Sample : il43262,42e,,9812
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 17:17:42 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri Sep 18 17:17:27 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest2\200828icalLVI\	QMethod	: P2_pcb_08_28_20_LVI_ugL_
Data File	: P2200828icala-11.d	Operator	: pest2:kb
Date Inj'd	: 8/28/2020 10:10 pm	Instrument	: PEST 2
Sample	: il43262,42e,,9812	Quant Date	: 9/18/2020 5:17 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:17 pm
Operator : pest2:kb
Sample : il41248,42e,,9814
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 17:19:14 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri Sep 18 17:19:00 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	1.210	1.264	142.9E6	51578076	25.000	25.000
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:17 pm
Operator : pest2:kb
Sample : il41248,42e,,9814
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 17:19:14 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri Sep 18 17:19:00 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	1.974	2.220	77472365	28847517	250.000M1	250.000M1
36) l7	1248-2	2.106	2.378	93648005	18519739	250.000M1	250.000
37) l7	1248-3	2.204	2.506	82201497	22783178	250.000	250.000
38) l7	1248-4	2.389	2.683	74154859	25290090	250.000	250.000
39) l7	1248-5	2.402	2.707	63914721	28940477	250.000	250.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:17 pm
Operator : pest2:kb
Sample : il41248,42e,,9814
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 17:19:14 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri Sep 18 17:19:00 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			391.4E6	124.4E6	N.D.	N.D. D
Average	1248-1					250.000	250.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

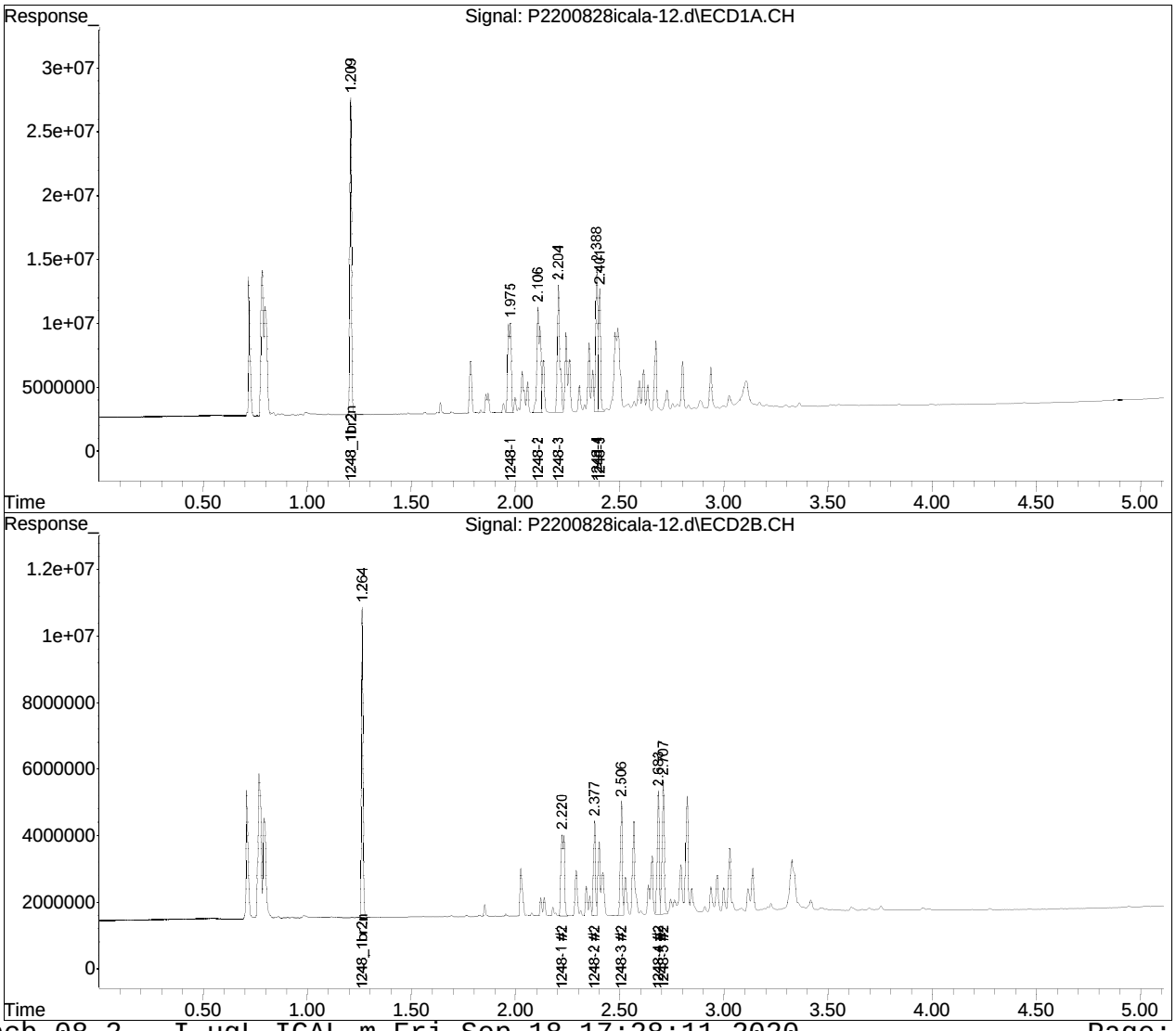
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:17 pm
Operator : pest2:kb
Sample : il41248,42e,,9814
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 17:19:14 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri Sep 18 17:19:00 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

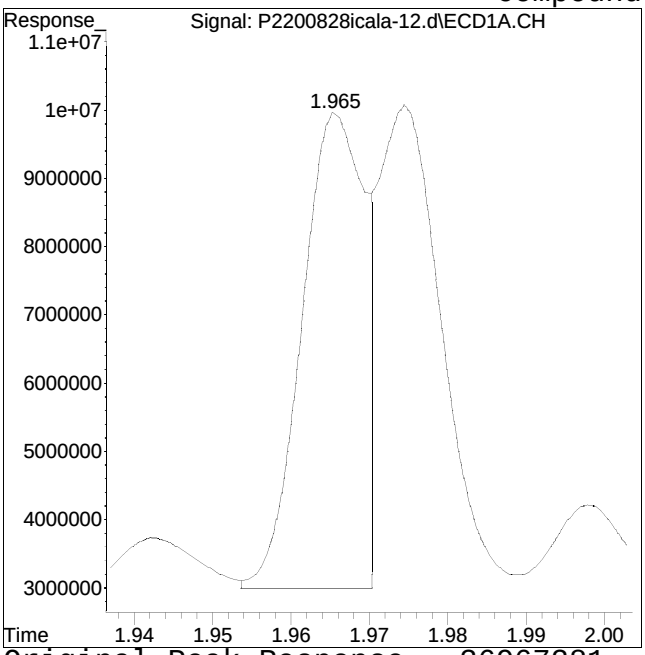
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

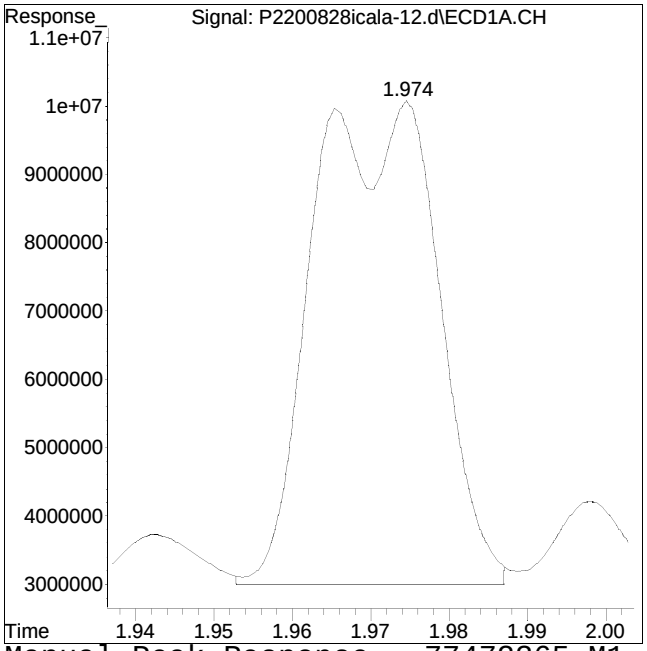


Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-12.d Operator : pest2:kb
Date Inj'd : 8/28/2020 10:17 pm Instrument : PEST 2
Sample : il41248,42e,,9814 Quant Date : 9/18/2020 5:19 pm

Compound #35: 1248-1



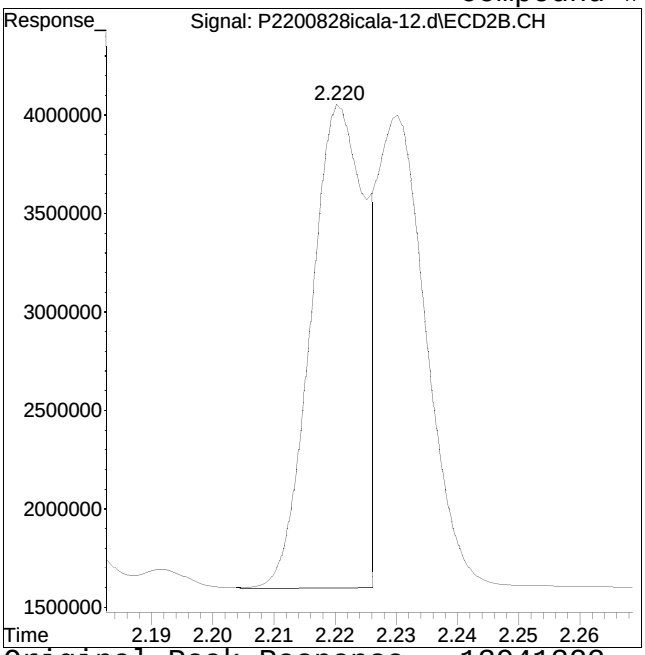


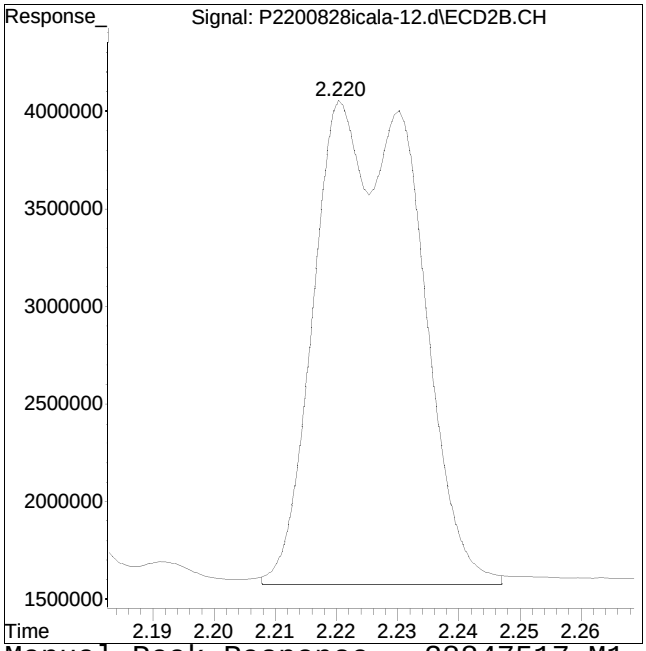
Original Peak Response = 36967281 Manual Peak Response = 77472365 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-12.d Operator : pest2:kb
Date Inj'd : 8/28/2020 10:17 pm Instrument : PEST 2
Sample : il41248,42e,,9814 Quant Date : 9/18/2020 5:19 pm

Compound #86: 1248-1 #2



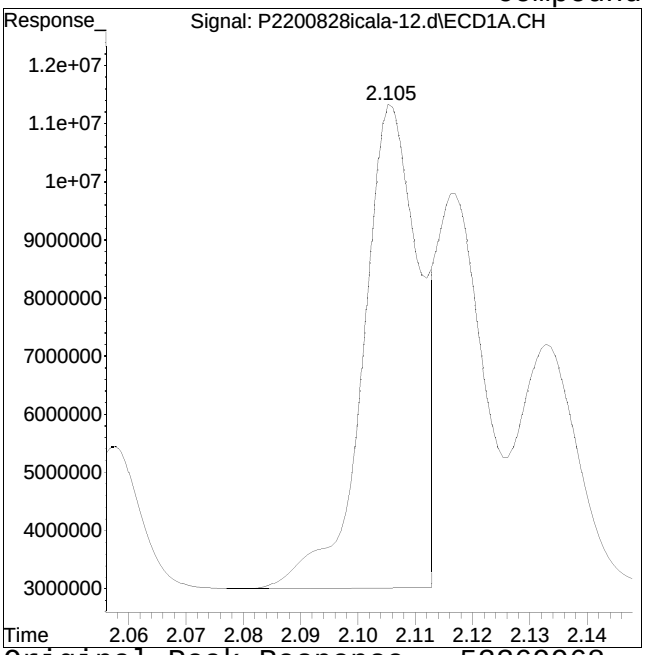


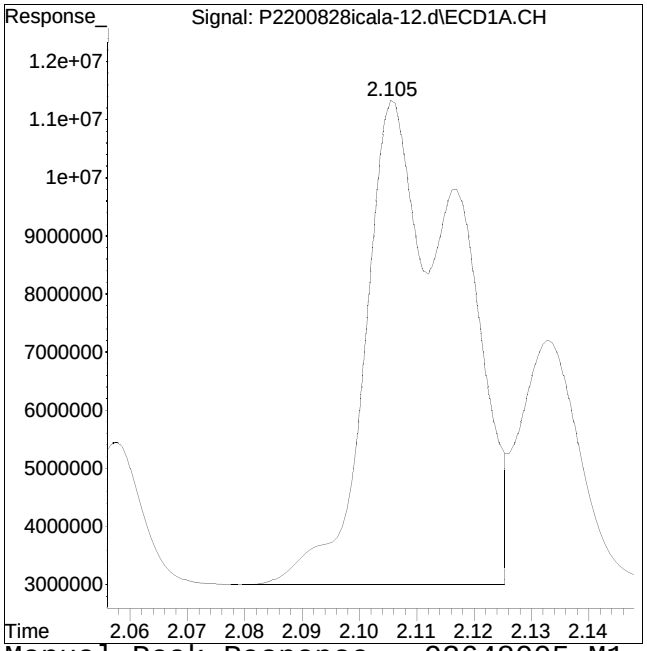
Original Peak Response = 13941322 Manual Peak Response = 28847517 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-12.d Operator : pest2:kb
Date Inj'd : 8/28/2020 10:17 pm Instrument : PEST 2
Sample : il41248,42e,,9814 Quant Date : 9/18/2020 5:19 pm

Compound #36: 1248-2





Original Peak Response = 53369968 Manual Peak Response = 93648005 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:25 pm
Operator : pest2:kb
Sample : il42154,42e,,9811
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 17:20:00 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri Sep 18 17:19:47 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	1.210	1.265	137.6E6	50131764	25.000	25.000
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	1.563	1.764	17953000	6947146	250.000	250.000
16) l3	1221-3	1.623	1.825	10918284	4554503	250.000	250.000
17) l3	1221-4	1.641	1.852	45179772	16651543	250.000	250.000

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:25 pm
Operator : pest2:kb
Sample : il42154,42e,,9811
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 17:20:00 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri Sep 18 17:19:47 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
Sum	1221-2			74051056	28153192	750.000	750.000	
Average	1221-2					250.000	250.000	
18) l4	1254-1	2.370	2.706	59169959	24331899	250.000	250.000	
19) l4	1254-2	2.484	2.793	108.4E6	32518534	250.000	250.000	
20) l4	1254-3	2.671	3.027	107.1E6	43226587	250.000	250.000	
21) l4	1254-4	2.801	3.138	83436031	29288520	250.000	250.000	
22) l4	1254-5	3.026	3.418	114.7E6	40158525	250.000	250.000	
Sum	1254-1			472.8E6	169.5E6	N.D.	N.D.	D
Average	1254-1					250.000	250.000	
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d	
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d	
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d	
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d	
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d	
Sum	1242-1			0	0	N.D.	N.D.	
Average	1242-1					0.000	0.000	
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d	
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d	
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d	
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d	
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d	
Sum	1268-1			0	0	N.D.	N.D.	
Average	1268-1					0.000	0.000	
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d	
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d	
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d	
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d	
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d	
Sum	1248-1			0	0	N.D.	N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:25 pm
Operator : pest2:kb
Sample : il42154,42e,,9811
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 17:20:00 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri Sep 18 17:19:47 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

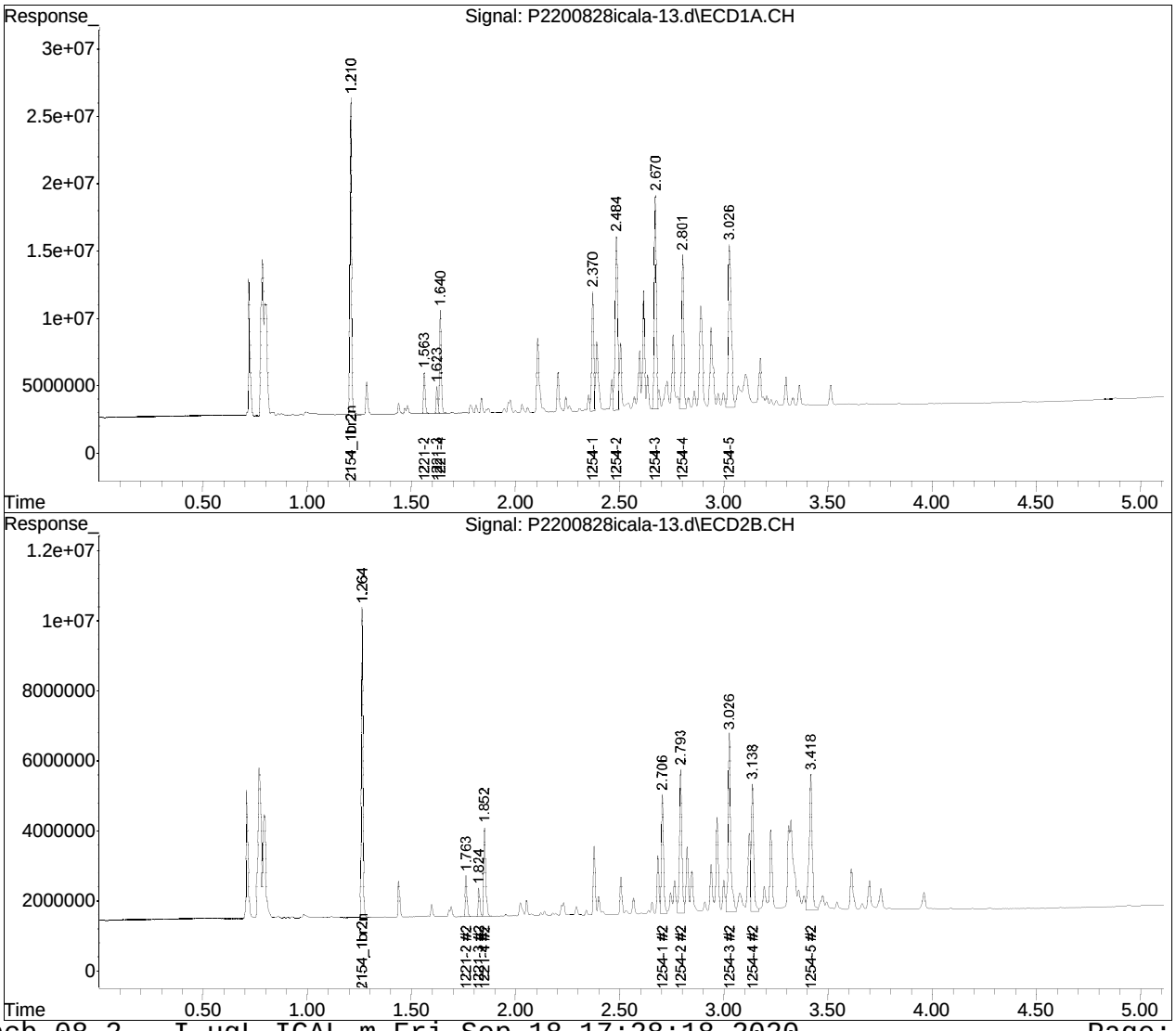
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:25 pm
Operator : pest2:kb
Sample : il42154,42e,,9811
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 17:20:00 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri Sep 18 17:19:47 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest2\200828icalLVI\	QMethod	: P2_pcb_08_28_20_LVI_ugL_
Data File	: P2200828icala-13.d	Operator	: pest2:kb
Date Inj'd	: 8/28/2020 10:25 pm	Instrument	: PEST 2
Sample	: il42154,42e,,9811	Quant Date	: 9/18/2020 5:19 pm

There are no manual integrations or false positives in this file.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 28 Aug 2020 10:32 pm
Operator : pest2:kb
Sample   : cicv1660,42e,,9815
Misc   : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 17:11:28 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri Sep 18 17:11:21 2020
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	25.000	25.000	0.0	101	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	16.000	17.007	-6.3	105	0.00
3	s	Decachlorobiphenyl	32.000	35.403	-10.6	109	0.00
4	l1	1016-1	250.000	244.513	2.2	97	0.00
5	l1	1016-2	250.000	266.880	-6.8	107	0.00
6	l1	1016-3	250.000	280.032	-12.0	110	0.00
7	l1	1016-4	250.000	280.633	-12.3	109	0.00
8	l1	1016-5	250.000	267.982	-7.2	108	0.00
9	l2	1260-1	250.000	264.490	-5.8	105	0.00
10	l2	1260-2	250.000	279.892	-12.0	109	0.00
11	l2	1260-3	250.000	239.808	4.1	92	0.00
12	l2	1260-4	250.000	240.573	3.8	92	0.00
13	l2	1260-5	250.000	244.542	2.2	95	0.00
14	i	2154_1br2nb	25.000	25.000	0.0	106	0.00
23	i	4268_1br2nb	25.000	25.000	0.0	100	0.00
34	i	1248_1br2nb	25.000	25.000	0.0	102	0.00
40	i	3262_1br2nb	25.000	25.000	0.0	102	0.00

Signal #2

1	i	1660_1br2nb	25.000	25.000	0.0	103	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl	16.000	16.168	-1.0	103	0.00
3	s	Decachlorobiphenyl	32.000	32.910	-2.8	108	0.00
4	l1	1016-1	250.000	237.402	5.0	102	0.00
5	l1	1016-2	250.000	261.938	-4.8	108	0.00
6	l1	1016-3	250.000	268.015	-7.2	111	0.00

Evaluate Continuing Calibration Report

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 28 Aug 2020 10:32 pm
Operator : pest2:kb
Sample   : cicv1660,42e,,9815
Misc   : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 17:11:28 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri Sep 18 17:11:21 2020
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
7	l1	1016-4	250.000	258.574	-3.4	110	0.00
8	l1	1016-5	250.000	263.789	-5.5	109	0.00
9	l2	1260-1	250.000	272.600	-9.0	112	0.00
10	l2	1260-2	250.000	257.440	-3.0	107	0.00
11	l2	1260-3	250.000	239.887	4.0	98	0.00
12	l2	1260-4	250.000	228.735	8.5	93	0.00
13	l2	1260-5	250.000	236.859	5.3	97	0.00
14	i	2154_1br2nb	25.000	25.000	0.0	104	0.00
23	i	4268_1br2nb	25.000	25.000	0.0	99	0.00
34	i	1248_1br2nb	25.000	25.000	0.0	101	0.00
40	i	3262_1br2nb	25.000	25.000	0.0	100	0.00

Evaluate Continuing Calibration Report - Not Founds

15	l3	1221-2	250.000	0.000	100.0#	0	-1.56#
16	l3	1221-3	250.000	0.000	100.0#	0	-1.62#
17	l3	1221-4	250.000	0.000	100.0#	0	-1.64#
18	l4	1254-1	250.000	0.000	100.0#	0	-2.37#
19	l4	1254-2	250.000	0.000	100.0#	0	-2.48#
20	l4	1254-3	250.000	0.000	100.0#	0	-2.67#
21	l4	1254-4	250.000	0.000	100.0#	0	-2.80#
22	l4	1254-5	250.000	0.000	100.0#	0	-3.03#
24	l6	1242-1	250.000	0.000	100.0#	0	-1.64#
25	l6	1242-2	250.000	0.000	100.0#	0	-1.78#
26	l6	1242-3	250.000	0.000	100.0#	0	-1.98#
27	l6	1242-4	250.000	0.000	100.0#	0	-2.03#
28	l6	1242-5	250.000	0.000	100.0#	0	-2.39#

Evaluate Continuing Calibration Report

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 28 Aug 2020 10:32 pm
Operator : pest2:kb
Sample   : cicv1660,42e,,9815
Misc   : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 17:11:28 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri Sep 18 17:11:21 2020
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
29	l9	1268-1	250.000	0.000	100.0#	0	-3.53#
30	l9	1268-2	250.000	0.000	100.0#	0	-3.55#
31	l9	1268-3	250.000	0.000	100.0#	0	-3.65#
32	l9	1268-4	250.000	0.000	100.0#	0	-3.84#
33	l9	1268-5	250.000	0.000	100.0#	0	-4.00#
35	l7	1248-1	250.000	0.000	100.0#	0	-1.97#
36	l7	1248-2	250.000	0.000	100.0#	0	-2.11#
37	l7	1248-3	250.000	0.000	100.0#	0	-2.20#
38	l7	1248-4	250.000	0.000	100.0#	0	-2.39#
39	l7	1248-5	250.000	0.000	100.0#	0	-2.40#
41	l5	1232-1	250.000	0.000	100.0#	0	-1.64#
42	l5	1232-2	250.000	0.000	100.0#	0	-1.78#
43	l5	1232-3	250.000	0.000	100.0#	0	-1.98#
44	l5	1232-4	250.000	0.000	100.0#	0	-2.03#
45	l5	1232-5	250.000	0.000	100.0#	0	-2.39#
46	l8	1262-1	250.000	0.000	100.0#	0	-2.89#
47	l8	1262-2	250.000	0.000	100.0#	0	-3.08#
48	l8	1262-3	250.000	0.000	100.0#	0	-3.21#
49	l8	1262-4	250.000	0.000	100.0#	0	-3.36#
50	l8	1262-5	250.000	0.000	100.0#	0	-3.84#

Signal #2

15	l3	1221-2	250.000	0.000	100.0#	0	-1.76#
16	l3	1221-3	250.000	0.000	100.0#	0	-1.83#
17	l3	1221-4	250.000	0.000	100.0#	0	-1.85#
18	l4	1254-1	250.000	0.000	100.0#	0	-2.71#
19	l4	1254-2	250.000	0.000	100.0#	0	-2.79#
20	l4	1254-3	250.000	0.000	100.0#	0	-3.03#
21	l4	1254-4	250.000	0.000	100.0#	0	-3.14#
22	l4	1254-5	250.000	0.000	100.0#	0	-3.42#

Evaluate Continuing Calibration Report

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 28 Aug 2020 10:32 pm
Operator : pest2:kb
Sample   : cicv1660,42e,,9815
Misc   : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 17:11:28 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri Sep 18 17:11:21 2020
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
24 l6	1242-1	250.000	0.000	100.0#	0	-1.85#
25 l6	1242-2	250.000	0.000	100.0#	0	-2.02#
26 l6	1242-3	250.000	0.000	100.0#	0	-2.23#
27 l6	1242-4	250.000	0.000	100.0#	0	-2.29#
28 l6	1242-5	250.000	0.000	100.0#	0	-2.68#
29 l9	1268-1	250.000	0.000	100.0#	0	-3.95#
30 l9	1268-2	250.000	0.000	100.0#	0	-3.98#
31 l9	1268-3	250.000	0.000	100.0#	0	-4.12#
32 l9	1268-4	250.000	0.000	100.0#	0	-4.28#
33 l9	1268-5	250.000	0.000	100.0#	0	-4.46#
35 l7	1248-1	250.000	0.000	100.0#	0	-2.22#
36 l7	1248-2	250.000	0.000	100.0#	0	-2.38#
37 l7	1248-3	250.000	0.000	100.0#	0	-2.51#
38 l7	1248-4	250.000	0.000	100.0#	0	-2.68#
39 l7	1248-5	250.000	0.000	100.0#	0	-2.71#
41 l5	1232-1	250.000	0.000	100.0#	0	-1.85#
42 l5	1232-2	250.000	0.000	100.0#	0	-2.03#
43 l5	1232-3	250.000	0.000	100.0#	0	-2.23#
44 l5	1232-4	250.000	0.000	100.0#	0	-2.29#
45 l5	1232-5	250.000	0.000	100.0#	0	-2.68#
46 l8	1262-1	250.000	0.000	100.0#	0	-3.23#
47 l8	1262-2	250.000	0.000	100.0#	0	-3.46#
48 l8	1262-3	250.000	0.000	100.0#	0	-3.62#
49 l8	1262-4	250.000	0.000	100.0#	0	-3.75#
50 l8	1262-5	250.000	0.000	100.0#	0	-4.28#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:32 pm
Operator : pest2:kb
Sample : cicv1660,42e,,9815
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 17:11:28 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri Sep 18 17:11:21 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.210	1.264	145.9E6	52143596	25.000	25.000
14) i	2154_1br2nb	1.210	1.264	145.9E6	52143596	25.000	25.000
23) i	4268_1br2nb	1.210	1.264	145.9E6	52143596	25.000	25.000
34) i	1248_1br2nb	1.210	1.264	145.9E6	52143596	25.000	25.000
40) i	3262_1br2nb	1.210	1.264	145.9E6	52143596	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.500	1.646	134.5E6	45764465	17.007	16.168
	Spiked Amount	20.000	Range 30 - 150		Recovery =	85.04%	80.84%
3) s	Decachlorobi	4.100	4.616	225.3E6	70970770	35.403	32.910
	Spiked Amount	20.000	Range 30 - 150		Recovery =	177.01%#	164.55%#
	Target Compounds						
4) l1	1016-1	1.640	1.852	33853393	12979634	244.513M3	237.402
5) l1	1016-2	1.785	2.026	83580102	30131189	266.880	261.938
6) l1	1016-3	1.974	2.230	174.5E6	60229497	280.032	268.015
7) l1	1016-4	2.031	2.292	71028884	23309479	280.633	258.574
8) l1	1016-5	2.204	2.506	72528102	19002634	267.982	263.789
	Sum 1016-1			435.5E6	145.7E6	1340.040	1289.718
	Average 1016-1					268.008	257.944
9) l2	1260-1	2.755	3.123	110.5E6	40294466	264.490	272.600M4
10) l2	1260-2	2.886	3.225	174.4E6	44066127	279.892M3	257.440M4
11) l2	1260-3	3.206	3.623	93951293	33810394	239.808	239.887
12) l2	1260-4	3.363	3.753	217.2E6	66211563	240.573	228.735
13) l2	1260-5	3.513	3.958	146.1E6	47954789	244.542	236.859
	Sum 1260-1			742.2E6	232.3E6	1269.305	1235.520
	Average 1260-1					253.861	247.104
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:32 pm
Operator : pest2:kb
Sample : cicv1660,42e,,9815
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 17:11:28 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri Sep 18 17:11:21 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:32 pm
Operator : pest2:kb
Sample : cicv1660,42e,,9815
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 17:11:28 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri Sep 18 17:11:21 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

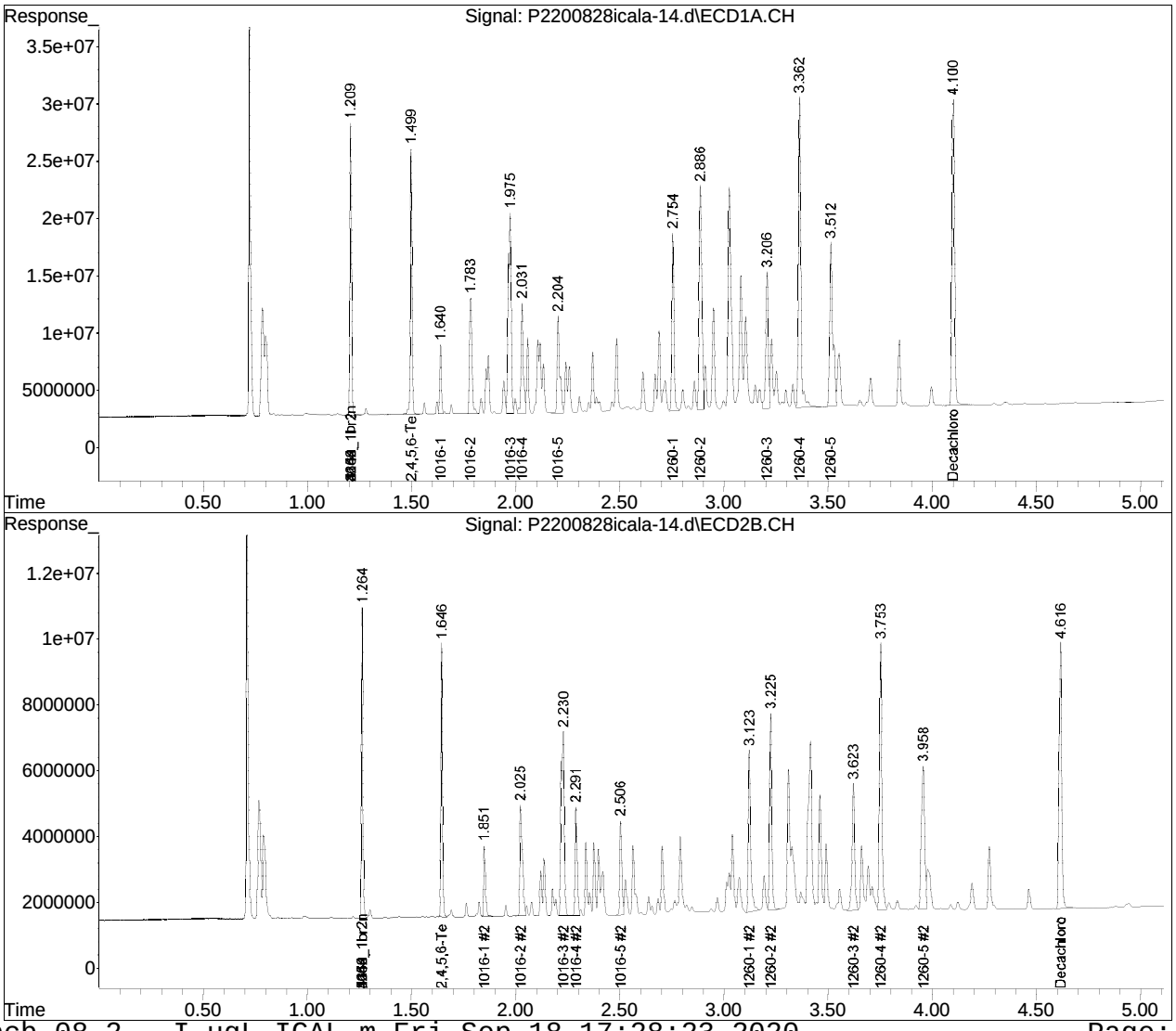
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:32 pm
Operator : pest2:kb
Sample : cicv1660,42e,,9815
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 17:11:28 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri Sep 18 17:11:21 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

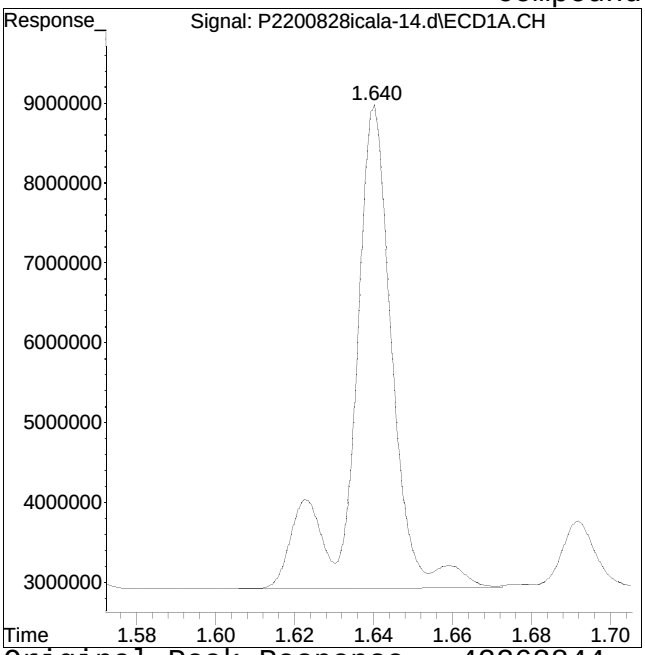
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

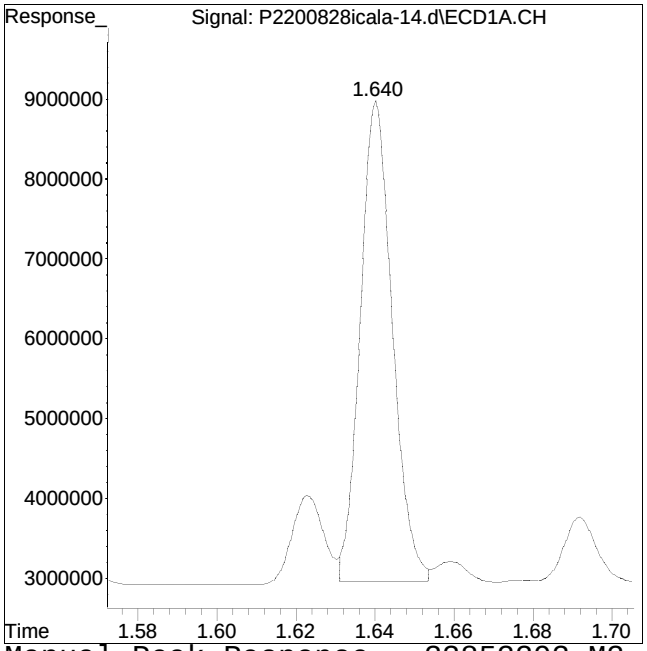


Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-14.d Operator : pest2:kb
Date Inj'd : 8/28/2020 10:32 pm Instrument : PEST 2
Sample : cicv1660,42e,,9815 Quant Date : 9/18/2020 5:11 pm

Compound #4: 1016-1



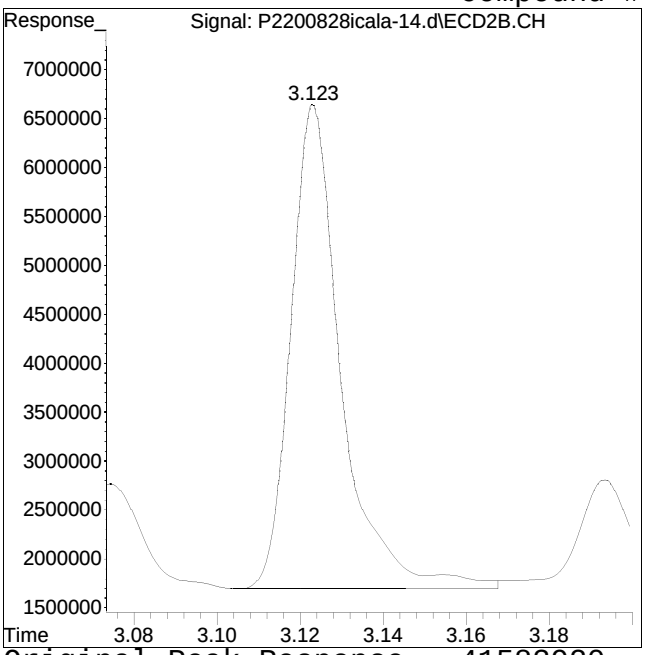


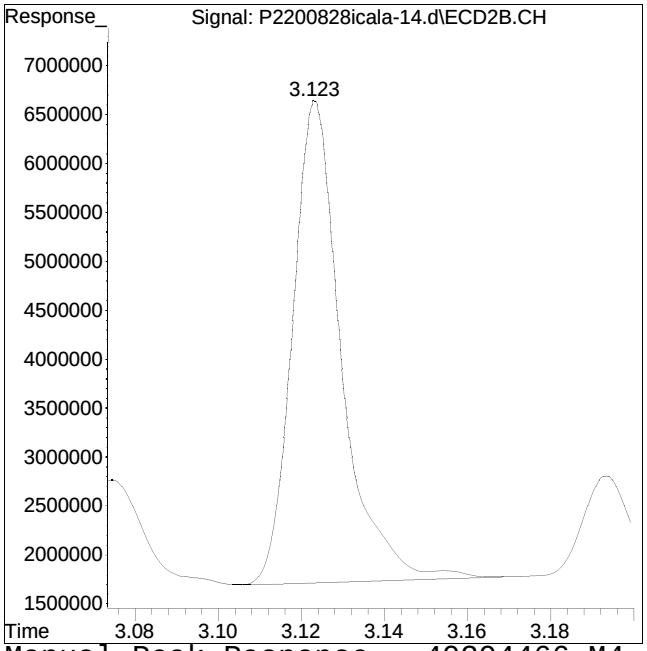
Original Peak Response = 42262844 Manual Peak Response = 33853393 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-14.d Operator : pest2:kb
Date Inj'd : 8/28/2020 10:32 pm Instrument : PEST 2
Sample : cicv1660,42e,,9815 Quant Date : 9/18/2020 5:11 pm

Compound #60: 1260-1 #2



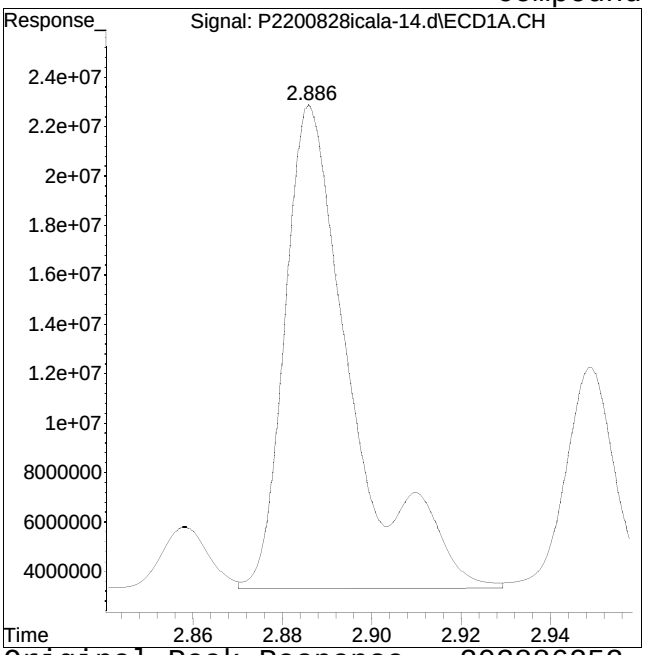


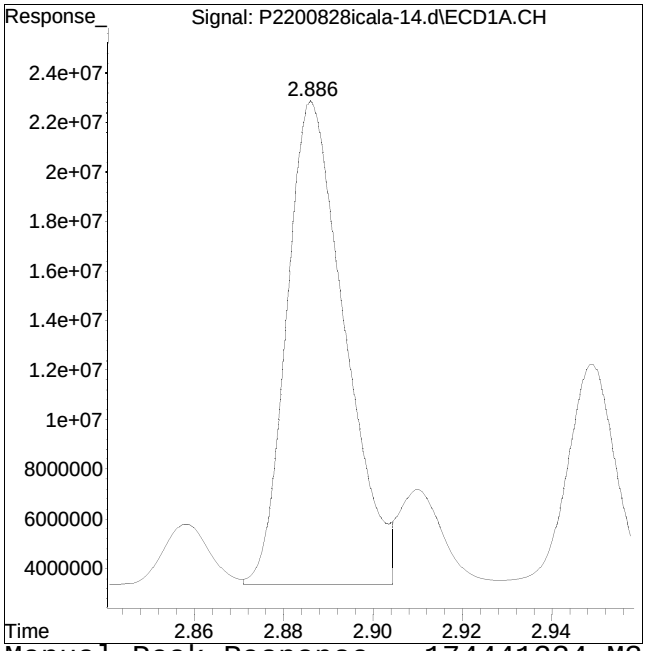
Original Peak Response = 41583920 Manual Peak Response = 40294466 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-14.d Operator : pest2:kb
Date Inj'd : 8/28/2020 10:32 pm Instrument : PEST 2
Sample : cicv1660,42e,,9815 Quant Date : 9/18/2020 5:11 pm

Compound #10: 1260-2



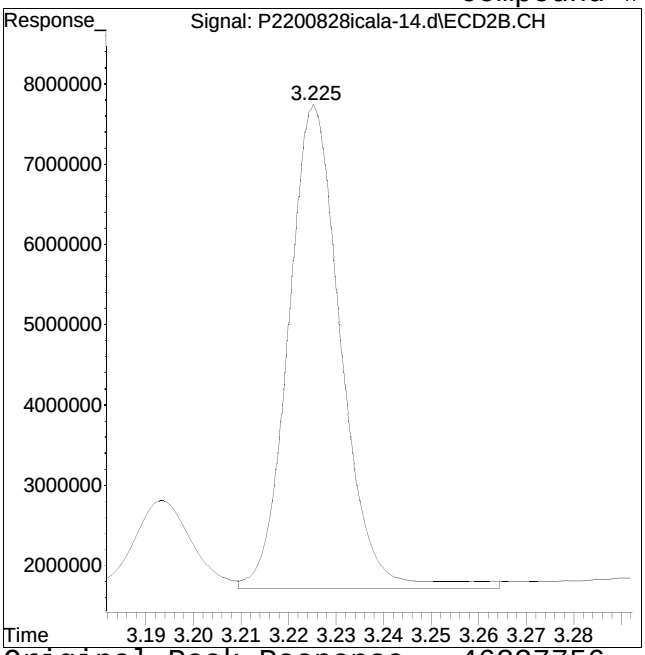


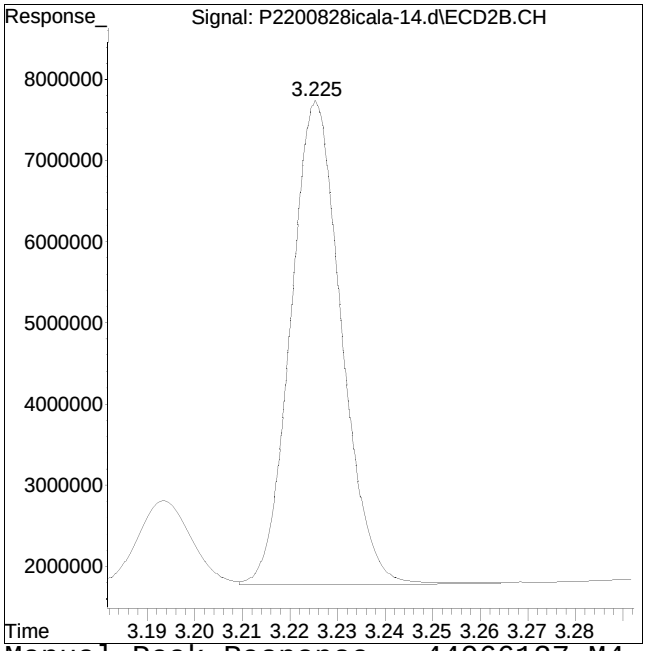
Original Peak Response = 203886252 Manual Peak Response = 174441234 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-14.d Operator : pest2:kb
Date Inj'd : 8/28/2020 10:32 pm Instrument : PEST 2
Sample : cicv1660,42e,,9815 Quant Date : 9/18/2020 5:11 pm

Compound #61: 1260-2 #2





Original Peak Response = 46337756 Manual Peak Response = 44066127 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 28 Aug 2020 10:40 pm
Operator : pest2:kb
Sample   : cicv4268,42e,,9834
Misc   : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:57:42 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	25.000	25.000	0.0	94	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	16.000	16.614	-3.8	96	0.00
3	s	Decachlorobiphenyl	32.000	54.369	-69.9#	157	0.00
14	i	2154_1br2nb	25.000	25.000	0.0	99	0.00
23	i	4268_1br2nb	25.000	25.000	0.0	94	0.00
24	l6	1242-1	250.000	254.662	-1.9	96	0.00
25	l6	1242-2	250.000	265.874	-6.3	100	0.00
26	l6	1242-3	250.000	252.567	-1.0	95	0.00
27	l6	1242-4	250.000	261.847	-4.7	98	0.00
28	l6	1242-5	250.000	251.767	-0.7	95	0.00
29	l9	1268-1	250.000	259.765	-3.9	98	0.00
30	l9	1268-2	250.000	259.656	-3.9	98	0.00
31	l9	1268-3	250.000	263.866	-5.5	99	0.00
32	l9	1268-4	250.000	251.538	-0.6	95	0.00
33	l9	1268-5	250.000	257.182	-2.9	97	0.00
34	i	1248_1br2nb	25.000	25.000	0.0	96	0.00
40	i	3262_1br2nb	25.000	25.000	0.0	96	0.00

Signal #2

1	i	1660_1br2nb	25.000	25.000	0.0	99	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl	16.000	15.533	2.9	96	0.00
3	s	Decachlorobiphenyl	32.000	46.981	-46.8#	150	0.00
14	i	2154_1br2nb	25.000	25.000	0.0	101	0.00

Evaluate Continuing Calibration Report

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 28 Aug 2020 10:40 pm
Operator : pest2:kb
Sample   : cicv4268,42e,,9834
Misc   : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:57:42 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
23	i	4268_1br2nb	25.000	25.000	0.0	96	0.00
24	l6	1242-1	250.000	252.763	-1.1	97	0.00
25	l6	1242-2	250.000	252.113	-0.8	96	0.00
26	l6	1242-3	250.000	252.792	-1.1	97	0.00
27	l6	1242-4	250.000	241.895	3.2	92	0.00
28	l6	1242-5	250.000	248.121	0.8	95	0.00
29	l9	1268-1	250.000	253.234	-1.3	97	0.00
30	l9	1268-2	250.000	254.727	-1.9	97	0.00
31	l9	1268-3	250.000	260.999	-4.4	100	0.00
32	l9	1268-4	250.000	248.463	0.6	95	0.00
33	l9	1268-5	250.000	252.195	-0.9	96	0.00
34	i	1248_1br2nb	25.000	25.000	0.0	98	0.00
40	i	3262_1br2nb	25.000	25.000	0.0	97	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1	250.000	0.000	100.0#	0	-1.64#
5	l1	1016-2	250.000	0.000	100.0#	0	-1.78#
6	l1	1016-3	250.000	0.000	100.0#	0	-1.98#
7	l1	1016-4	250.000	0.000	100.0#	0	-2.03#
8	l1	1016-5	250.000	0.000	100.0#	0	-2.20#
9	l2	1260-1	250.000	0.000	100.0#	0	-2.75#
10	l2	1260-2	250.000	0.000	100.0#	0	-2.89#
11	l2	1260-3	250.000	0.000	100.0#	0	-3.21#
12	l2	1260-4	250.000	0.000	100.0#	0	-3.36#
13	l2	1260-5	250.000	0.000	100.0#	0	-3.51#
15	l3	1221-2	250.000	0.000	100.0#	0	-1.56#
16	l3	1221-3	250.000	0.000	100.0#	0	-1.62#
17	l3	1221-4	250.000	0.000	100.0#	0	-1.64#

Evaluate Continuing Calibration Report

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 28 Aug 2020 10:40 pm
Operator : pest2:kb
Sample   : cicv4268,42e,,9834
Misc   : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:57:42 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
18	l4	1254-1	250.000	0.000	100.0#	0	-2.37#
19	l4	1254-2	250.000	0.000	100.0#	0	-2.48#
20	l4	1254-3	250.000	0.000	100.0#	0	-2.67#
21	l4	1254-4	250.000	0.000	100.0#	0	-2.80#
22	l4	1254-5	250.000	0.000	100.0#	0	-3.03#
35	l7	1248-1	250.000	0.000	100.0#	0	-1.97#
36	l7	1248-2	250.000	0.000	100.0#	0	-2.11#
37	l7	1248-3	250.000	0.000	100.0#	0	-2.20#
38	l7	1248-4	250.000	0.000	100.0#	0	-2.39#
39	l7	1248-5	250.000	0.000	100.0#	0	-2.40#
41	l5	1232-1	250.000	0.000	100.0#	0	-1.64#
42	l5	1232-2	250.000	0.000	100.0#	0	-1.78#
43	l5	1232-3	250.000	0.000	100.0#	0	-1.98#
44	l5	1232-4	250.000	0.000	100.0#	0	-2.03#
45	l5	1232-5	250.000	0.000	100.0#	0	-2.39#
46	l8	1262-1	250.000	0.000	100.0#	0	-2.89#
47	l8	1262-2	250.000	0.000	100.0#	0	-3.08#
48	l8	1262-3	250.000	0.000	100.0#	0	-3.21#
49	l8	1262-4	250.000	0.000	100.0#	0	-3.36#
50	l8	1262-5	250.000	0.000	100.0#	0	-3.84#

Signal #2

4	l1	1016-1	250.000	0.000	100.0#	0	-1.85#
5	l1	1016-2	250.000	0.000	100.0#	0	-2.02#
6	l1	1016-3	250.000	0.000	100.0#	0	-2.23#
7	l1	1016-4	250.000	0.000	100.0#	0	-2.29#
8	l1	1016-5	250.000	0.000	100.0#	0	-2.50#
9	l2	1260-1	250.000	0.000	100.0#	0	-3.12#
10	l2	1260-2	250.000	0.000	100.0#	0	-3.23#
11	l2	1260-3	250.000	0.000	100.0#	0	-3.62#

Evaluate Continuing Calibration Report

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 28 Aug 2020 10:40 pm
Operator : pest2:kb
Sample   : cicv4268,42e,,9834
Misc   : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:57:42 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
12 l2	1260-4	250.000	0.000	100.0#	0	-3.75#
13 l2	1260-5	250.000	0.000	100.0#	0	-3.96#
15 l3	1221-2	250.000	0.000	100.0#	0	-1.76#
16 l3	1221-3	250.000	0.000	100.0#	0	-1.83#
17 l3	1221-4	250.000	0.000	100.0#	0	-1.85#
18 l4	1254-1	250.000	0.000	100.0#	0	-2.71#
19 l4	1254-2	250.000	0.000	100.0#	0	-2.79#
20 l4	1254-3	250.000	0.000	100.0#	0	-3.03#
21 l4	1254-4	250.000	0.000	100.0#	0	-3.14#
22 l4	1254-5	250.000	0.000	100.0#	0	-3.42#
35 l7	1248-1	250.000	0.000	100.0#	0	-2.22#
36 l7	1248-2	250.000	0.000	100.0#	0	-2.38#
37 l7	1248-3	250.000	0.000	100.0#	0	-2.51#
38 l7	1248-4	250.000	0.000	100.0#	0	-2.68#
39 l7	1248-5	250.000	0.000	100.0#	0	-2.71#
41 l5	1232-1	250.000	0.000	100.0#	0	-1.85#
42 l5	1232-2	250.000	0.000	100.0#	0	-2.03#
43 l5	1232-3	250.000	0.000	100.0#	0	-2.23#
44 l5	1232-4	250.000	0.000	100.0#	0	-2.29#
45 l5	1232-5	250.000	0.000	100.0#	0	-2.68#
46 l8	1262-1	250.000	0.000	100.0#	0	-3.23#
47 l8	1262-2	250.000	0.000	100.0#	0	-3.46#
48 l8	1262-3	250.000	0.000	100.0#	0	-3.62#
49 l8	1262-4	250.000	0.000	100.0#	0	-3.75#
50 l8	1262-5	250.000	0.000	100.0#	0	-4.28#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:40 pm
Operator : pest2:kb
Sample : cicv4268,42e,,9834
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:57:42 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.210	1.265	136.9E6	50478222	25.000	25.000
14) i	2154_1br2nb	1.210	1.265	136.9E6	50478222	25.000	25.000
23) i	4268_1br2nb	1.210	1.265	136.9E6	50478222	25.000	25.000
34) i	1248_1br2nb	1.210	1.265	136.9E6	50478222	25.000	25.000
40) i	3262_1br2nb	1.210	1.265	136.9E6	50478222	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.500	1.646	123.3E6	42562674	16.614	15.533
Spiked Amount	20.000	Range 30 - 150		Recovery =		83.07%	77.66%
3) s	Decachlorobi	4.101	4.617	324.6E6	98079882	54.369	46.981
Spiked Amount	20.000	Range 30 - 150		Recovery =		271.84%#	234.91%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:40 pm
Operator : pest2:kb
Sample : cicv4268,42e,,9834
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:57:42 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	1.641	1.852	25710700	9577825	254.662	252.763
25) l6	1242-2	1.785	2.026	57791827	21504734	265.874	252.113
26) l6	1242-3	1.976	2.231	116.2E6	41169754	252.567	252.792
27) l6	1242-4	2.032	2.292	47945277	16139262	261.847	241.895
28) l6	1242-5	2.389	2.684	37541425	13358868	251.767	248.121
Sum	1242-1			285.2E6	101.8E6	1286.717	1247.685
Average	1242-1					257.343	249.537
29) l9	1268-1	3.529	3.953	262.9E6	83696987	259.765	253.234
30) l9	1268-2	3.550	3.980	244.8E6	76337847	259.656	254.727
31) l9	1268-3	3.653	4.124	190.0E6	64407136	263.866	260.999
32) l9	1268-4	3.842	4.277	84469922	27403452	251.538	248.463
33) l9	1268-5	3.997	4.465	591.2E6	182.9E6	257.182	252.195
Sum	1268-1			1373.4E6	434.8E6	1292.006	1269.618
Average	1268-1					258.401	253.924
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:40 pm
Operator : pest2:kb
Sample : cicv4268,42e,,9834
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:57:42 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

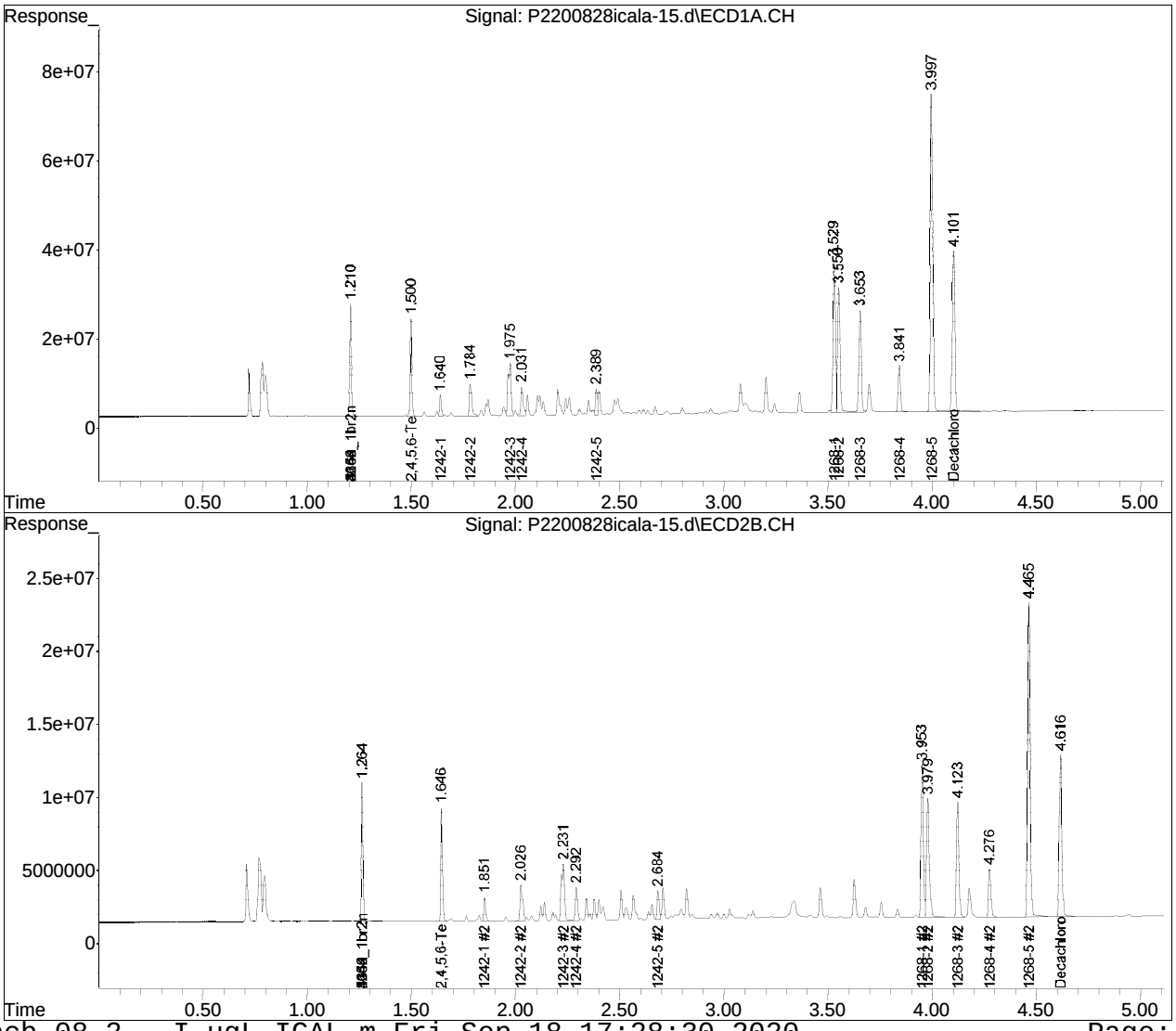
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:40 pm
Operator : pest2:kb
Sample : cicv4268,42e,,9834
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:57:42 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest2\200828icalLVI\	QMethod	: P2_pcb_08_28_20_LVI_ugL_
Data File	: P2200828icala-15.d	Operator	: pest2:kb
Date Inj'd	: 8/28/2020 10:40 pm	Instrument	: PEST 2
Sample	: cicv4268,42e,,9834	Quant Date	: 9/15/2020 11:57 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 28 Aug 2020 10:47 pm
Operator : pest2:kb
Sample   : cicv3262,42e,,9817
Misc   : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:58:37 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	25.000	25.000	0.0	93	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	16.000	17.092	-6.8	97	0.00
3	s	Decachlorobiphenyl	32.000	34.907	-9.1	100	0.00
14	i	2154_1br2nb	25.000	25.000	0.0	98	0.00
23	i	4268_1br2nb	25.000	25.000	0.0	93	0.00
34	i	1248_1br2nb	25.000	25.000	0.0	95	0.00
40	i	3262_1br2nb	25.000	25.000	0.0	95	0.00
41	l5	1232-1	250.000	276.367	-10.5	105	0.00
42	l5	1232-2	250.000	252.357	-0.9	96	0.00
43	l5	1232-3	250.000	249.963	0.0	95	0.00
44	l5	1232-4	250.000	242.923	2.8	92	0.00
45	l5	1232-5	250.000	250.557	-0.2	95	0.00
46	l8	1262-1	250.000	260.048	-4.0	99	0.00
47	l8	1262-2	250.000	257.527	-3.0	98	0.00
48	l8	1262-3	250.000	252.152	-0.9	96	0.00
49	l8	1262-4	250.000	259.585	-3.8	98	0.00
50	l8	1262-5	250.000	257.716	-3.1	98	0.00

Signal #2

1	i	1660_1br2nb	25.000	25.000	0.0	95	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl	16.000	16.243	-1.5	97	0.00
3	s	Decachlorobiphenyl	32.000	32.649	-2.0	100	0.00
14	i	2154_1br2nb	25.000	25.000	0.0	97	0.00

Evaluate Continuing Calibration Report

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 28 Aug 2020 10:47 pm
Operator : pest2:kb
Sample   : cicv3262,42e,,9817
Misc   : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:58:37 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
23	i	4268_1br2nb	25.000	25.000	0.0	92	0.00
34	i	1248_1br2nb	25.000	25.000	0.0	94	0.00
40	i	3262_1br2nb	25.000	25.000	0.0	93	0.00
41	l5	1232-1	250.000	281.143	-12.5	105	0.00
42	l5	1232-2	250.000	255.957	-2.4	96	0.00
43	l5	1232-3	250.000	254.130	-1.7	95	0.00
44	l5	1232-4	250.000	254.117	-1.6	95	0.00
45	l5	1232-5	250.000	251.167	-0.5	94	0.00
46	l8	1262-1	250.000	264.887	-6.0	99	0.00
47	l8	1262-2	250.000	265.538	-6.2	99	0.00
48	l8	1262-3	250.000	256.783	-2.7	96	0.00
49	l8	1262-4	250.000	264.260	-5.7	99	0.00
50	l8	1262-5	250.000	262.490	-5.0	98	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1	250.000	0.000	100.0#	0	-1.64#
5	l1	1016-2	250.000	0.000	100.0#	0	-1.78#
6	l1	1016-3	250.000	0.000	100.0#	0	-1.98#
7	l1	1016-4	250.000	0.000	100.0#	0	-2.03#
8	l1	1016-5	250.000	0.000	100.0#	0	-2.20#
9	l2	1260-1	250.000	0.000	100.0#	0	-2.75#
10	l2	1260-2	250.000	0.000	100.0#	0	-2.89#
11	l2	1260-3	250.000	0.000	100.0#	0	-3.21#
12	l2	1260-4	250.000	0.000	100.0#	0	-3.36#
13	l2	1260-5	250.000	0.000	100.0#	0	-3.51#
15	l3	1221-2	250.000	0.000	100.0#	0	-1.56#
16	l3	1221-3	250.000	0.000	100.0#	0	-1.62#
17	l3	1221-4	250.000	0.000	100.0#	0	-1.64#

Evaluate Continuing Calibration Report

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 28 Aug 2020 10:47 pm
Operator : pest2:kb
Sample   : cicv3262,42e,,9817
Misc   : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:58:37 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
18	l4	1254-1	250.000	0.000	100.0#	0	-2.37#
19	l4	1254-2	250.000	0.000	100.0#	0	-2.48#
20	l4	1254-3	250.000	0.000	100.0#	0	-2.67#
21	l4	1254-4	250.000	0.000	100.0#	0	-2.80#
22	l4	1254-5	250.000	0.000	100.0#	0	-3.03#
24	l6	1242-1	250.000	0.000	100.0#	0	-1.64#
25	l6	1242-2	250.000	0.000	100.0#	0	-1.78#
26	l6	1242-3	250.000	0.000	100.0#	0	-1.98#
27	l6	1242-4	250.000	0.000	100.0#	0	-2.03#
28	l6	1242-5	250.000	0.000	100.0#	0	-2.39#
29	l9	1268-1	250.000	0.000	100.0#	0	-3.53#
30	l9	1268-2	250.000	0.000	100.0#	0	-3.55#
31	l9	1268-3	250.000	0.000	100.0#	0	-3.65#
32	l9	1268-4	250.000	0.000	100.0#	0	-3.84#
33	l9	1268-5	250.000	0.000	100.0#	0	-4.00#
35	l7	1248-1	250.000	0.000	100.0#	0	-1.97#
36	l7	1248-2	250.000	0.000	100.0#	0	-2.11#
37	l7	1248-3	250.000	0.000	100.0#	0	-2.20#
38	l7	1248-4	250.000	0.000	100.0#	0	-2.39#
39	l7	1248-5	250.000	0.000	100.0#	0	-2.40#

Signal #2

4	l1	1016-1	250.000	0.000	100.0#	0	-1.85#
5	l1	1016-2	250.000	0.000	100.0#	0	-2.02#
6	l1	1016-3	250.000	0.000	100.0#	0	-2.23#
7	l1	1016-4	250.000	0.000	100.0#	0	-2.29#
8	l1	1016-5	250.000	0.000	100.0#	0	-2.50#
9	l2	1260-1	250.000	0.000	100.0#	0	-3.12#
10	l2	1260-2	250.000	0.000	100.0#	0	-3.23#
11	l2	1260-3	250.000	0.000	100.0#	0	-3.62#

Evaluate Continuing Calibration Report

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 28 Aug 2020 10:47 pm
Operator : pest2:kb
Sample   : cicv3262,42e,,9817
Misc   : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:58:37 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
12 l2	1260-4	250.000	0.000	100.0#	0	-3.75#
13 l2	1260-5	250.000	0.000	100.0#	0	-3.96#
15 l3	1221-2	250.000	0.000	100.0#	0	-1.76#
16 l3	1221-3	250.000	0.000	100.0#	0	-1.83#
17 l3	1221-4	250.000	0.000	100.0#	0	-1.85#
18 l4	1254-1	250.000	0.000	100.0#	0	-2.71#
19 l4	1254-2	250.000	0.000	100.0#	0	-2.79#
20 l4	1254-3	250.000	0.000	100.0#	0	-3.03#
21 l4	1254-4	250.000	0.000	100.0#	0	-3.14#
22 l4	1254-5	250.000	0.000	100.0#	0	-3.42#
24 l6	1242-1	250.000	0.000	100.0#	0	-1.85#
25 l6	1242-2	250.000	0.000	100.0#	0	-2.02#
26 l6	1242-3	250.000	0.000	100.0#	0	-2.23#
27 l6	1242-4	250.000	0.000	100.0#	0	-2.29#
28 l6	1242-5	250.000	0.000	100.0#	0	-2.68#
29 l9	1268-1	250.000	0.000	100.0#	0	-3.95#
30 l9	1268-2	250.000	0.000	100.0#	0	-3.98#
31 l9	1268-3	250.000	0.000	100.0#	0	-4.12#
32 l9	1268-4	250.000	0.000	100.0#	0	-4.28#
33 l9	1268-5	250.000	0.000	100.0#	0	-4.46#
35 l7	1248-1	250.000	0.000	100.0#	0	-2.22#
36 l7	1248-2	250.000	0.000	100.0#	0	-2.38#
37 l7	1248-3	250.000	0.000	100.0#	0	-2.51#
38 l7	1248-4	250.000	0.000	100.0#	0	-2.68#
39 l7	1248-5	250.000	0.000	100.0#	0	-2.71#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:47 pm
Operator : pest2:kb
Sample : cicv3262,42e,,9817
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:58:37 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.211	1.265	135.2E6	48546060	25.000	25.000
14) i	2154_1br2nb	1.211	1.265	135.2E6	48546060	25.000	25.000
23) i	4268_1br2nb	1.211	1.265	135.2E6	48546060	25.000	25.000
34) i	1248_1br2nb	1.211	1.265	135.2E6	48546060	25.000	25.000
40) i	3262_1br2nb	1.211	1.265	135.2E6	48546060	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.500	1.646	125.3E6	42803493	17.092	16.243
Spiked Amount	20.000	Range 30 - 150		Recovery =		85.46%	81.21%
3) s	Decachlorobi	4.101	4.615	205.9E6	65550320	34.907	32.649
Spiked Amount	20.000	Range 30 - 150		Recovery =		174.53%#	163.25%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:47 pm
Operator : pest2:kb
Sample : cicv3262,42e,,9817
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:58:37 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:47 pm
Operator : pest2:kb
Sample : cicv3262,42e,,9817
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:58:37 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1248-1					0.000	0.000
41) l5 1232-1	1.641	1.852	40213566	14974747	276.367	281.143
42) l5 1232-2	1.785	2.026	33181241	13820797	252.357	255.957
43) l5 1232-3	1.976	2.231	68490747	24658089	249.963	254.130
44) l5 1232-4	2.032	2.292	27456926	10081859	242.923	254.117
45) l5 1232-5	2.389	2.684	20448125	7282224	250.557	251.167
Sum 1232-1			189.8E6	70817716	1272.166	1296.514
Average 1232-1					254.433	259.303
46) l8 1262-1	2.887	3.226	104.5E6	31875071	260.048	264.887
47) l8 1262-2	3.081	3.463	144.3E6	44584482	257.527	265.538
48) l8 1262-3	3.206	3.624	116.7E6	38639067	252.152	256.783
49) l8 1262-4	3.363	3.754	235.3E6	73993932	259.585	264.260
50) l8 1262-5	3.841	4.276	76344304	26616404	257.716	262.490
Sum 1262-1			677.2E6	215.7E6	1287.027	1313.958
Average 1262-1					257.405	262.792

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1			677.2E6	215.7E6	1287.027	1313.958
Average 1262-1					257.405	262.792

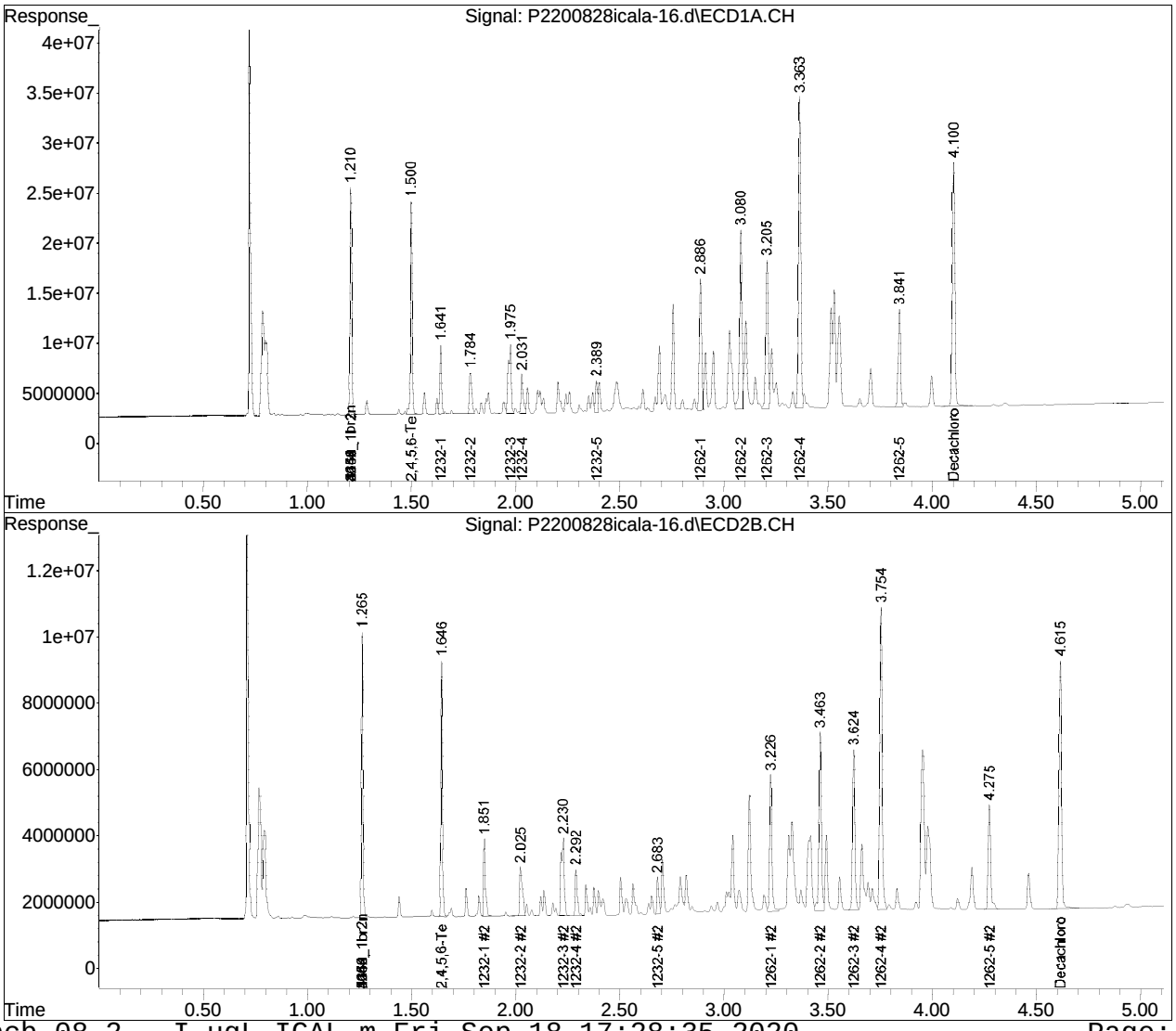
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:47 pm
Operator : pest2:kb
Sample : cicv3262,42e,,9817
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:58:37 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest2\200828icalLVI\	QMethod	: P2_pcb_08_28_20_LVI_ugL_
Data File	: P2200828icala-16.d	Operator	: pest2:kb
Date Inj'd	: 8/28/2020 10:47 pm	Instrument	: PEST 2
Sample	: cicv3262,42e,,9817	Quant Date	: 9/15/2020 11:57 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 28 Aug 2020 10:55 pm
Operator : pest2:kb
Sample   : cicv1248,42e,,9819
Misc   : WG1411875,,
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:59:40 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	25.000	25.000	0.0	94	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	16.000	16.885	-5.5	97	0.00
3	s	Decachlorobiphenyl	32.000	30.262	5.4	87	0.00
14	i	2154_1br2nb	25.000	25.000	0.0	99	0.00
23	i	4268_1br2nb	25.000	25.000	0.0	94	0.00
34	i	1248_1br2nb	25.000	25.000	0.0	96	0.00
35	l7	1248-1	250.000	211.896	15.2	81	0.00
36	l7	1248-2	250.000	221.248	11.5	85	0.00
37	l7	1248-3	250.000	217.656	12.9	83	0.00
38	l7	1248-4	250.000	218.673	12.5	84	0.00
39	l7	1248-5	250.000	219.147	12.3	84	0.00
40	i	3262_1br2nb	25.000	25.000	0.0	96	0.00

Signal #2

1	i	1660_1br2nb	25.000	25.000	0.0	94	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl	16.000	16.848	-5.3	99	0.00
3	s	Decachlorobiphenyl	32.000	29.174	8.8	88	0.00
14	i	2154_1br2nb	25.000	25.000	0.0	95	0.00
23	i	4268_1br2nb	25.000	25.000	0.0	90	0.00
34	i	1248_1br2nb	25.000	25.000	0.0	93	0.00
35	l7	1248-1	250.000	218.268	12.7	81	0.00
36	l7	1248-2	250.000	224.823	10.1	83	0.00

Evaluate Continuing Calibration Report

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 28 Aug 2020 10:55 pm
Operator : pest2:kb
Sample   : cicv1248,42e,,9819
Misc   : WG1411875,,
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:59:40 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
37	l7	1248-3	250.000	224.869	10.1	83	0.00
38	l7	1248-4	250.000	225.036	10.0	83	0.00
39	l7	1248-5	250.000	225.578	9.8	84	0.00
40	i	3262_1br2nb	25.000	25.000	0.0	92	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1	250.000	0.000	100.0#	0	-1.64#
5	l1	1016-2	250.000	0.000	100.0#	0	-1.78#
6	l1	1016-3	250.000	0.000	100.0#	0	-1.98#
7	l1	1016-4	250.000	0.000	100.0#	0	-2.03#
8	l1	1016-5	250.000	0.000	100.0#	0	-2.20#
9	l2	1260-1	250.000	0.000	100.0#	0	-2.75#
10	l2	1260-2	250.000	0.000	100.0#	0	-2.89#
11	l2	1260-3	250.000	0.000	100.0#	0	-3.21#
12	l2	1260-4	250.000	0.000	100.0#	0	-3.36#
13	l2	1260-5	250.000	0.000	100.0#	0	-3.51#
15	l3	1221-2	250.000	0.000	100.0#	0	-1.56#
16	l3	1221-3	250.000	0.000	100.0#	0	-1.62#
17	l3	1221-4	250.000	0.000	100.0#	0	-1.64#
18	l4	1254-1	250.000	0.000	100.0#	0	-2.37#
19	l4	1254-2	250.000	0.000	100.0#	0	-2.48#
20	l4	1254-3	250.000	0.000	100.0#	0	-2.67#
21	l4	1254-4	250.000	0.000	100.0#	0	-2.80#
22	l4	1254-5	250.000	0.000	100.0#	0	-3.03#
24	l6	1242-1	250.000	0.000	100.0#	0	-1.64#
25	l6	1242-2	250.000	0.000	100.0#	0	-1.78#
26	l6	1242-3	250.000	0.000	100.0#	0	-1.98#
27	l6	1242-4	250.000	0.000	100.0#	0	-2.03#
28	l6	1242-5	250.000	0.000	100.0#	0	-2.39#

Evaluate Continuing Calibration Report

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 28 Aug 2020 10:55 pm
Operator : pest2:kb
Sample   : cicv1248,42e,,9819
Misc   : WG1411875,,
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:59:40 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
29	l9	1268-1	250.000	0.000	100.0#	0	-3.53#
30	l9	1268-2	250.000	0.000	100.0#	0	-3.55#
31	l9	1268-3	250.000	0.000	100.0#	0	-3.65#
32	l9	1268-4	250.000	0.000	100.0#	0	-3.84#
33	l9	1268-5	250.000	0.000	100.0#	0	-4.00#
41	l5	1232-1	250.000	0.000	100.0#	0	-1.64#
42	l5	1232-2	250.000	0.000	100.0#	0	-1.78#
43	l5	1232-3	250.000	0.000	100.0#	0	-1.98#
44	l5	1232-4	250.000	0.000	100.0#	0	-2.03#
45	l5	1232-5	250.000	0.000	100.0#	0	-2.39#
46	l8	1262-1	250.000	0.000	100.0#	0	-2.89#
47	l8	1262-2	250.000	0.000	100.0#	0	-3.08#
48	l8	1262-3	250.000	0.000	100.0#	0	-3.21#
49	l8	1262-4	250.000	0.000	100.0#	0	-3.36#
50	l8	1262-5	250.000	0.000	100.0#	0	-3.84#

Signal #2

4	l1	1016-1	250.000	0.000	100.0#	0	-1.85#
5	l1	1016-2	250.000	0.000	100.0#	0	-2.02#
6	l1	1016-3	250.000	0.000	100.0#	0	-2.23#
7	l1	1016-4	250.000	0.000	100.0#	0	-2.29#
8	l1	1016-5	250.000	0.000	100.0#	0	-2.50#
9	l2	1260-1	250.000	0.000	100.0#	0	-3.12#
10	l2	1260-2	250.000	0.000	100.0#	0	-3.23#
11	l2	1260-3	250.000	0.000	100.0#	0	-3.62#
12	l2	1260-4	250.000	0.000	100.0#	0	-3.75#
13	l2	1260-5	250.000	0.000	100.0#	0	-3.96#
15	l3	1221-2	250.000	0.000	100.0#	0	-1.76#
16	l3	1221-3	250.000	0.000	100.0#	0	-1.83#
17	l3	1221-4	250.000	0.000	100.0#	0	-1.85#

Evaluate Continuing Calibration Report

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 28 Aug 2020 10:55 pm
Operator : pest2:kb
Sample   : cicv1248,42e,,9819
Misc   : WG1411875,,
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:59:40 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
18	l4	1254-1	250.000	0.000	100.0#	0	-2.71#
19	l4	1254-2	250.000	0.000	100.0#	0	-2.79#
20	l4	1254-3	250.000	0.000	100.0#	0	-3.03#
21	l4	1254-4	250.000	0.000	100.0#	0	-3.14#
22	l4	1254-5	250.000	0.000	100.0#	0	-3.42#
24	l6	1242-1	250.000	0.000	100.0#	0	-1.85#
25	l6	1242-2	250.000	0.000	100.0#	0	-2.02#
26	l6	1242-3	250.000	0.000	100.0#	0	-2.23#
27	l6	1242-4	250.000	0.000	100.0#	0	-2.29#
28	l6	1242-5	250.000	0.000	100.0#	0	-2.68#
29	l9	1268-1	250.000	0.000	100.0#	0	-3.95#
30	l9	1268-2	250.000	0.000	100.0#	0	-3.98#
31	l9	1268-3	250.000	0.000	100.0#	0	-4.12#
32	l9	1268-4	250.000	0.000	100.0#	0	-4.28#
33	l9	1268-5	250.000	0.000	100.0#	0	-4.46#
41	l5	1232-1	250.000	0.000	100.0#	0	-1.85#
42	l5	1232-2	250.000	0.000	100.0#	0	-2.03#
43	l5	1232-3	250.000	0.000	100.0#	0	-2.23#
44	l5	1232-4	250.000	0.000	100.0#	0	-2.29#
45	l5	1232-5	250.000	0.000	100.0#	0	-2.68#
46	l8	1262-1	250.000	0.000	100.0#	0	-3.23#
47	l8	1262-2	250.000	0.000	100.0#	0	-3.46#
48	l8	1262-3	250.000	0.000	100.0#	0	-3.62#
49	l8	1262-4	250.000	0.000	100.0#	0	-3.75#
50	l8	1262-5	250.000	0.000	100.0#	0	-4.28#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:55 pm
Operator : pest2:kb
Sample : cicv1248,42e,,9819
Misc : WG1411875,,
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:59:40 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.211	1.265	136.9E6	47780025	25.000	25.000
14) i	2154_1br2nb	1.211	1.265	136.9E6	47780025	25.000	25.000
23) i	4268_1br2nb	1.211	1.265	136.9E6	47780025	25.000	25.000
34) i	1248_1br2nb	1.211	1.265	136.9E6	47780025	25.000	25.000
40) i	3262_1br2nb	1.211	1.265	136.9E6	47780025	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.501	1.647	125.3E6	43698234	16.885	16.848
Spiked Amount	20.000	Range 30 - 150		Recovery =		84.43%	84.24%
3) s	Decachlorobi	4.101	4.616	180.7E6	57650466	30.262	29.174
Spiked Amount	20.000	Range 30 - 150		Recovery =		151.31%#	145.87%
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:55 pm
Operator : pest2:kb
Sample : cicv1248,42e,,9819
Misc : WG1411875,,
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:59:40 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	1.968	2.222	62905154	23331390	211.896	218.268
36) l7	1248-2	2.107	2.378	79395109	15428235	221.248M1	224.823
37) l7	1248-3	2.205	2.507	68559344	18983853	217.656	224.869
38) l7	1248-4	2.390	2.684	62137008	21088440	218.673	225.036
39) l7	1248-5	2.403	2.708	53672693	24190487	219.147	225.578
Sum	1248-1			326.7E6	103.0E6	1088.620	1118.575

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:55 pm
Operator : pest2:kb
Sample : cicv1248,42e,,9819
Misc : WG1411875,,
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:59:40 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1248-1					217.724	223.715
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

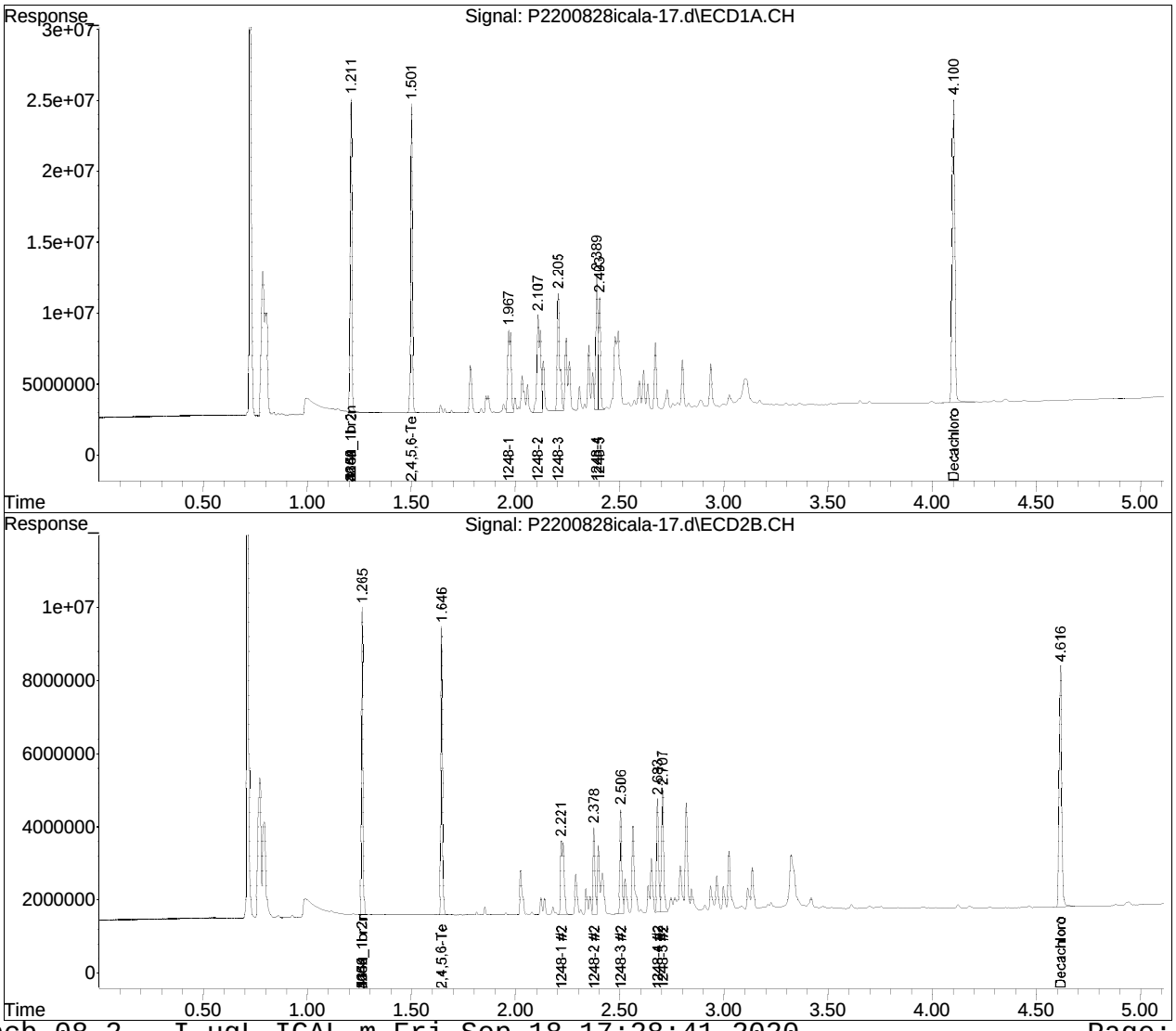
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Aug 2020 10:55 pm
Operator : pest2:kb
Sample : cicv1248,42e,,9819
Misc : WG1411875,,
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 15 11:59:40 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

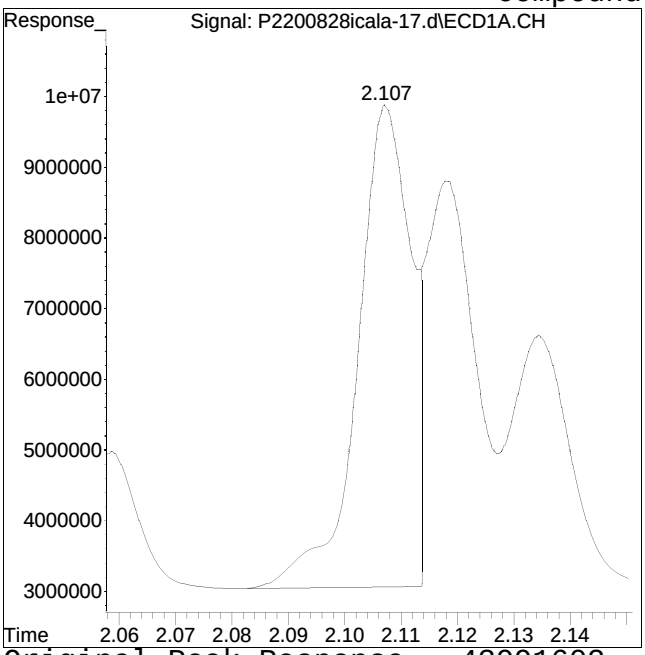
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



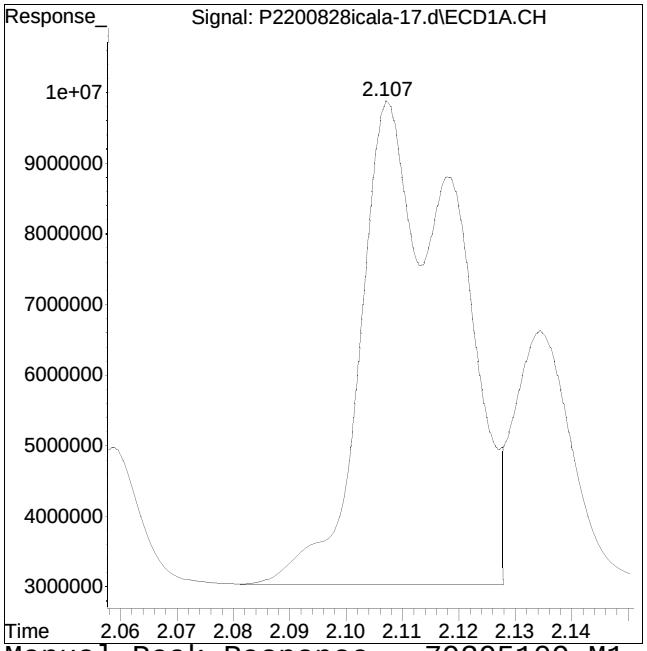
Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-17.d Operator : pest2:kb
Date Inj'd : 8/28/2020 10:55 pm Instrument : PEST 2
Sample : cicv1248,42e,,9819 Quant Date : 9/15/2020 11:58 am

Compound #36: 1248-2



Original Peak Response = 43991602



Manual Peak Response = 79395109 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Continuing Calibration Report

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 17 Sep 2020   3:06 pm
Operator : pest2:kb
Sample   : cicv2154,42e,, rr 9816
Misc   : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 15:31:10 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	25.000	25.000	0.0	106	-0.01
2	s	2,4,5,6-Tetrachloro-m-xylen	16.000	18.355	-14.7	119	0.00
3	s	Decachlorobiphenyl	32.000	28.157	12.0	91	0.00
14	i	2154_1br2nb	25.000	25.000	0.0	112	-0.01
15	l3	1221-2	250.000	288.686	-15.5	129	0.00
16	l3	1221-3	250.000	292.448	-17.0	131	0.00
17	l3	1221-4	250.000	290.901	-16.4	130	0.00
18	l4	1254-1	250.000	270.133	-8.1	121	0.00
19	l4	1254-2	250.000	266.073	-6.4	119	0.00
20	l4	1254-3	250.000	293.163	-17.3	131	0.00
21	l4	1254-4	250.000	260.617	-4.2	116	0.00
22	l4	1254-5	250.000	248.431	0.6	111	0.00
23	i	4268_1br2nb	25.000	25.000	0.0	105	-0.01
34	i	1248_1br2nb	25.000	25.000	0.0	107	-0.01
40	i	3262_1br2nb	25.000	25.000	0.0	108	-0.01

Signal #2

52	i	1660_1br2nb #2	25.000	25.000	0.0	103	-0.01
53	s	2,4,5,6-Tetrachloro-m-xylen	16.000	16.980	-6.1	109	0.00
54	s	Decachlorobiphenyl #2	32.000	30.099	5.9	100	0.02
65	i	2154_1br2nb #2	25.000	25.000	0.0	105	-0.01
66	l3	1221-2 #2	250.000	289.900	-16.0	121	0.00
67	l3	1221-3 #2	250.000	315.355	-26.1#	132	0.00
68	l3	1221-4 #2	250.000	288.697	-15.5	121	0.00

Evaluate Continuing Calibration Report

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 17 Sep 2020   3:06 pm
Operator : pest2:kb
Sample   : cicv2154,42e,, rr 9816
Misc   : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 15:31:10 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
69	l4	1254-1 #2	250.000	286.779	-14.7	120	0.00
70	l4	1254-2 #2	250.000	239.275	4.3	100	0.00
71	l4	1254-3 #2	250.000	274.670	-9.9	115	0.00
72	l4	1254-4 #2	250.000	276.326	-10.5	116	0.00
73	l4	1254-5 #2	250.000	238.385	4.6	100	0.00
74	i	4268_1br2nb #2	25.000	25.000	0.0	99	-0.01
85	i	1248_1br2nb #2	25.000	25.000	0.0	102	-0.01
91	i	3262_1br2nb #2	25.000	25.000	0.0	101	-0.01

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1	250.000	0.000	100.0#	0	-1.64#
5	l1	1016-2	250.000	0.000	100.0#	0	-1.78#
6	l1	1016-3	250.000	0.000	100.0#	0	-1.98#
7	l1	1016-4	250.000	0.000	100.0#	0	-2.03#
8	l1	1016-5	250.000	0.000	100.0#	0	-2.20#
9	l2	1260-1	250.000	0.000	100.0#	0	-2.75#
10	l2	1260-2	250.000	0.000	100.0#	0	-2.89#
11	l2	1260-3	250.000	0.000	100.0#	0	-3.21#
12	l2	1260-4	250.000	0.000	100.0#	0	-3.36#
13	l2	1260-5	250.000	0.000	100.0#	0	-3.51#
24	l6	1242-1	250.000	0.000	100.0#	0	-1.64#
25	l6	1242-2	250.000	0.000	100.0#	0	-1.78#
26	l6	1242-3	250.000	0.000	100.0#	0	-1.98#
27	l6	1242-4	250.000	0.000	100.0#	0	-2.03#
28	l6	1242-5	250.000	0.000	100.0#	0	-2.39#
29	l9	1268-1	250.000	0.000	100.0#	0	-3.53#
30	l9	1268-2	250.000	0.000	100.0#	0	-3.55#

Evaluate Continuing Calibration Report

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 17 Sep 2020   3:06 pm
Operator : pest2:kb
Sample   : cicv2154,42e,, rr 9816
Misc   : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 15:31:10 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
31	l9	1268-3	250.000	0.000	100.0#	0	-3.65#
32	l9	1268-4	250.000	0.000	100.0#	0	-3.84#
33	l9	1268-5	250.000	0.000	100.0#	0	-4.00#
35	l7	1248-1	250.000	0.000	100.0#	0	-1.97#
36	l7	1248-2	250.000	0.000	100.0#	0	-2.11#
37	l7	1248-3	250.000	0.000	100.0#	0	-2.20#
38	l7	1248-4	250.000	0.000	100.0#	0	-2.39#
39	l7	1248-5	250.000	0.000	100.0#	0	-2.40#
41	l5	1232-1	250.000	0.000	100.0#	0	-1.64#
42	l5	1232-2	250.000	0.000	100.0#	0	-1.78#
43	l5	1232-3	250.000	0.000	100.0#	0	-1.98#
44	l5	1232-4	250.000	0.000	100.0#	0	-2.03#
45	l5	1232-5	250.000	0.000	100.0#	0	-2.39#
46	l8	1262-1	250.000	0.000	100.0#	0	-2.89#
47	l8	1262-2	250.000	0.000	100.0#	0	-3.08#
48	l8	1262-3	250.000	0.000	100.0#	0	-3.21#
49	l8	1262-4	250.000	0.000	100.0#	0	-3.36#
50	l8	1262-5	250.000	0.000	100.0#	0	-3.84#
Signal #2							
55	l1	1016-1 #2	250.000	0.000	100.0#	0	-1.85#
56	l1	1016-2 #2	250.000	0.000	100.0#	0	-2.02#
57	l1	1016-3 #2	250.000	0.000	100.0#	0	-2.23#
58	l1	1016-4 #2	250.000	0.000	100.0#	0	-2.29#
59	l1	1016-5 #2	250.000	0.000	100.0#	0	-2.50#
60	l2	1260-1 #2	250.000	0.000	100.0#	0	-3.12#
61	l2	1260-2 #2	250.000	0.000	100.0#	0	-3.23#
62	l2	1260-3 #2	250.000	0.000	100.0#	0	-3.62#
63	l2	1260-4 #2	250.000	0.000	100.0#	0	-3.75#
64	l2	1260-5 #2	250.000	0.000	100.0#	0	-3.96#

Evaluate Continuing Calibration Report

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 17 Sep 2020   3:06 pm
Operator : pest2:kb
Sample   : cicv2154,42e,, rr 9816
Misc   : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 15:31:10 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
75	l6 1242-1 #2	250.000	0.000	100.0#	0	-1.85#
76	l6 1242-2 #2	250.000	0.000	100.0#	0	-2.02#
77	l6 1242-3 #2	250.000	0.000	100.0#	0	-2.23#
78	l6 1242-4 #2	250.000	0.000	100.0#	0	-2.29#
79	l6 1242-5 #2	250.000	0.000	100.0#	0	-2.68#
80	l9 1268-1 #2	250.000	0.000	100.0#	0	-3.95#
81	l9 1268-2 #2	250.000	0.000	100.0#	0	-3.98#
82	l9 1268-3 #2	250.000	0.000	100.0#	0	-4.12#
83	l9 1268-4 #2	250.000	0.000	100.0#	0	-4.28#
84	l9 1268-5 #2	250.000	0.000	100.0#	0	-4.46#
86	l7 1248-1 #2	250.000	0.000	100.0#	0	-2.22#
87	l7 1248-2 #2	250.000	0.000	100.0#	0	-2.38#
88	l7 1248-3 #2	250.000	0.000	100.0#	0	-2.51#
89	l7 1248-4 #2	250.000	0.000	100.0#	0	-2.68#
90	l7 1248-5 #2	250.000	0.000	100.0#	0	-2.71#
92	l5 1232-1 #2	250.000	0.000	100.0#	0	-1.85#
93	l5 1232-2 #2	250.000	0.000	100.0#	0	-2.03#
94	l5 1232-3 #2	250.000	0.000	100.0#	0	-2.23#
95	l5 1232-4 #2	250.000	0.000	100.0#	0	-2.29#
96	l5 1232-5 #2	250.000	0.000	100.0#	0	-2.68#
97	l8 1262-1 #2	250.000	0.000	100.0#	0	-3.23#
98	l8 1262-2 #2	250.000	0.000	100.0#	0	-3.46#
99	l8 1262-3 #2	250.000	0.000	100.0#	0	-3.62#
100	l8 1262-4 #2	250.000	0.000	100.0#	0	-3.75#
101	l8 1262-5 #2	250.000	0.000	100.0#	0	-4.28#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Sep 2020 3:06 pm
Operator : pest2:kb
Sample : cicv2154,42e,, rr 9816
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 15:31:10 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.198	1.251	153.5E6	52428600	25.000	25.000
14) i	2154_1br2nb	1.198	1.251	153.5E6	52428600	25.000	25.000
23) i	4268_1br2nb	1.198	1.251	153.5E6	52428600	25.000	25.000
34) i	1248_1br2nb	1.198	1.251	153.5E6	52428600	25.000	25.000
40) i	3262_1br2nb	1.198	1.251	153.5E6	52428600	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.491	1.637	152.8E6	48325233	18.355	16.980
Spiked Amount	20.000	Range 30 - 150		Recovery =		91.78%	84.90%
3) s	Decachlorobi	4.108	4.633	188.5E6	65264165	28.157M2	30.099M2
Spiked Amount	20.000	Range 30 - 150		Recovery =		140.79%	150.50%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
15) l3	1221-2	1.556	1.757	23128056	8424992	288.686	289.900
16) l3	1221-3	1.617	1.820	14248816	6008367	292.448M2	315.355M2

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Sep 2020 3:06 pm
Operator : pest2:kb
Sample : cicv2154,42e,, rr 9816
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 15:31:10 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	1.634	1.847	58649655	20109982	290.901M2	288.697M2
Sum	1221-2			96026527	34543341	872.035	893.952
Average	1221-2					290.678	297.984
18) l4	1254-1	2.378	2.708	71327005	29190271	270.133M2	286.779M2
19) l4	1254-2	2.492	2.795	128.8E6	32549467	266.073M2	239.275M2
20) l4	1254-3	2.678	3.027	140.1E6	49668059	293.163M2	274.670M2
21) l4	1254-4	2.807	3.137	97035817	33855894	260.617M2	276.326M2
22) l4	1254-5	3.032	3.415	127.2E6	40047102	248.431M2	238.385M2
Sum	1254-1			564.4E6	185.3E6	1338.416	1315.434
Average	1254-1					267.683	263.087
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Sep 2020 3:06 pm
Operator : pest2:kb
Sample : cicv2154,42e,, rr 9816
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 15:31:10 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Sep 2020 3:06 pm
Operator : pest2:kb
Sample : cicv2154,42e,, rr 9816
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 15:31:10 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

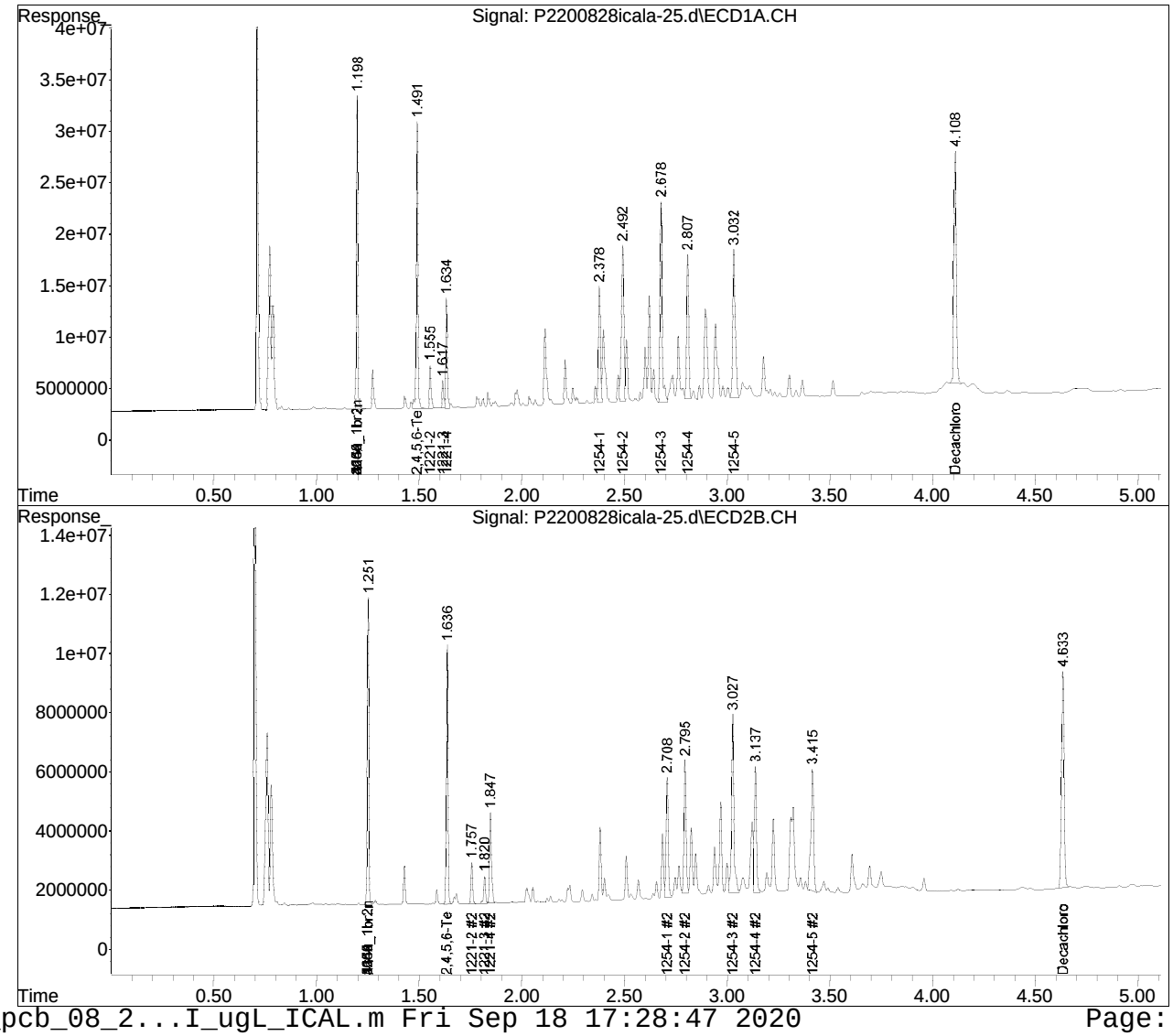
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest2\200828icalLVI\
Data File : P2200828icala-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Sep 2020 3:06 pm
Operator : pest2:kb
Sample : cicv2154,42e,, rr 9816
Misc : WG1411875,, (Sig #1); (Sig #2)
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 18 15:31:10 2020
Quant Method : I:\Pest2\200828icalLVI\P2_pcb_08_28_20_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Tue Sep 15 11:54:18 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

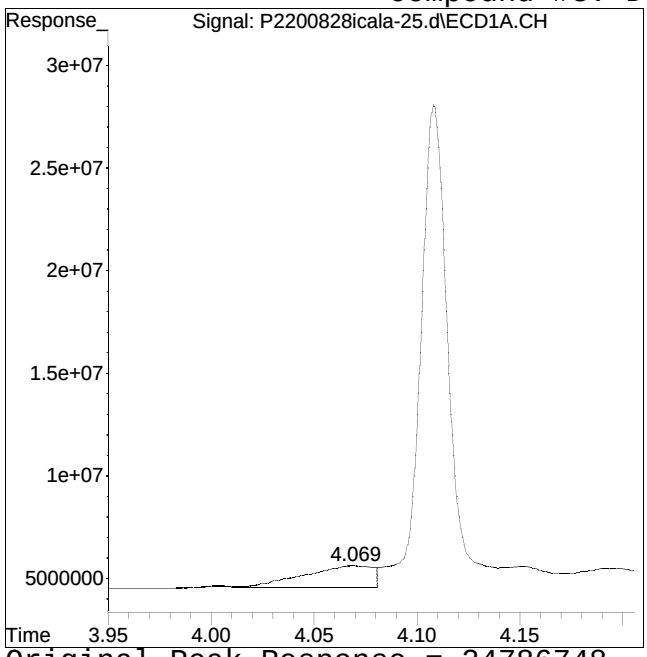
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

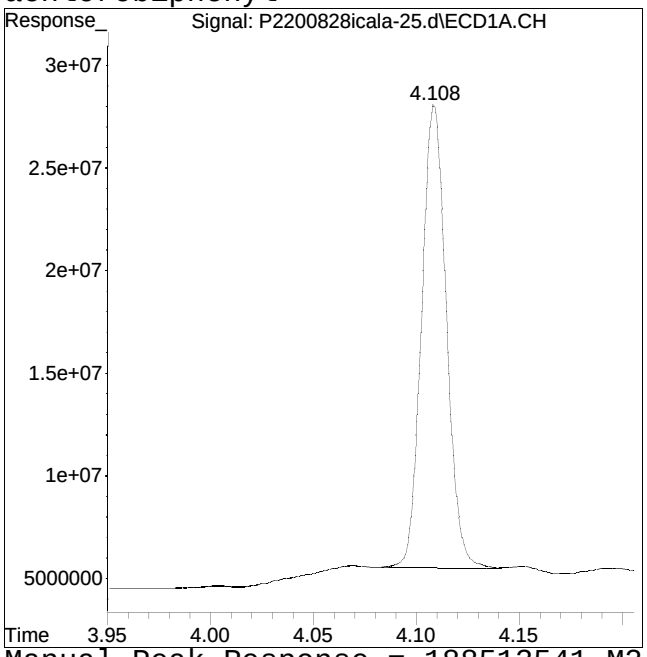


Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-25.d Operator : pest2:kb
Date Inj'd : 9/17/2020 3:06 pm Instrument : PEST 2
Sample : cicv2154,42e,, rr 9816 Quant Date : 9/18/2020 3:27 pm

Compound #3: Decachlorobiphenyl



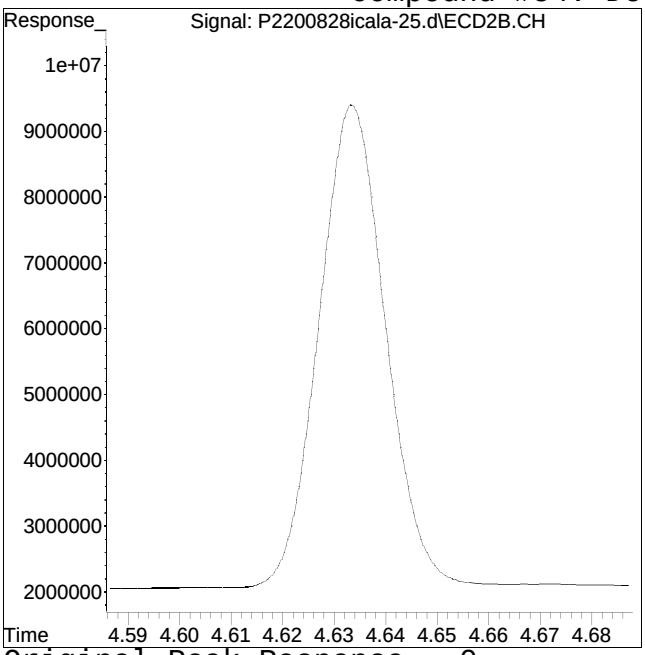


Original Peak Response = 24786748 Manual Peak Response = 188513541 M2
M2 = Peak not found by automatic integration algorithm.

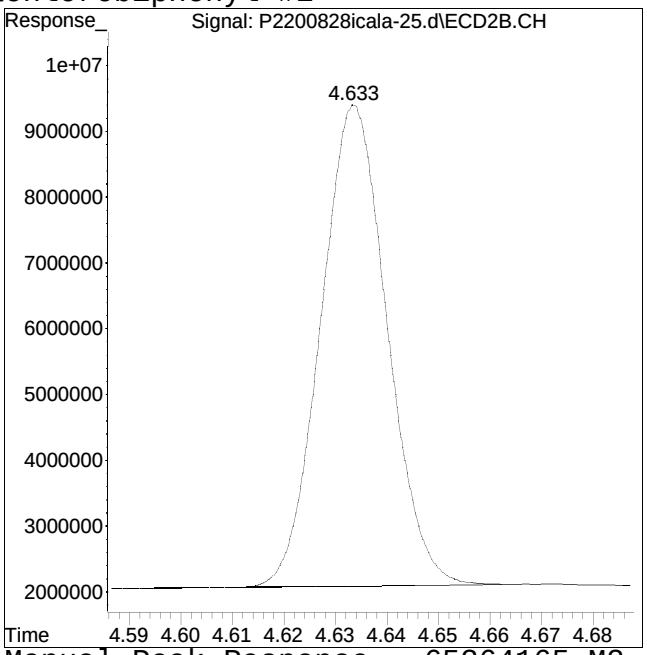
Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-25.d Operator : pest2:kb
Date Inj'd : 9/17/2020 3:06 pm Instrument : PEST 2
Sample : cicv2154,42e,, rr 9816 Quant Date : 9/18/2020 3:27 pm

Compound #54: Decachlorobiphenyl #2



Original Peak Response = 0



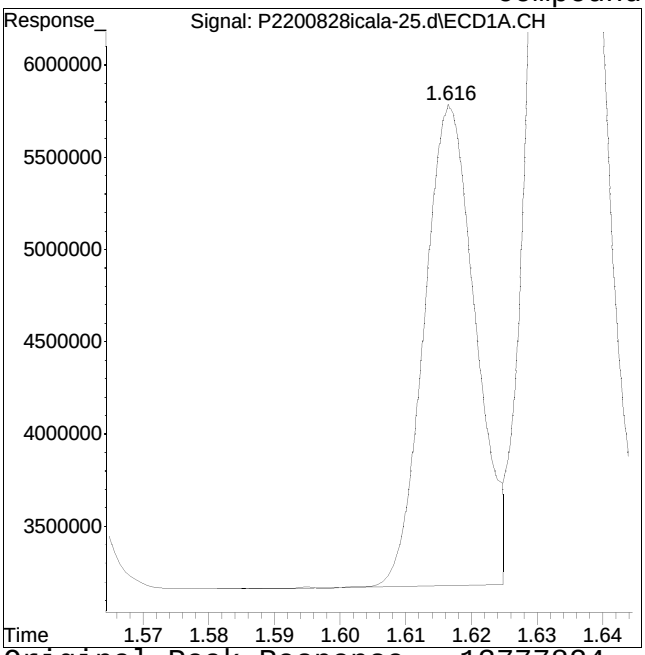
Manual Peak Response = 65264165 M2

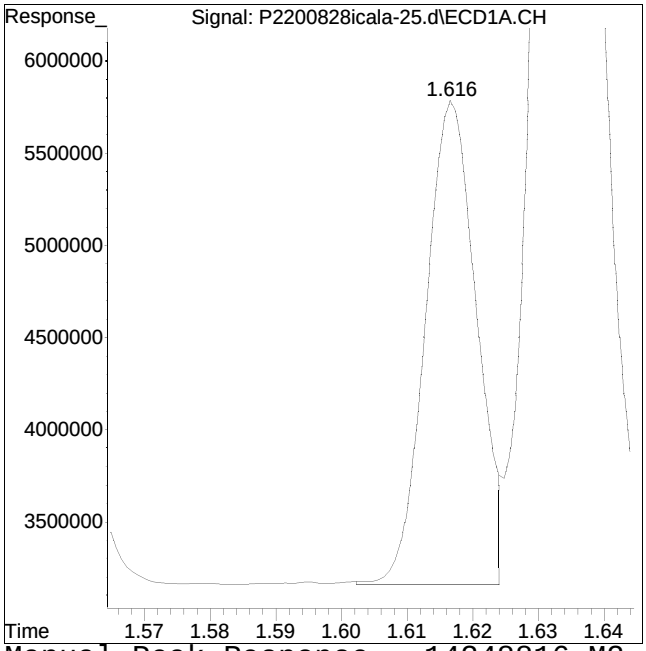
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-25.d Operator : pest2:kb
Date Inj'd : 9/17/2020 3:06 pm Instrument : PEST 2
Sample : cicv2154,42e,, rr 9816 Quant Date : 9/18/2020 3:27 pm

Compound #16: 1221-3



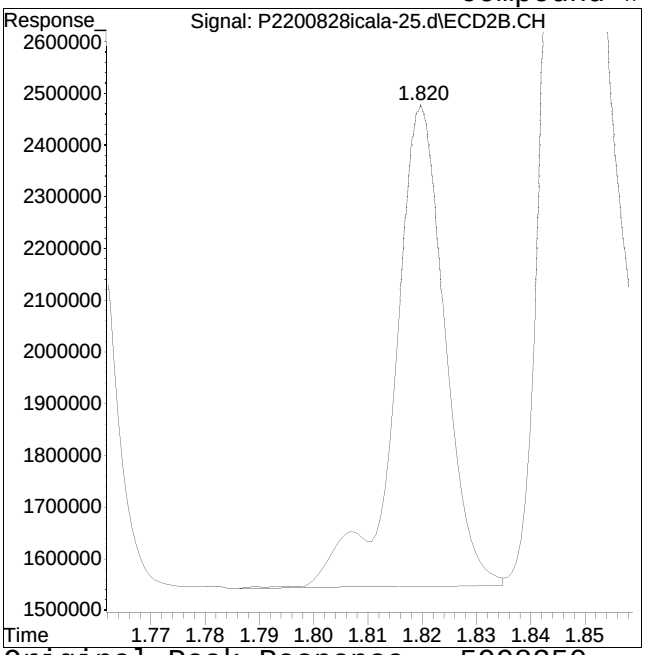


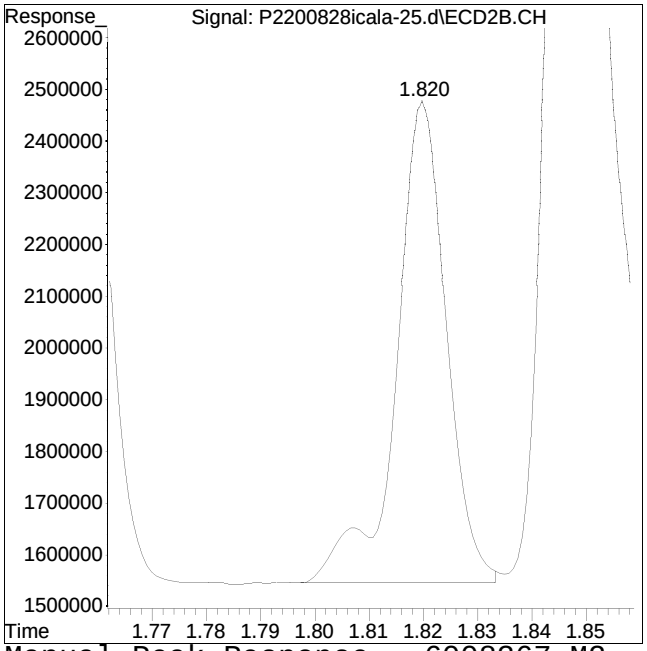
Original Peak Response = 13777824 Manual Peak Response = 14248816 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-25.d Operator : pest2:kb
Date Inj'd : 9/17/2020 3:06 pm Instrument : PEST 2
Sample : cicv2154,42e,, rr 9816 Quant Date : 9/18/2020 3:27 pm

Compound #67: 1221-3 #2



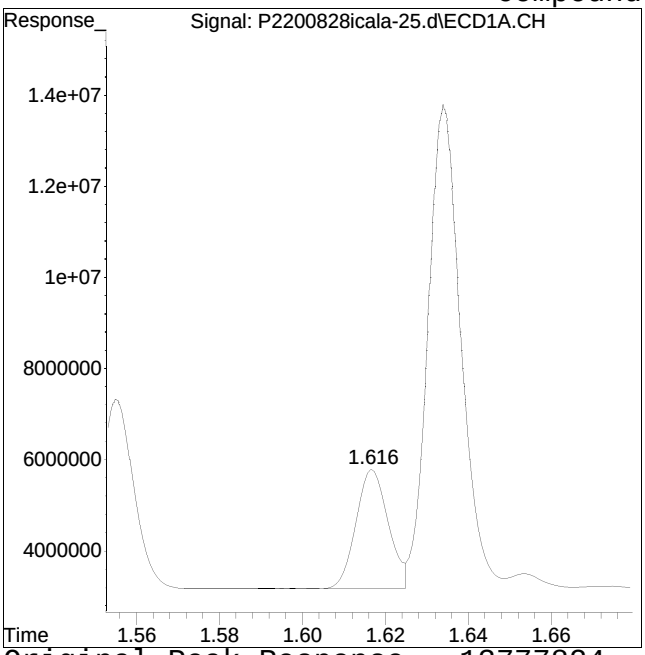


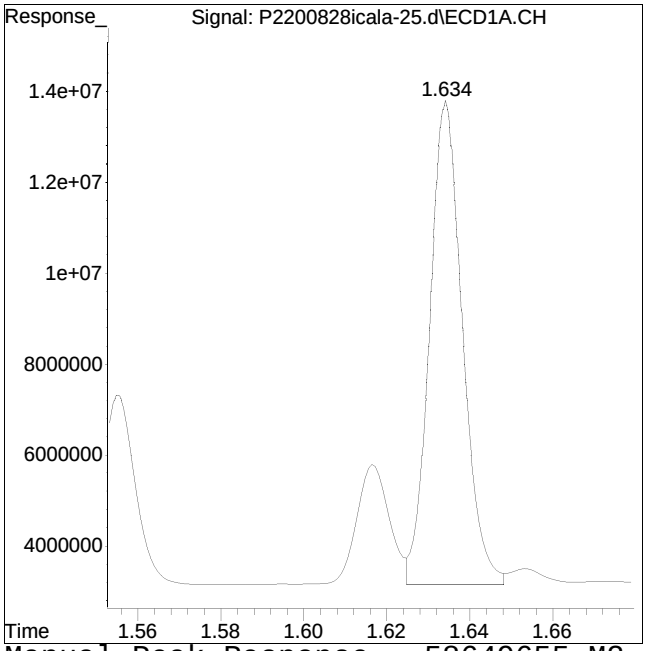
Original Peak Response = 5998250 Manual Peak Response = 6008367 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-25.d Operator : pest2:kb
Date Inj'd : 9/17/2020 3:06 pm Instrument : PEST 2
Sample : cicv2154,42e,, rr 9816 Quant Date : 9/18/2020 3:27 pm

Compound #17: 1221-4



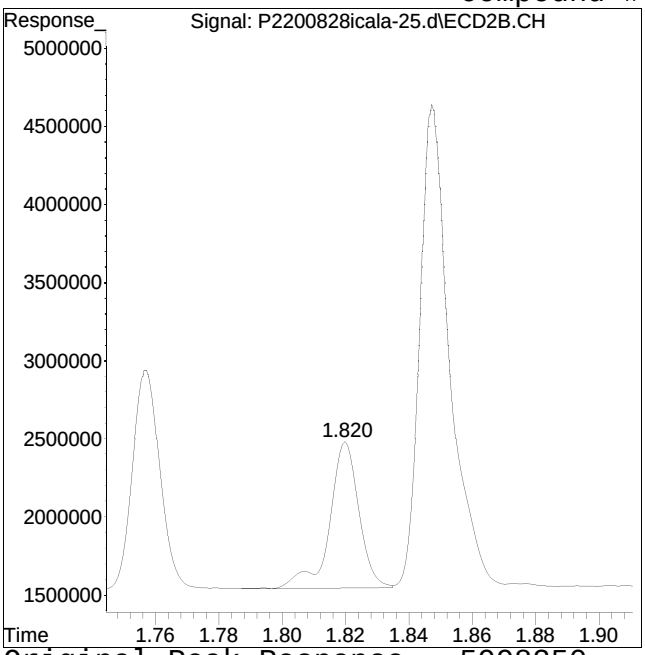


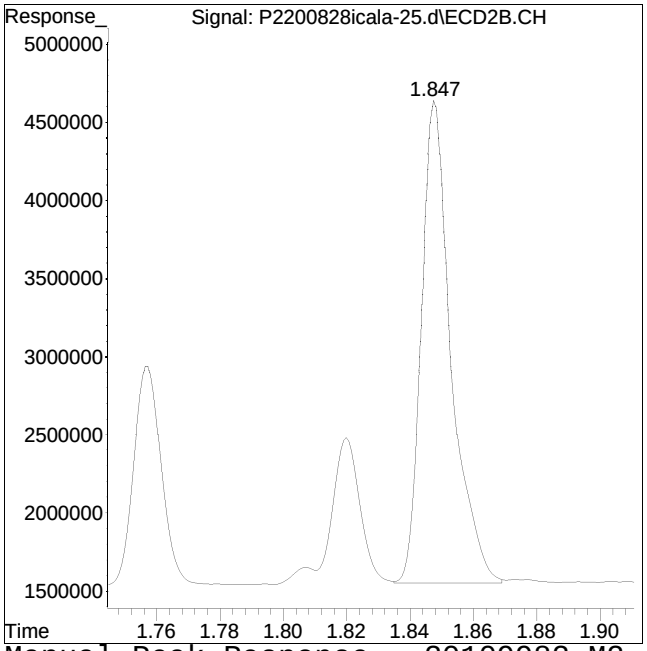
Original Peak Response = 13777824 Manual Peak Response = 58649655 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-25.d Operator : pest2:kb
Date Inj'd : 9/17/2020 3:06 pm Instrument : PEST 2
Sample : cicv2154,42e,, rr 9816 Quant Date : 9/18/2020 3:27 pm

Compound #68: 1221-4 #2



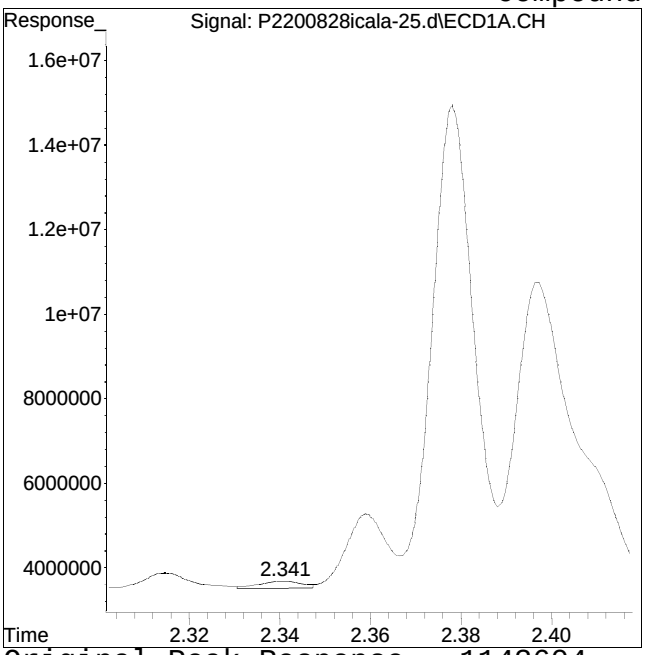


Original Peak Response = 5998250 Manual Peak Response = 20109982 M2
M2 = Peak not found by automatic integration algorithm.

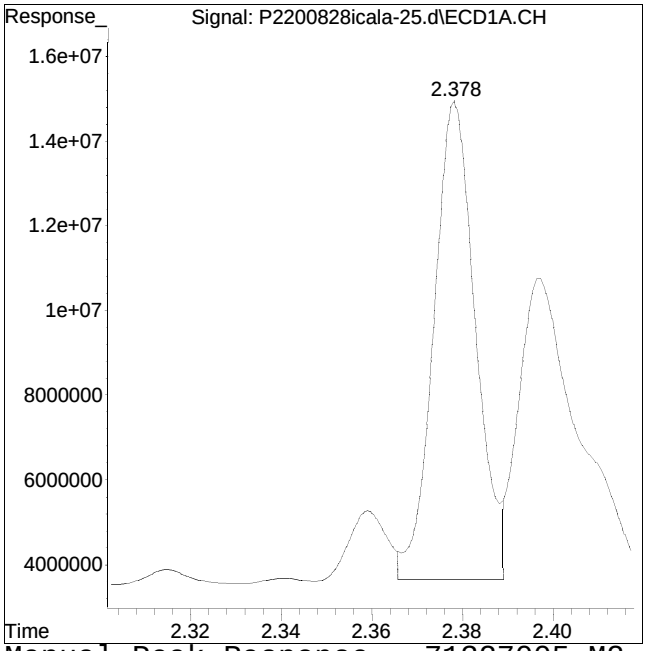
Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-25.d Operator : pest2:kb
Date Inj'd : 9/17/2020 3:06 pm Instrument : PEST 2
Sample : cicv2154,42e,, rr 9816 Quant Date : 9/18/2020 3:27 pm

Compound #18: 1254-1



Original Peak Response = 1143604



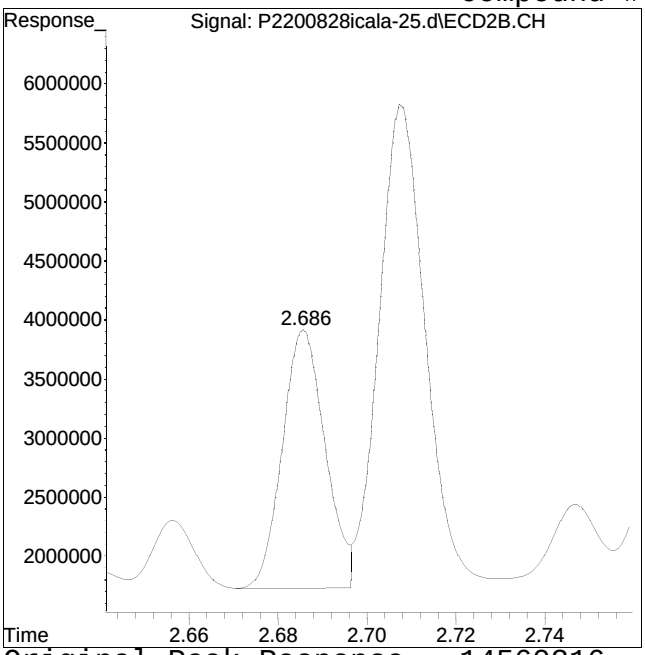
Manual Peak Response = 71327005 M2

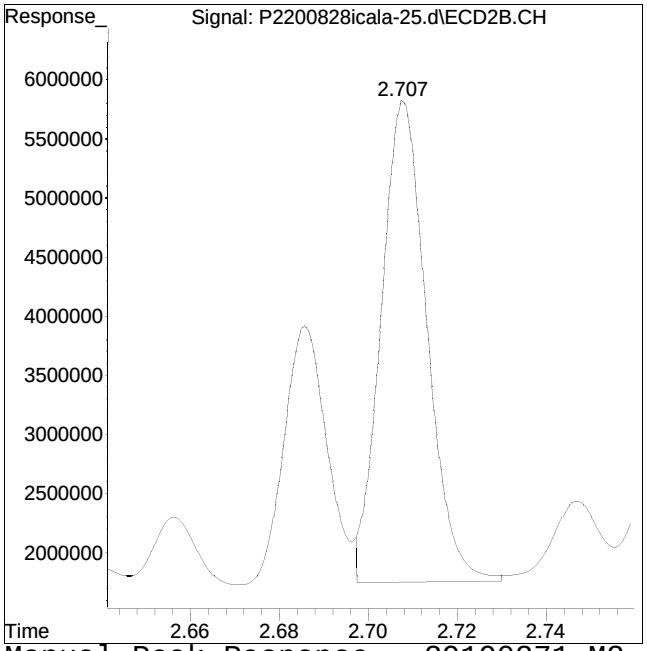
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-25.d Operator : pest2:kb
Date Inj'd : 9/17/2020 3:06 pm Instrument : PEST 2
Sample : cicv2154,42e,, rr 9816 Quant Date : 9/18/2020 3:27 pm

Compound #69: 1254-1 #2



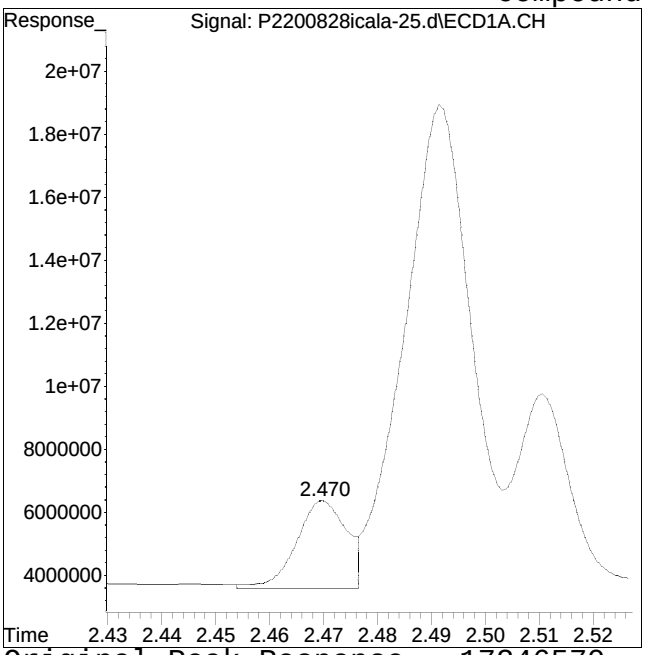


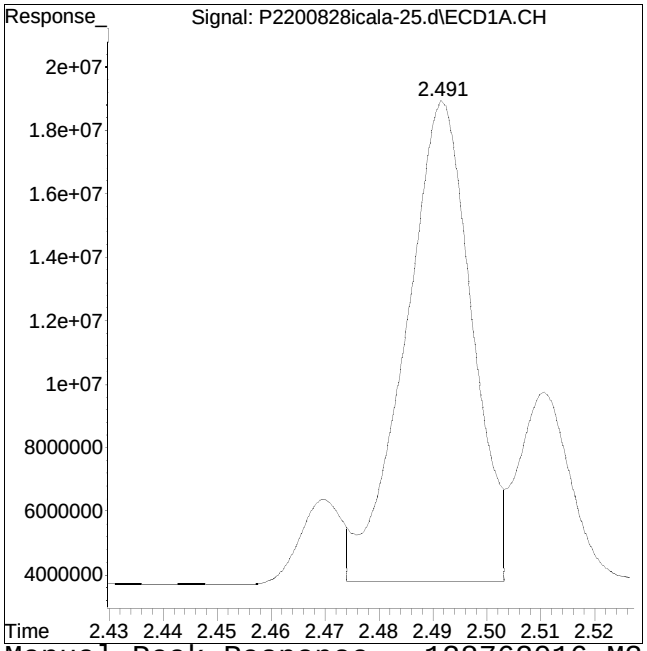
Original Peak Response = 14560216 Manual Peak Response = 29190271 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-25.d Operator : pest2:kb
Date Inj'd : 9/17/2020 3:06 pm Instrument : PEST 2
Sample : cicv2154,42e,, rr 9816 Quant Date : 9/18/2020 3:27 pm

Compound #19: 1254-2



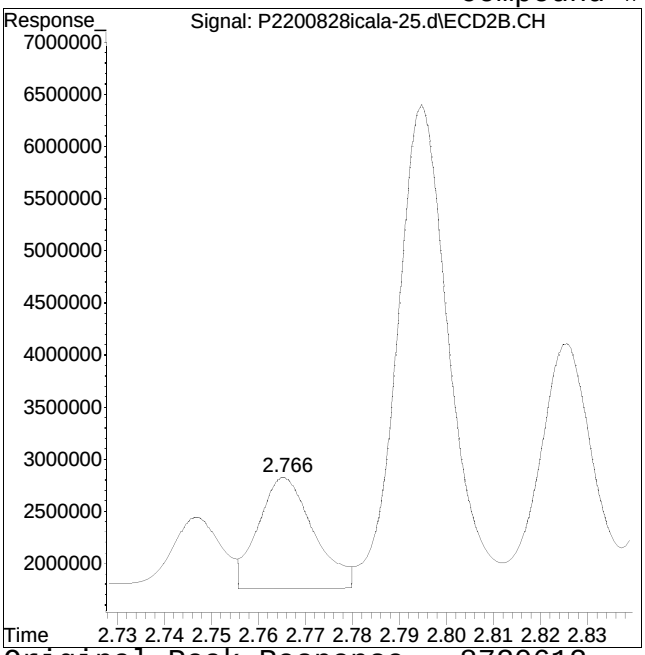


Original Peak Response = 17246570 Manual Peak Response = 128762016 M2
M2 = Peak not found by automatic integration algorithm.

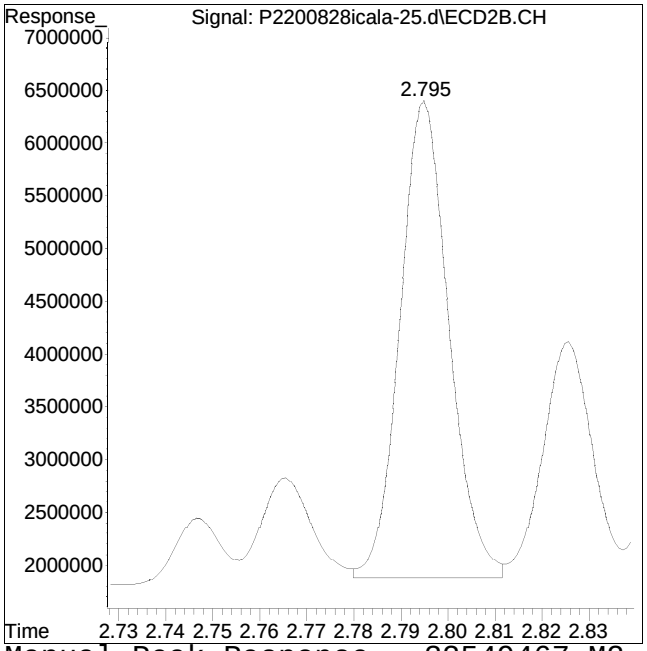
Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-25.d Operator : pest2:kb
Date Inj'd : 9/17/2020 3:06 pm Instrument : PEST 2
Sample : cicv2154,42e,, rr 9816 Quant Date : 9/18/2020 3:27 pm

Compound #70: 1254-2 #2



Original Peak Response = 8720612



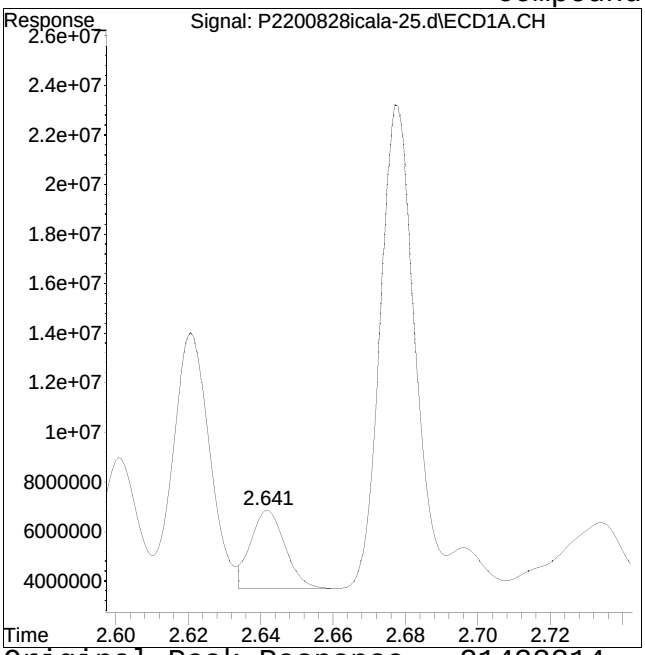
Manual Peak Response = 32549467 M2

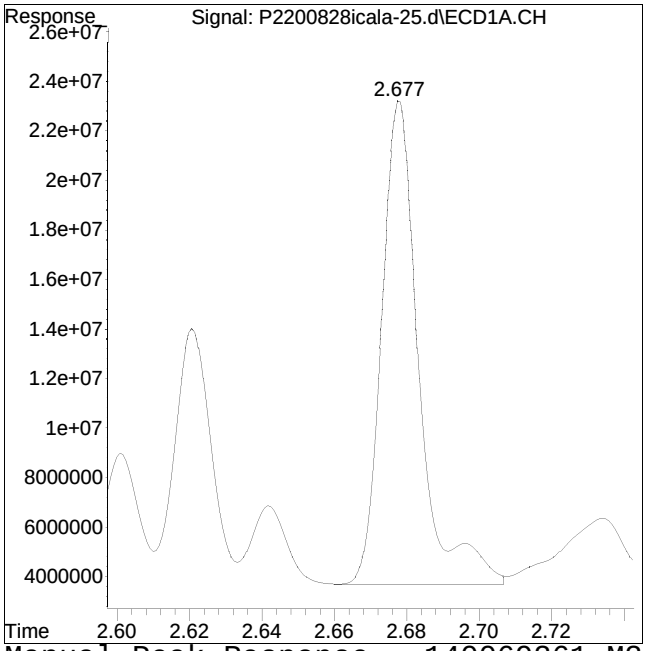
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-25.d Operator : pest2:kb
Date Inj'd : 9/17/2020 3:06 pm Instrument : PEST 2
Sample : cicv2154,42e,, rr 9816 Quant Date : 9/18/2020 3:27 pm

Compound #20: 1254-3



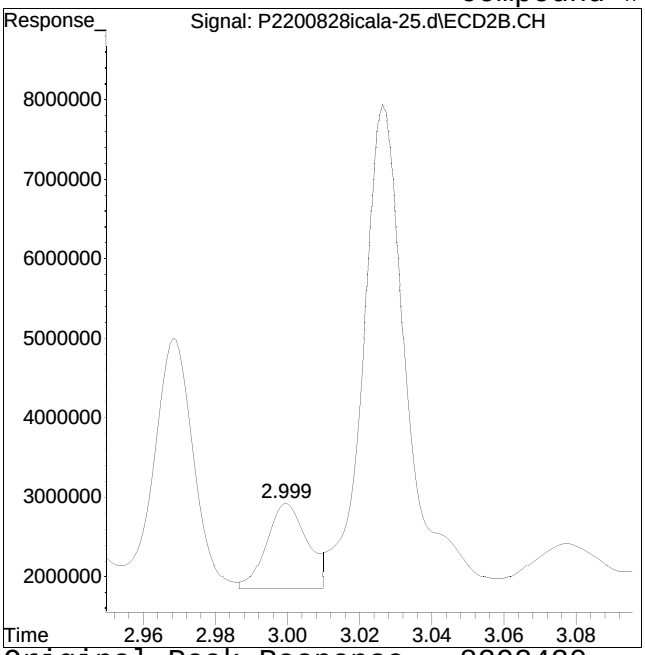


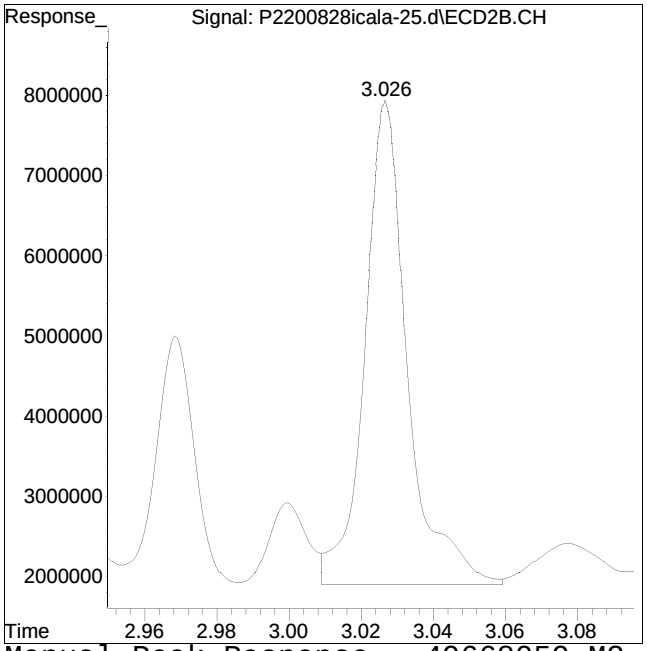
Original Peak Response = 21432214 Manual Peak Response = 140069261 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-25.d Operator : pest2:kb
Date Inj'd : 9/17/2020 3:06 pm Instrument : PEST 2
Sample : cicv2154,42e,, rr 9816 Quant Date : 9/18/2020 3:27 pm

Compound #71: 1254-3 #2



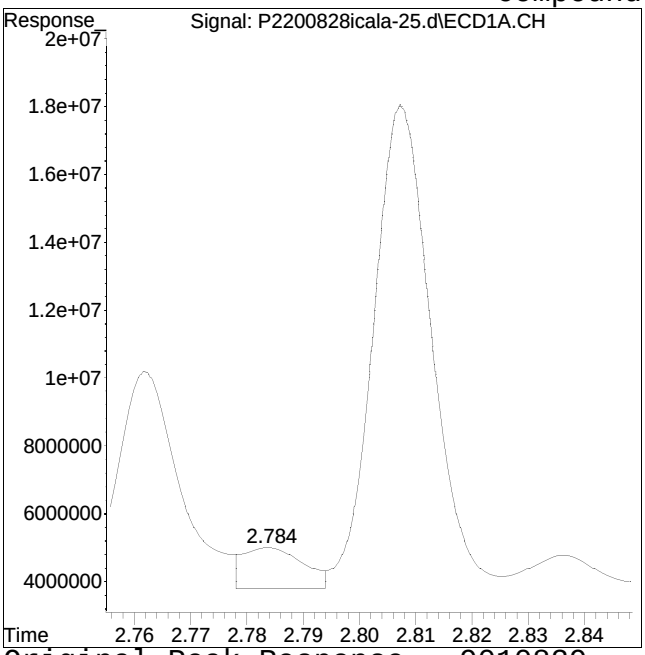


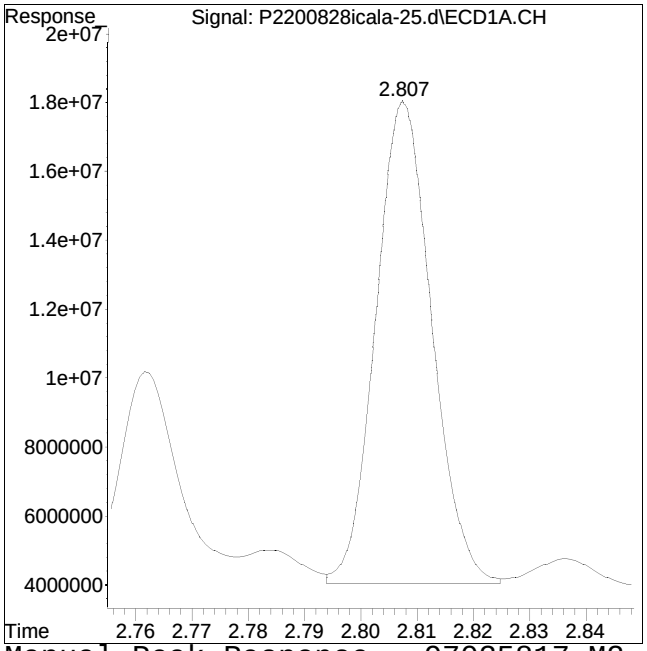
Original Peak Response = 8292420 Manual Peak Response = 49668059 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-25.d Operator : pest2:kb
Date Inj'd : 9/17/2020 3:06 pm Instrument : PEST 2
Sample : cicv2154,42e,, rr 9816 Quant Date : 9/18/2020 3:27 pm

Compound #21: 1254-4



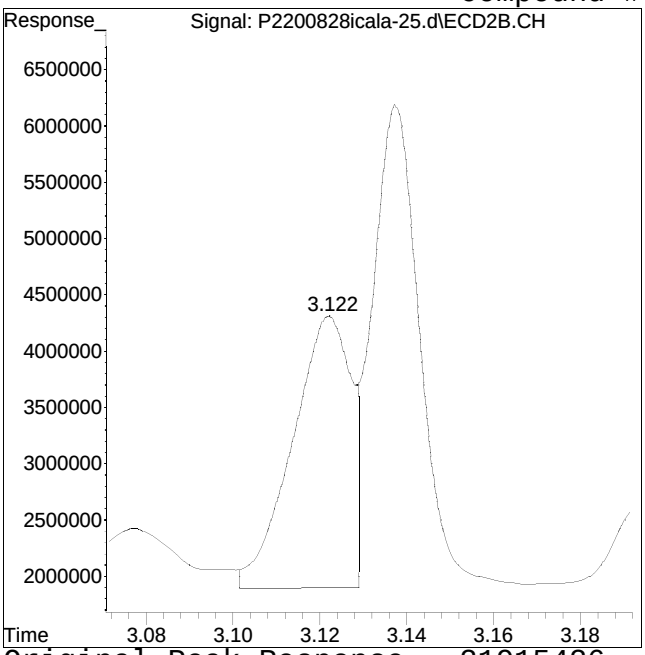


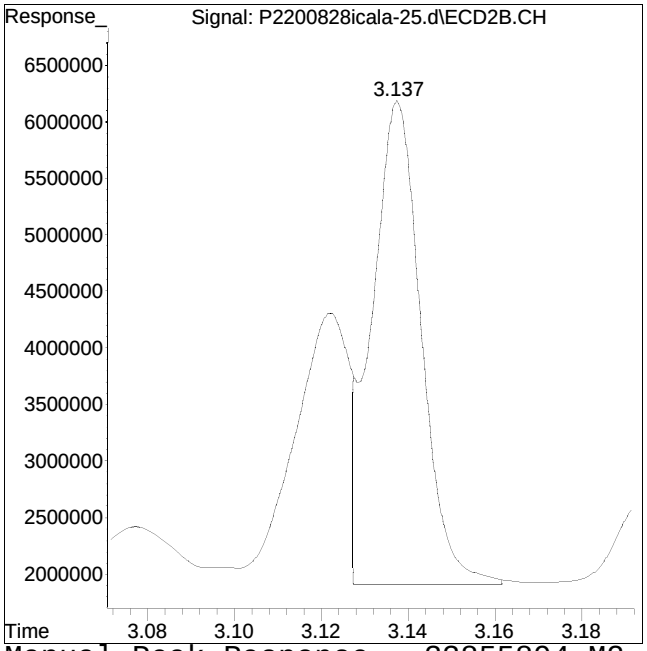
Original Peak Response = 9010829 Manual Peak Response = 97035817 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-25.d Operator : pest2:kb
Date Inj'd : 9/17/2020 3:06 pm Instrument : PEST 2
Sample : cicv2154,42e,, rr 9816 Quant Date : 9/18/2020 3:27 pm

Compound #72: 1254-4 #2



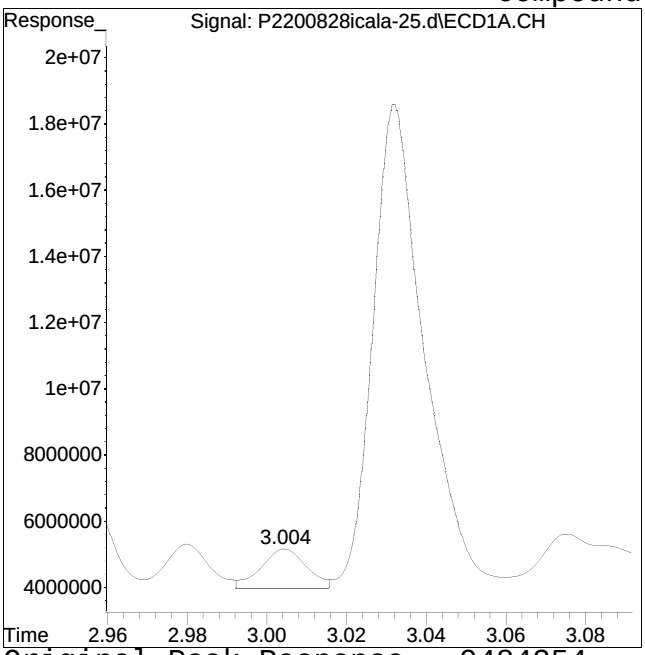


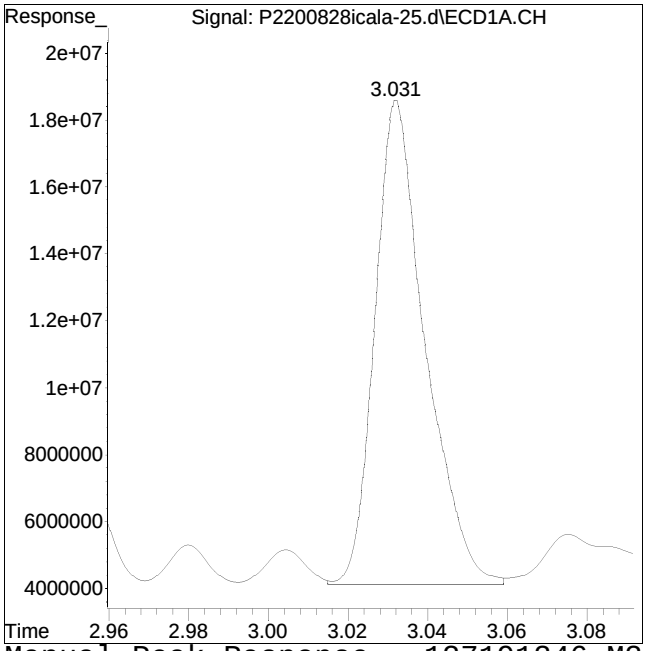
Original Peak Response = 21915426 Manual Peak Response = 33855894 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-25.d Operator : pest2:kb
Date Inj'd : 9/17/2020 3:06 pm Instrument : PEST 2
Sample : cicv2154,42e,, rr 9816 Quant Date : 9/18/2020 3:27 pm

Compound #22: 1254-5



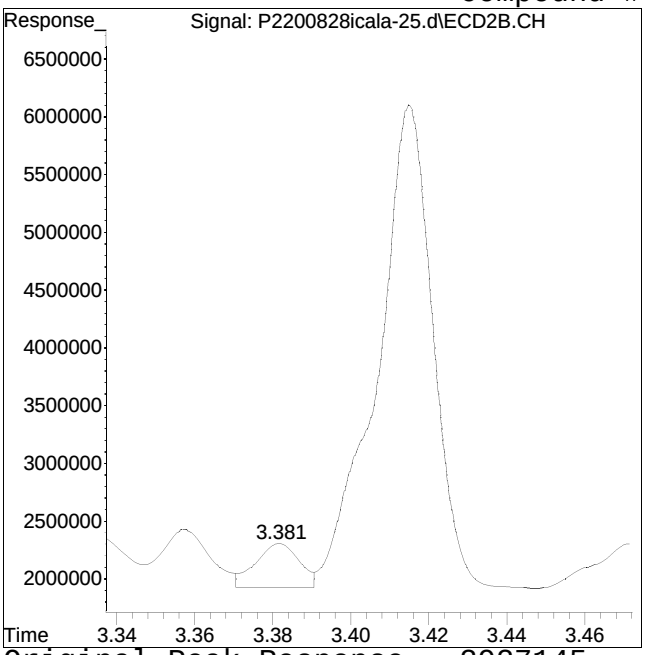


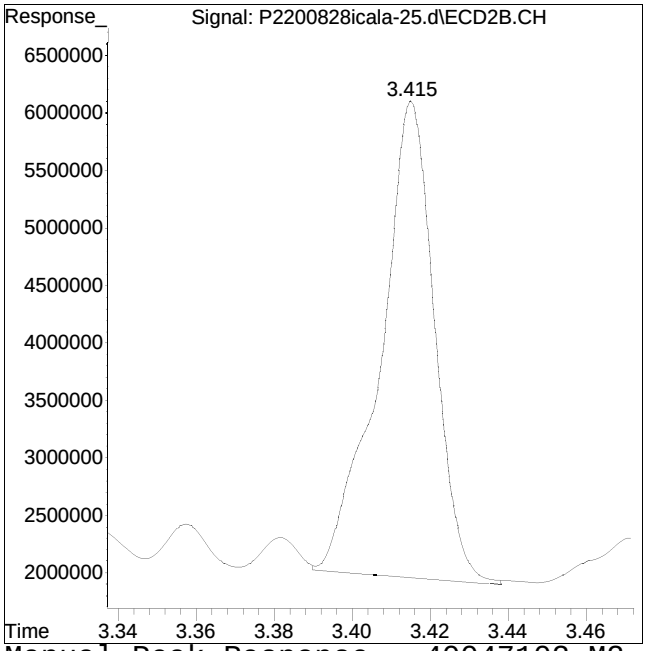
Original Peak Response = 9484254 Manual Peak Response = 127191246 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest2\200828icalLVI\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2200828icala-25.d Operator : pest2:kb
Date Inj'd : 9/17/2020 3:06 pm Instrument : PEST 2
Sample : cicv2154,42e,, rr 9816 Quant Date : 9/18/2020 3:27 pm

Compound #73: 1254-5 #2





Original Peak Response = 2927145 Manual Peak Response = 40047102 M2
M2 = Peak not found by automatic integration algorithm.

Continuing Calibration

Calibration Verification Summary
Form 7
PCBs

Client	: Impact Environmental	**Lab Number**	: L2046790	
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209	
Instrument ID	: PEST2	**Calibration Date**	: 10/27/20 08:03	
Lab File ID	: P2201027a-03	**Init. Calib. Date(s)**	: 08/28/20	08/28/20
Sample No	: WG1426966-1	**Init. Calib. Times**	: 21:17	22:25
Channel	: A			

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
i 1660_1br2nb	25	25	-	0	20	118	0
s 2,4,5,6-Tetrachloro-m-x	16	17.974	-	-12.3	20	130	0
s Decachlorobiphenyl	32	25.498	-	20.3*	20	92	0
l1 1016-1	250	266.591	-	-6.6	20	123	0
l1 1016-2	250	268.668	-	-7.5	20	126	0
l1 1016-3	250	271.139	-	-8.5	20	124	0
l1 1016-4	250	267.027	-	-6.8	20	122	0
l1 1016-5	250	252.828	-	-1.1	20	119	0
l2 1260-1	250	225.158	-	9.9	20	105	0
l2 1260-2	250	232.042	-	7.2	20	106	0
l2 1260-3	250	224.958	-	10	20	101	0
l2 1260-4	250	224.866	-	10.1	20	101	0
l2 1260-5	250	219.746	-	12.1	20	100	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
PCBs

Client	: Impact Environmental		**Lab Number**	: L2046790	
Project Name	: 13-12 BEACH CHANNEL DRIVE		**Project Number**	: 15209	
Instrument ID	: PEST2		**Calibration Date**	: 10/27/20 08:03	
Lab File ID	: P2201027a-03		**Init. Calib. Date(s)**	: 08/28/20	08/28/20
Sample No	: WG1426966-1		**Init. Calib. Times**	: 21:17	22:25
Channel	: B				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
i 1660_1br2nb #2	25	25	-	0	20	93	0
s 2,4,5,6-Tetrachloro-m-x	16	17.394	-	-8.7	20	101	0
s Decachlorobiphenyl #2	32	33.52	-	-4.8	20	100	0
l1 1016-1 #2	250	266.12	-	-6.4	20	104	0
l1 1016-2 #2	250	267.652	-	-7.1	20	100	0
l1 1016-3 #2	250	273.82	-	-9.5	20	103	0
l1 1016-4 #2	250	271.693	-	-8.7	20	105	0
l1 1016-5 #2	250	278.213	-	-11.3	20	104	0
l2 1260-1 #2	250	247.495	-	1	20	92	0
l2 1260-2 #2	250	247.474	-	1	20	94	0
l2 1260-3 #2	250	262.428	-	-5	20	98	0
l2 1260-4 #2	250	247.435	-	1	20	91	0
l2 1260-5 #2	250	246.519	-	1.4	20	92	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
PCBs

Client	: Impact Environmental	**Lab Number**	: L2046790	
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209	
Instrument ID	: PEST2	**Calibration Date**	: 10/29/20 07:57	
Lab File ID	: P2201029a-03	**Init. Calib. Date(s)**	: 08/28/20	08/28/20
Sample No	: WG1428007-1	**Init. Calib. Times**	: 21:17	22:25
Channel	: A			

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
i 1660_1br2nb	25	25	-	0	20	110	0
s 2,4,5,6-Tetrachloro-m-x	16	18.919	-	-18.2	20	127	0
s Decachlorobiphenyl	32	25.665	-	19.8	20	86	0
l1 1016-1	250	281.175	-	-12.5	20	121	0
l1 1016-2	250	283.633	-	-13.5	20	124	0
l1 1016-3	250	282.158	-	-12.9	20	120	0
l1 1016-4	250	281.345	-	-12.5	20	120	0
l1 1016-5	250	263.63	-	-5.5	20	115	0
l2 1260-1	250	235.56	-	5.8	20	102	0
l2 1260-2	250	225.238	-	9.9	20	96	0
l2 1260-3	250	225.262	-	9.9	20	94	0
l2 1260-4	250	227.625	-	8.9	20	95	0
l2 1260-5	250	218.551	-	12.6	20	92	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
PCBs

Client	: Impact Environmental		**Lab Number**	: L2046790	
Project Name	: 13-12 BEACH CHANNEL DRIVE		**Project Number**	: 15209	
Instrument ID	: PEST2		**Calibration Date**	: 10/29/20 07:57	
Lab File ID	: P2201029a-03		**Init. Calib. Date(s)**	: 08/28/20	08/28/20
Sample No	: WG1428007-1		**Init. Calib. Times**	: 21:17	22:25
Channel	: B				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
i 1660_1br2nb #2	25	25	-	0	20	88	0
s 2,4,5,6-Tetrachloro-m-x	16	17.82	-	-11.4	20	98	0
s Decachlorobiphenyl #2	32	30.993	-	3.1	20	88	0
l1 1016-1 #2	250	269.376	-	-7.8	20	100	0
l1 1016-2 #2	250	274.392	-	-9.8	20	97	0
l1 1016-3 #2	250	273.386	-	-9.4	20	97	0
l1 1016-4 #2	250	264.584	-	-5.8	20	97	0
l1 1016-5 #2	250	270.151	-	-8.1	20	96	0
l2 1260-1 #2	250	250.268	-	-0.1	20	89	0
l2 1260-2 #2	250	249.987	-	0	20	90	0
l2 1260-3 #2	250	248.711	-	0.5	20	88	0
l2 1260-4 #2	250	246.344	-	1.5	20	86	0
l2 1260-5 #2	250	244.29	-	2.3	20	86	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\Pest2\201027A\
Data File : P2201027a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Oct 2020 8:03 am
Operator : pest2:cw
Sample : wg1426966-1,42e,,+1660 lvi 10062 (Sig #1); +1660 lvi 10062 (Sig #2
)
Misc : wg1426966,ical17147
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 27 15:55:39 2020
Quant Method : I:\Pest2\201027A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	25.000	25.000	0.0	118	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	16.000	17.974	-12.3	130	0.00
3	s	Decachlorobiphenyl	32.000	25.498	20.3#	92	0.00
4	l1	1016-1	250.000	266.591	-6.6	123	0.00
5	l1	1016-2	250.000	268.668	-7.5	126	0.00
6	l1	1016-3	250.000	271.139	-8.5	124	0.00
7	l1	1016-4	250.000	267.027	-6.8	122	0.00
8	l1	1016-5	250.000	252.828	-1.1	119	0.00
9	l2	1260-1	250.000	225.158	9.9	105	0.00
10	l2	1260-2	250.000	232.042	7.2	106	0.00
11	l2	1260-3	250.000	224.958	10.0	101	0.00
12	l2	1260-4	250.000	224.866	10.1	101	0.00
13	l2	1260-5	250.000	219.746	12.1	100	0.00
52	i	1660_1br2nb #2	25.000	25.000	0.0	93	0.00
53	s	2,4,5,6-Tetrachloro-m-xylen	16.000	17.394	-8.7	101	0.00
54	s	Decachlorobiphenyl #2	32.000	33.520	-4.8	100	0.00
55	l1	1016-1 #2	250.000	266.120	-6.4	104	0.00
56	l1	1016-2 #2	250.000	267.652	-7.1	100	0.00
57	l1	1016-3 #2	250.000	273.820	-9.5	103	0.00
58	l1	1016-4 #2	250.000	271.693	-8.7	105	0.00
59	l1	1016-5 #2	250.000	278.213	-11.3	104	0.00
60	l2	1260-1 #2	250.000	247.495	1.0	92	0.00
61	l2	1260-2 #2	250.000	247.474	1.0	94	0.00
62	l2	1260-3 #2	250.000	262.428	-5.0	98	0.00
63	l2	1260-4 #2	250.000	247.435	1.0	91	0.00
64	l2	1260-5 #2	250.000	246.519	1.4	92	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\Pest2\201027A\
Data File : P2201027a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 27 Oct 2020   8:03 am
Operator : pest2:cw
Sample   : wg1426966-1,42e,,+1660 lvi 10062 (Sig #1); +1660 lvi 10062 (Sig #2
)
Misc   : wg1426966,ical17147
ALS Vial : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 27 15:55:39 2020
Quant Method : I:\Pest2\201027A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area% Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\201027A\
Data File : P2201027a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Oct 2020 8:03 am
Operator : pest2:cw
Sample : wg1426966-1,42e,,+1660 lvi 10062 (Sig #1); +1660 lvi 10062 (Sig #2
)
Misc : wg1426966,ical17147
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 27 15:55:39 2020
Quant Method : I:\Pest2\201027A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.195	1.248	170.9E6	47399024	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.486	1.630	166.5E6	44754423	17.974	17.394
	Spiked Amount	20.000	Range 30 - 150		Recovery =	89.87%	86.97%
3) s	Decachlorobi	4.085	4.597	190.0E6	65709144	25.498M4	33.520M4
	Spiked Amount	20.000	Range 30 - 150		Recovery =	127.49%	167.60%#
	Target Compounds						
4) l1	1016-1	1.627	1.836	43227897	13225852	266.591M1	266.120
5) l1	1016-2	1.772	2.011	98542037	27987018	268.668	267.652
6) l1	1016-3	1.963	2.214	197.8E6	55935127	271.139	273.820
7) l1	1016-4	2.020	2.275	79153664	22263618	267.027	271.693
8) l1	1016-5	2.192	2.489	80138937	18218085	252.828	278.213
	Sum 1016-1			498.9E6	137.6E6	1326.253	1357.499
	Average 1016-1					265.251	271.500
9) l2	1260-1	2.742	3.104	110.2E6	33254776	225.158	247.495M4
10) l2	1260-2	2.872	3.207	169.4E6	38505862	232.042M1	247.474
11) l2	1260-3	3.191	3.603	103.2E6	33621817	224.958M4	262.428M4
12) l2	1260-4	3.347	3.733	237.7E6	65107552	224.866M1	247.435M4
13) l2	1260-5	3.497	3.937	153.7E6	45369295	219.746M1	246.519M4
	Sum 1260-1			774.3E6	215.9E6	1126.770	1251.350
	Average 1260-1					225.354	250.270
	Sum 1221-2			0	0	N.D.	N.D.
	Average 1221-2					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\201027A\
Data File : P2201027a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Oct 2020 8:03 am
Operator : pest2:cw
Sample : wg1426966-1,42e,,+1660 lvi 10062 (Sig #1); +1660 lvi 10062 (Sig #2
)
Misc : wg1426966,ical17147
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 27 15:55:39 2020
Quant Method : I:\Pest2\201027A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

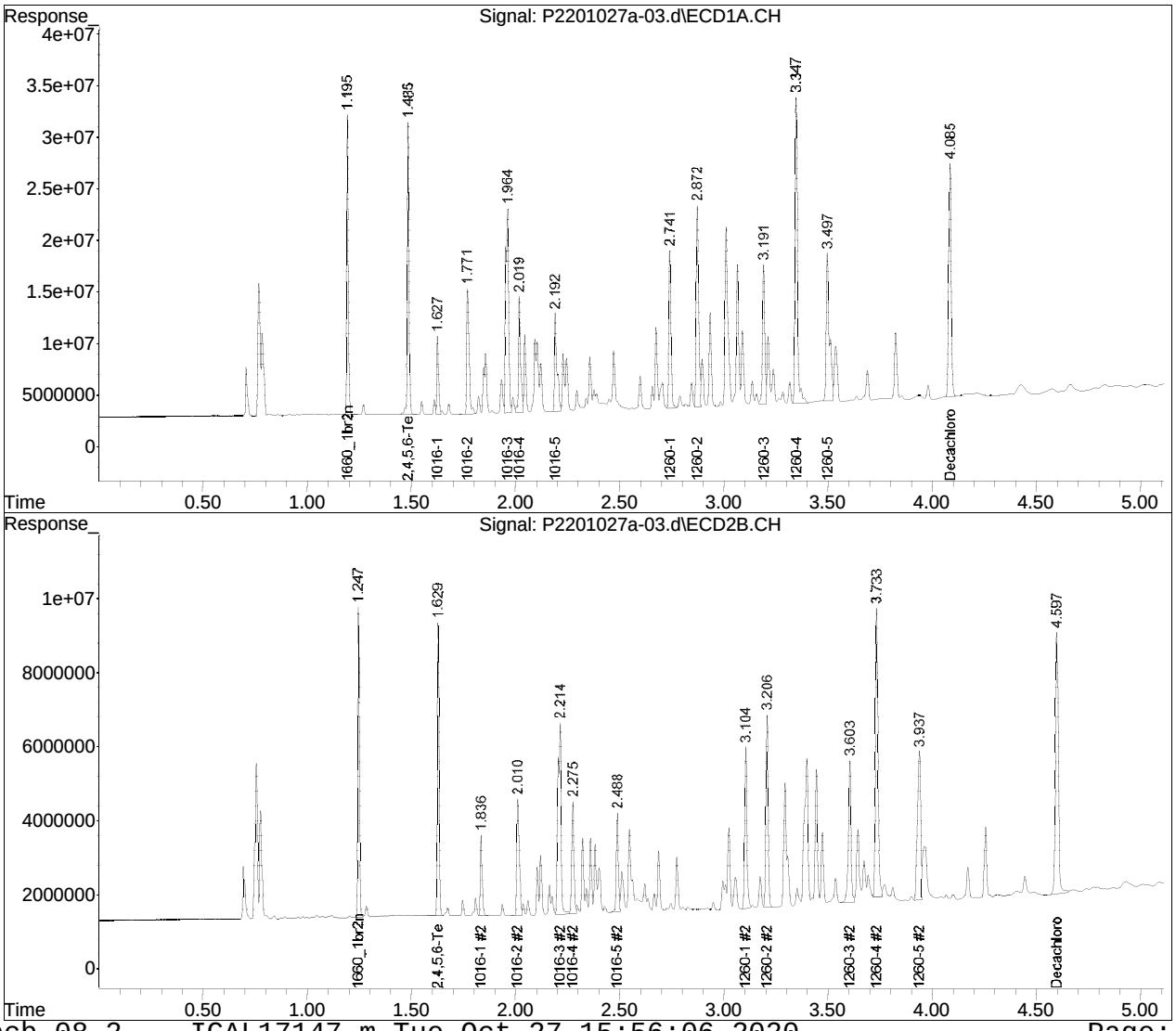
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660ation Report (QT Reviewed)

Data Path : I:\Pest2\201027A\
Data File : P2201027a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Oct 2020 8:03 am
Operator : pest2:cw
Sample : wg1426966-1,42e,,+1660 lvi 10062 (Sig #1); +1660 lvi 10062 (Sig #2
Misc : wg1426966,ical17147
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 27 15:55:39 2020
Quant Method : I:\Pest2\201027A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

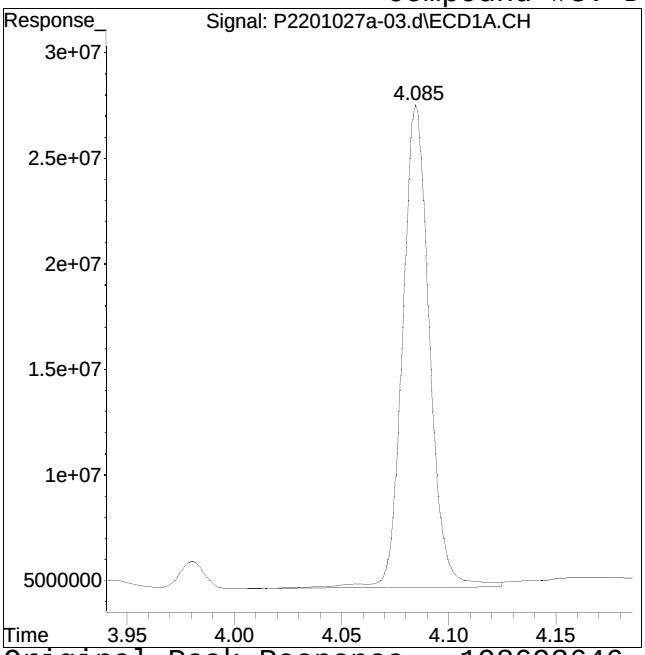
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

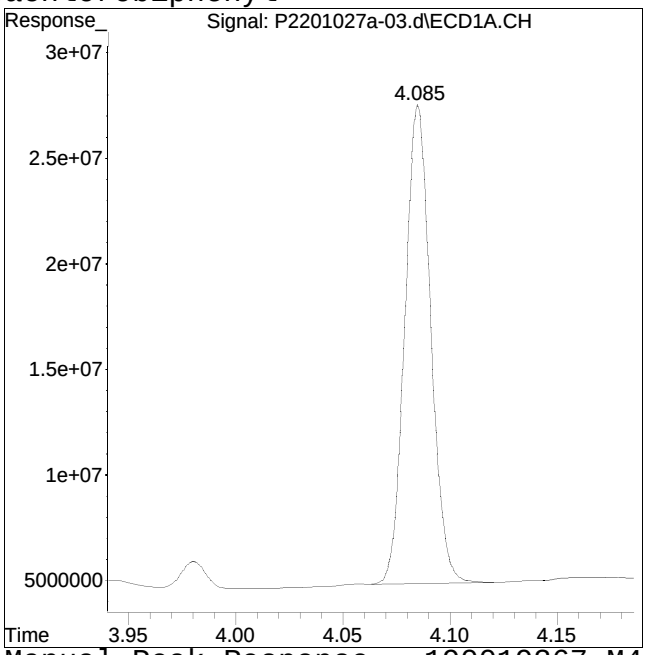


Manual Integration Report

Data Path : I:\Pest2\201027A\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2201027a-03.d Operator : pest2:cw
Date Inj'd : 10/27/2020 8:03 am Instrument : PEST 2
Sample : wg1426966-1,42e,,+1660 lvi Quant Date : 10/27/2020 8:23 am

Compound #3: Decachlorobiphenyl



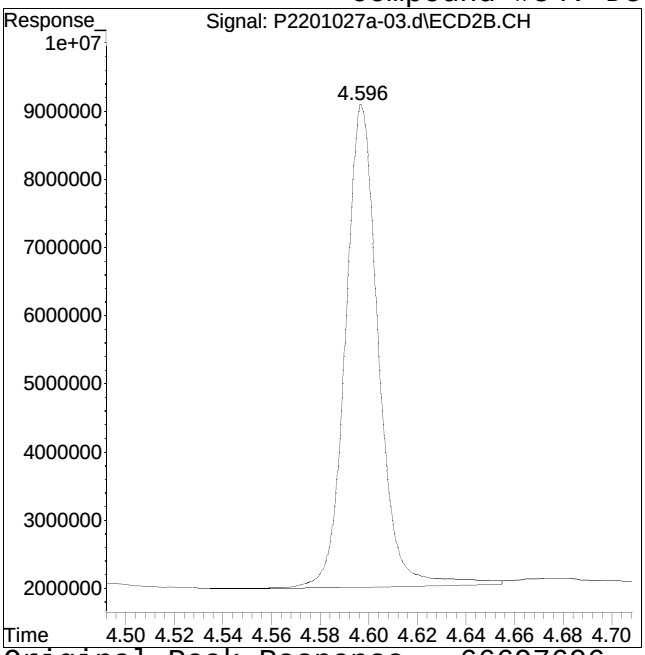


Original Peak Response = 198693646 Manual Peak Response = 190019367 M4
M4 = Poor automated baseline construction.

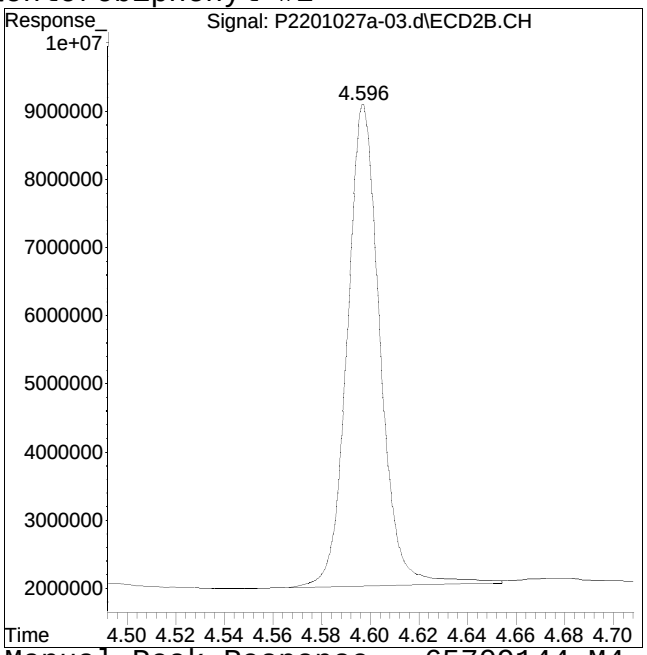
Manual Integration Report

Data Path : I:\Pest2\201027A\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2201027a-03.d Operator : pest2:cw
Date Inj'd : 10/27/2020 8:03 am Instrument : PEST 2
Sample : wg1426966-1,42e,,+1660 lvi Quant Date : 10/27/2020 8:23 am

Compound #54: Decachlorobiphenyl #2



Original Peak Response = 66697696



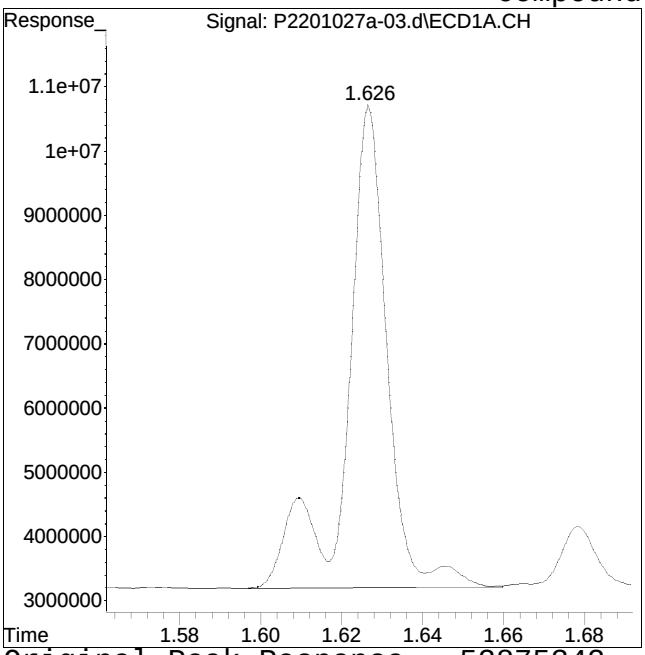
Manual Peak Response = 65709144 M4

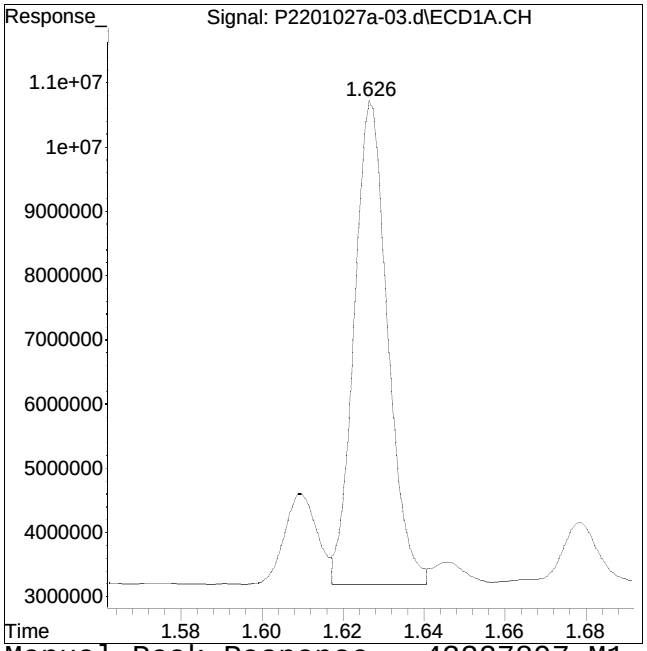
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest2\201027A\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2201027a-03.d Operator : pest2:cw
Date Inj'd : 10/27/2020 8:03 am Instrument : PEST 2
Sample : wg1426966-1,42e,,+1660 lvi Quant Date : 10/27/2020 8:23 am

Compound #4: 1016-1



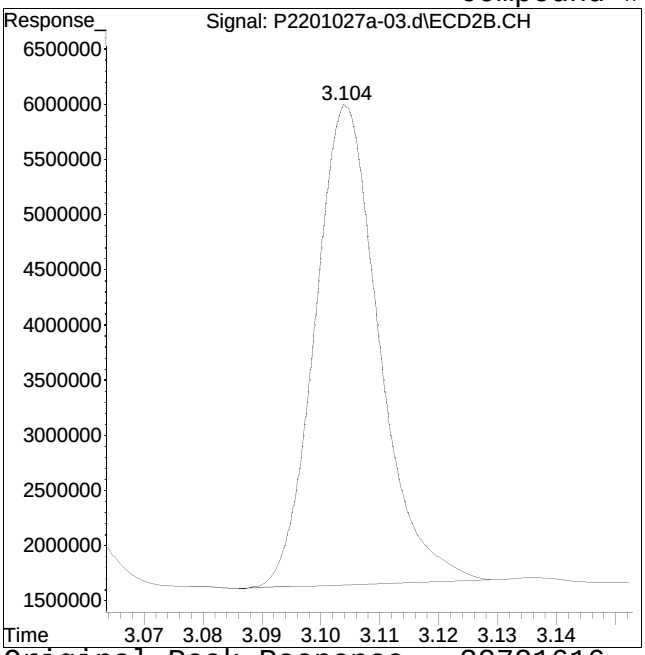


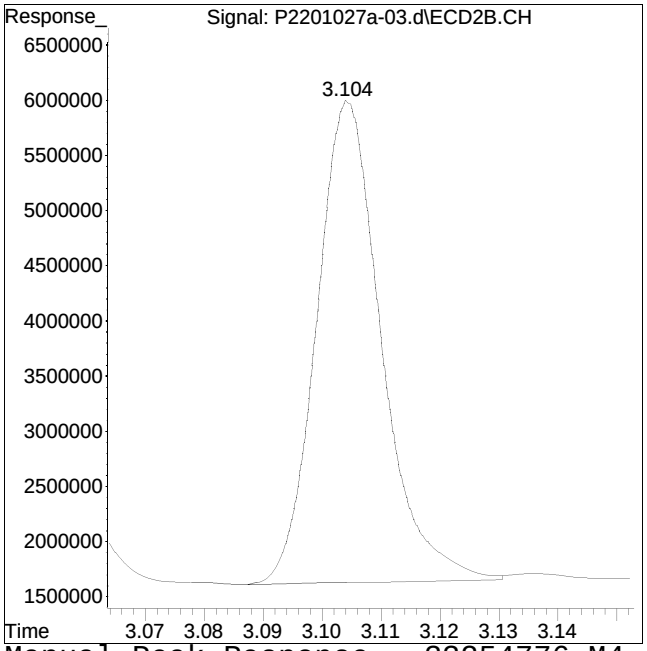
Original Peak Response = 52875342 Manual Peak Response = 43227897 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\Pest2\201027A\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2201027a-03.d Operator : pest2:cw
Date Inj'd : 10/27/2020 8:03 am Instrument : PEST 2
Sample : wg1426966-1,42e,,+1660 lvi Quant Date : 10/27/2020 8:23 am

Compound #60: 1260-1 #2



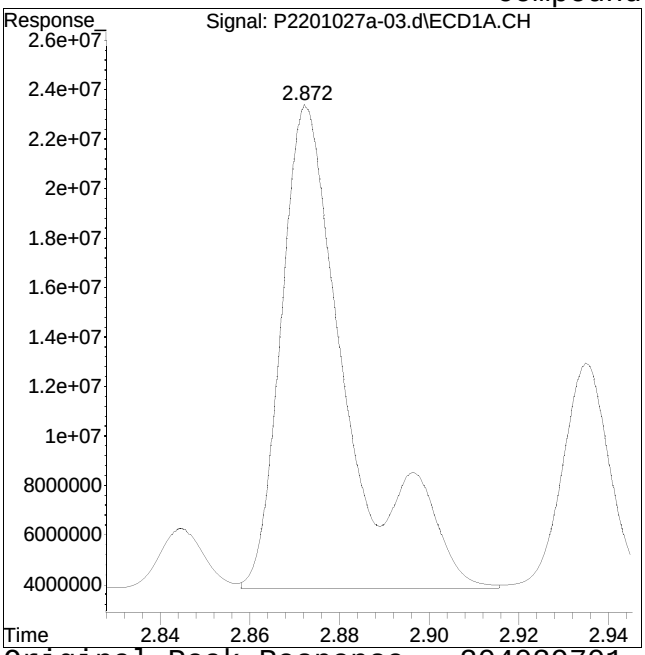


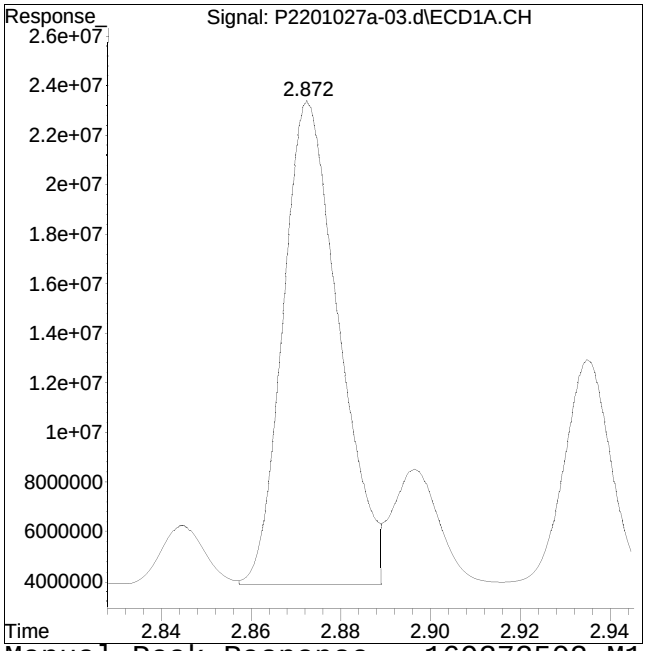
Original Peak Response = 32721616 Manual Peak Response = 33254776 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest2\201027A\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2201027a-03.d Operator : pest2:cw
Date Inj'd : 10/27/2020 8:03 am Instrument : PEST 2
Sample : wg1426966-1,42e,,+1660 lvi Quant Date : 10/27/2020 8:23 am

Compound #10: 1260-2



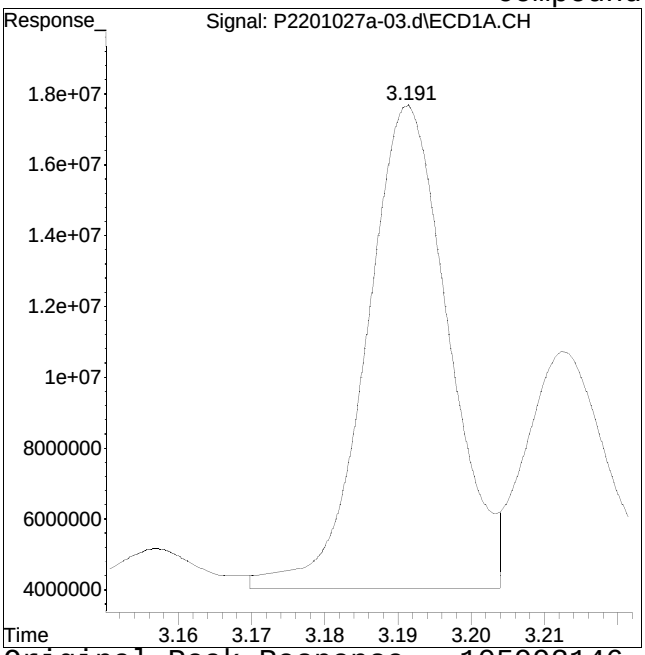


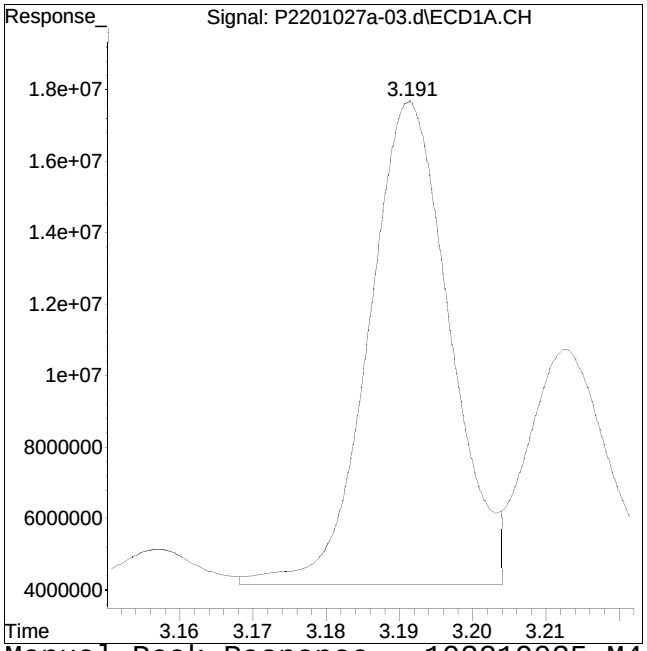
Original Peak Response = 204039701 Manual Peak Response = 169372502 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\Pest2\201027A\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2201027a-03.d Operator : pest2:cw
Date Inj'd : 10/27/2020 8:03 am Instrument : PEST 2
Sample : wg1426966-1,42e,,+1660 lvi Quant Date : 10/27/2020 8:23 am

Compound #11: 1260-3



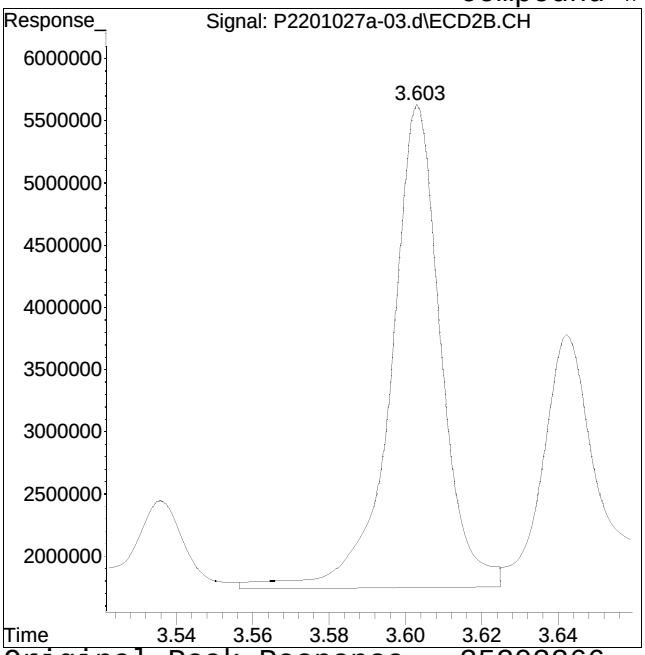


Original Peak Response = 105992146 Manual Peak Response = 103219035 M4
M4 = Poor automated baseline construction.

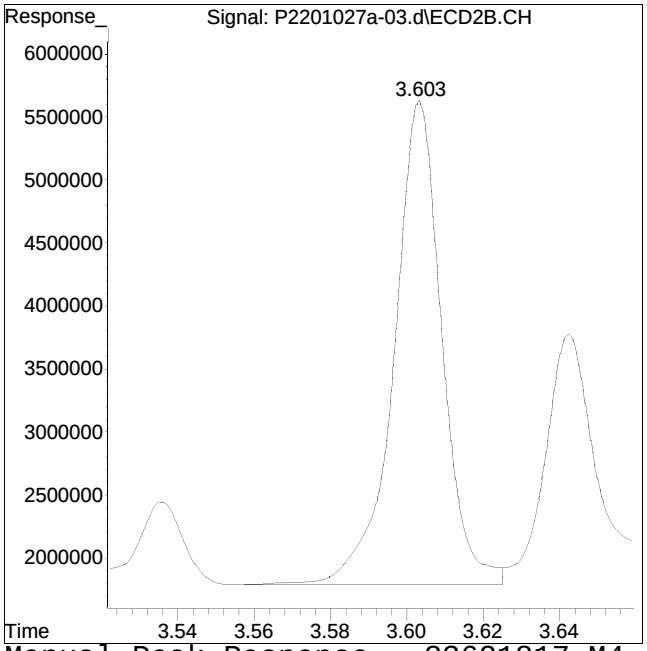
Manual Integration Report

Data Path : I:\Pest2\201027A\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2201027a-03.d Operator : pest2:cw
Date Inj'd : 10/27/2020 8:03 am Instrument : PEST 2
Sample : wg1426966-1,42e,,+1660 lvi Quant Date : 10/27/2020 8:23 am

Compound #62: 1260-3 #2



Original Peak Response = 35203266



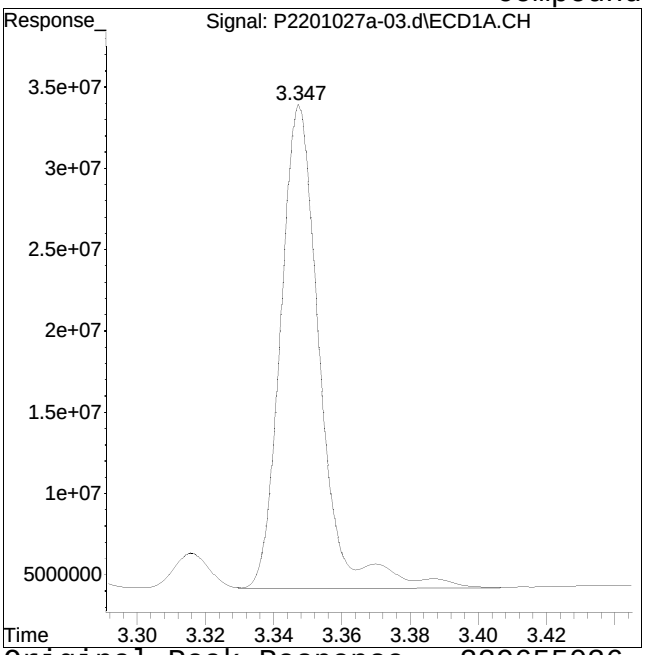
Manual Peak Response = 33621817 M4

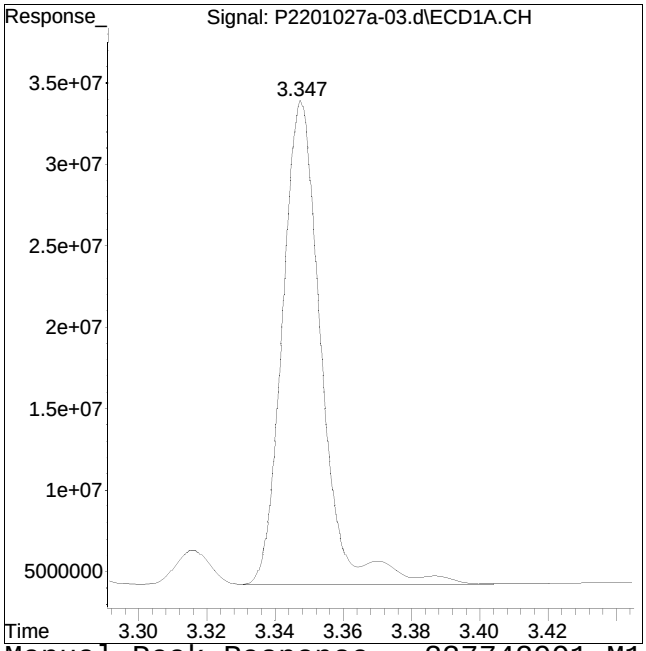
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest2\201027A\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2201027a-03.d Operator : pest2:cw
Date Inj'd : 10/27/2020 8:03 am Instrument : PEST 2
Sample : wg1426966-1,42e,,+1660 lvi Quant Date : 10/27/2020 8:23 am

Compound #12: 1260-4



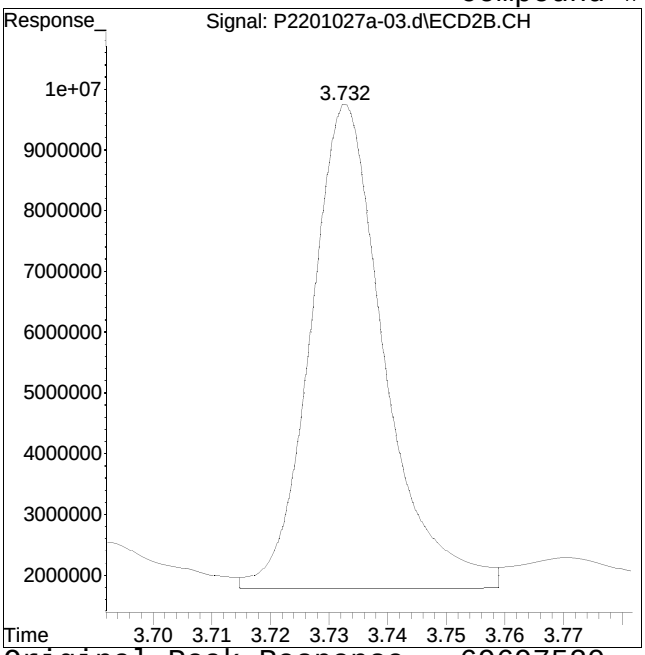


Original Peak Response = 239655036 Manual Peak Response = 237742991 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

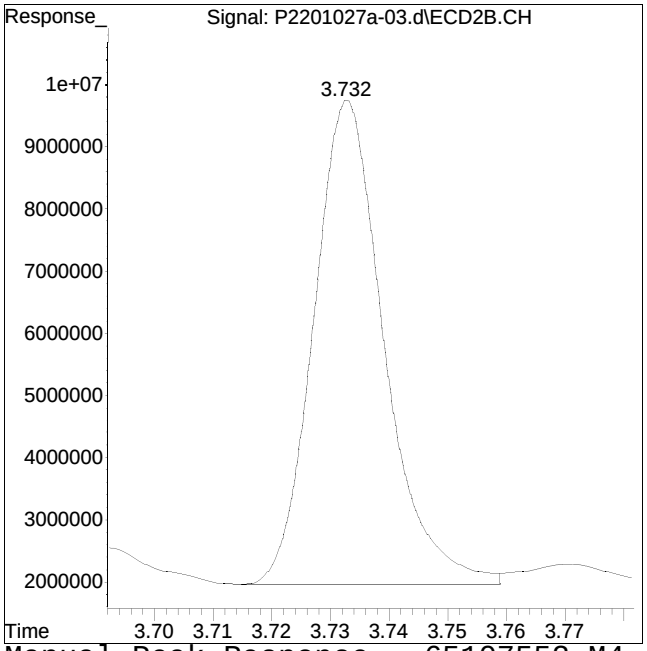
Manual Integration Report

Data Path : I:\Pest2\201027A\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2201027a-03.d Operator : pest2:cw
Date Inj'd : 10/27/2020 8:03 am Instrument : PEST 2
Sample : wg1426966-1,42e,,+1660 lvi Quant Date : 10/27/2020 8:23 am

Compound #63: 1260-4 #2



Original Peak Response = 69697520



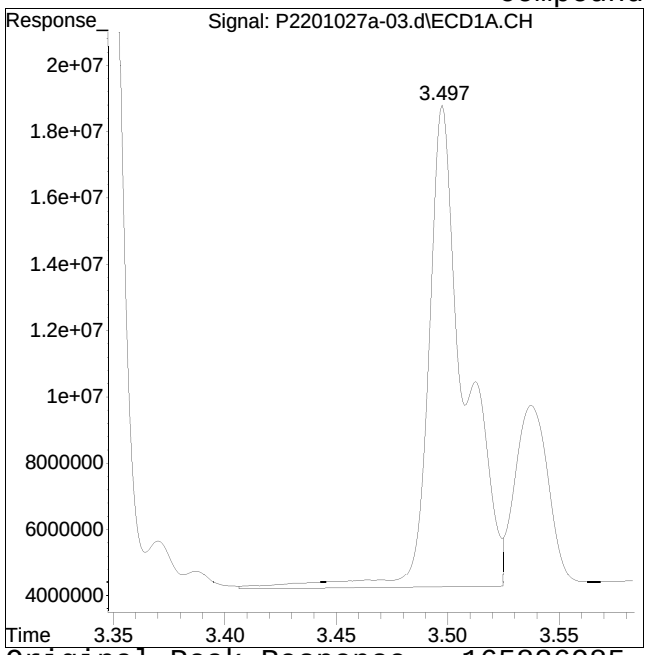
Manual Peak Response = 65107552 M4

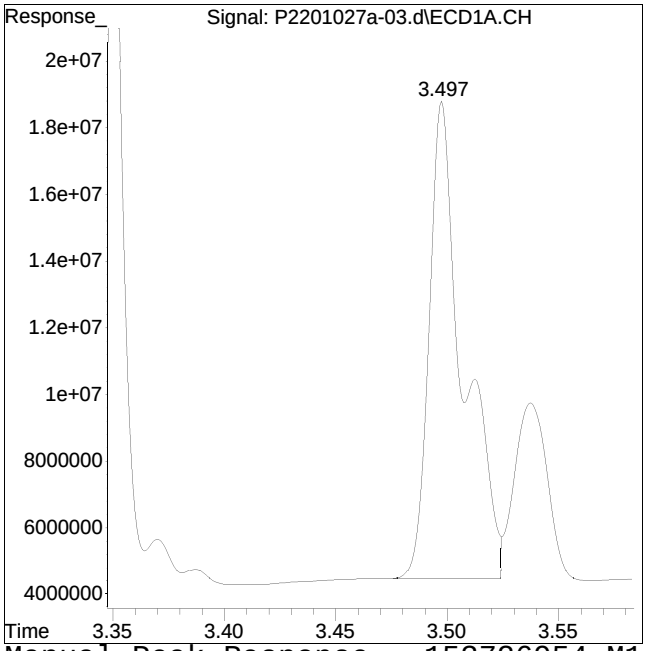
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest2\201027A\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2201027a-03.d Operator : pest2:cw
Date Inj'd : 10/27/2020 8:03 am Instrument : PEST 2
Sample : wg1426966-1,42e,,+1660 lvi Quant Date : 10/27/2020 8:23 am

Compound #13: 1260-5



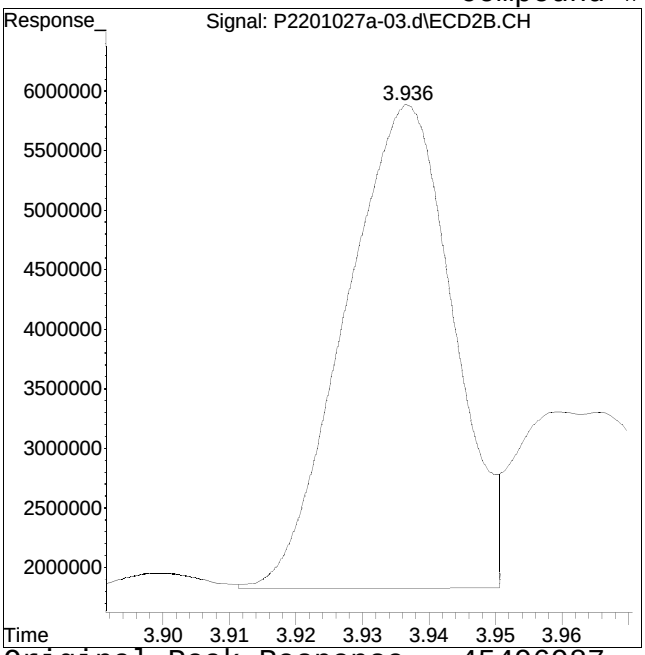


Original Peak Response = 165836985 Manual Peak Response = 153726954 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

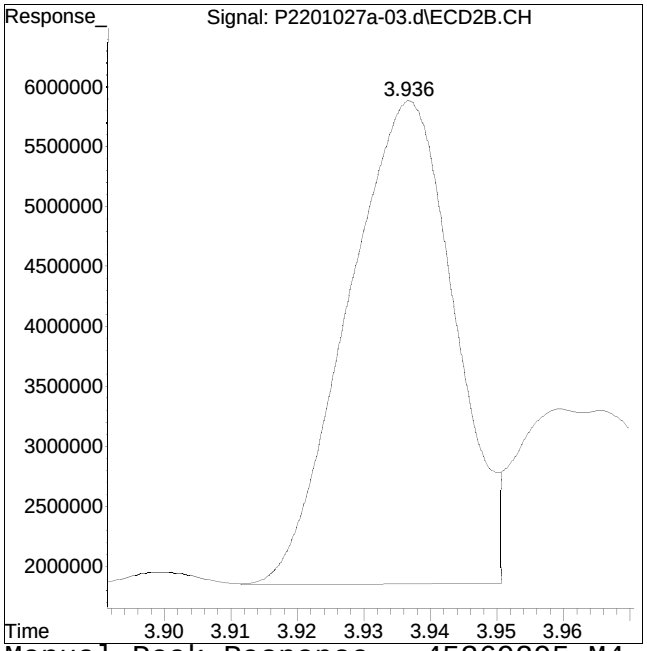
Manual Integration Report

Data Path : I:\Pest2\201027A\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2201027a-03.d Operator : pest2:cw
Date Inj'd : 10/27/2020 8:03 am Instrument : PEST 2
Sample : wg1426966-1,42e,,+1660 lvi Quant Date : 10/27/2020 8:23 am

Compound #64: 1260-5 #2



Original Peak Response = 45496987



Manual Peak Response = 45369295 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\Pest2\201029A\
Data File : P2201029a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 29 Oct 2020   7:57 am
Operator : pest2:cw
Sample   : wg1428007-1,42e,,+1660 lvi 10062 (Sig #1); +1660 lvi 10062 (Sig #2
)
Misc   : wg1428007,ical17147
ALS Vial : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 29 13:41:47 2020
Quant Method : I:\Pest2\201029A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	25.000	25.000	0.0	110	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	16.000	18.919	-18.2	127	0.00
3	s	Decachlorobiphenyl	32.000	25.665	19.8	86	0.00
4	l1	1016-1	250.000	281.175	-12.5	121	0.00
5	l1	1016-2	250.000	283.633	-13.5	124	0.00
6	l1	1016-3	250.000	282.158	-12.9	120	0.00
7	l1	1016-4	250.000	281.345	-12.5	120	0.00
8	l1	1016-5	250.000	263.630	-5.5	115	0.00
9	l2	1260-1	250.000	235.560	5.8	102	0.00
10	l2	1260-2	250.000	225.238	9.9	96	0.00
11	l2	1260-3	250.000	225.262	9.9	94	0.00
12	l2	1260-4	250.000	227.625	8.9	95	0.00
13	l2	1260-5	250.000	218.551	12.6	92	0.00
52	i	1660_1br2nb #2	25.000	25.000	0.0	88	0.00
53	s	2,4,5,6-Tetrachloro-m-xylen	16.000	17.820	-11.4	98	0.00
54	s	Decachlorobiphenyl #2	32.000	30.993	3.1	88	0.00
55	l1	1016-1 #2	250.000	269.376	-7.8	100	0.00
56	l1	1016-2 #2	250.000	274.392	-9.8	97	0.00
57	l1	1016-3 #2	250.000	273.386	-9.4	97	0.00
58	l1	1016-4 #2	250.000	264.584	-5.8	97	0.00
59	l1	1016-5 #2	250.000	270.151	-8.1	96	0.00
60	l2	1260-1 #2	250.000	250.268	-0.1	89	0.00
61	l2	1260-2 #2	250.000	249.987	0.0	90	0.00
62	l2	1260-3 #2	250.000	248.711	0.5	88	0.00
63	l2	1260-4 #2	250.000	246.344	1.5	86	0.00
64	l2	1260-5 #2	250.000	244.290	2.3	86	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\Pest2\201029A\
Data File : P2201029a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 29 Oct 2020   7:57 am
Operator : pest2:cw
Sample   : wg1428007-1,42e,,+1660 lvi 10062 (Sig #1); +1660 lvi 10062 (Sig #2
)
Misc   : wg1428007,ical17147
ALS Vial : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 29 13:41:47 2020
Quant Method : I:\Pest2\201029A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area% Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\201029A\
Data File : P2201029a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Oct 2020 7:57 am
Operator : pest2:cw
Sample : wg1428007-1,42e,,+1660 lvi 10062 (Sig #1); +1660 lvi 10062 (Sig #2
)
Misc : wg1428007,ical17147
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 29 13:41:47 2020
Quant Method : I:\Pest2\201029A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.194	1.247	159.0E6	44931290	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.486	1.629	163.1E6	43462126	18.919	17.820
	Spiked Amount	20.000	Range 30 - 150		Recovery =	94.60%	89.10%
3) s	Decachlorobi	4.085	4.598	178.0E6	57593230	25.665M4	30.993M1
	Spiked Amount	20.000	Range 30 - 150		Recovery =	128.32%	154.97%#
	Target Compounds						
4) l1	1016-1	1.627	1.835	42432220	12690655	281.175	269.376M4
5) l1	1016-2	1.770	2.010	96819621	27198015	283.633M1	274.392
6) l1	1016-3	1.964	2.214	191.6E6	52938885	282.158	273.386
7) l1	1016-4	2.019	2.275	77616690	20552262	281.345	264.584
8) l1	1016-5	2.191	2.488	77770365	16769181	263.630M4	270.151
	Sum 1016-1			486.2E6	130.1E6	1391.942	1351.889
	Average 1016-1					278.388	270.378
9) l2	1260-1	2.741	3.104	107.3E6	31876712	235.560M4	250.268M4
10) l2	1260-2	2.872	3.206	153.0E6	36871813	225.238M4	249.987M4
11) l2	1260-3	3.191	3.603	96193438	30205554	225.262M4	248.711M4
12) l2	1260-4	3.348	3.733	224.0E6	61445790	227.625M1	246.344M4
13) l2	1260-5	3.497	3.937	142.3E6	42618271	218.551M1	244.290
	Sum 1260-1			722.8E6	203.0E6	1132.236	1239.601
	Average 1260-1					226.447	247.920

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\201029A\
Data File : P2201029a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Oct 2020 7:57 am
Operator : pest2:cw
Sample : wg1428007-1,42e,,+1660 lvi 10062 (Sig #1); +1660 lvi 10062 (Sig #2
)
Misc : wg1428007,ical17147
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 29 13:41:47 2020
Quant Method : I:\Pest2\201029A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

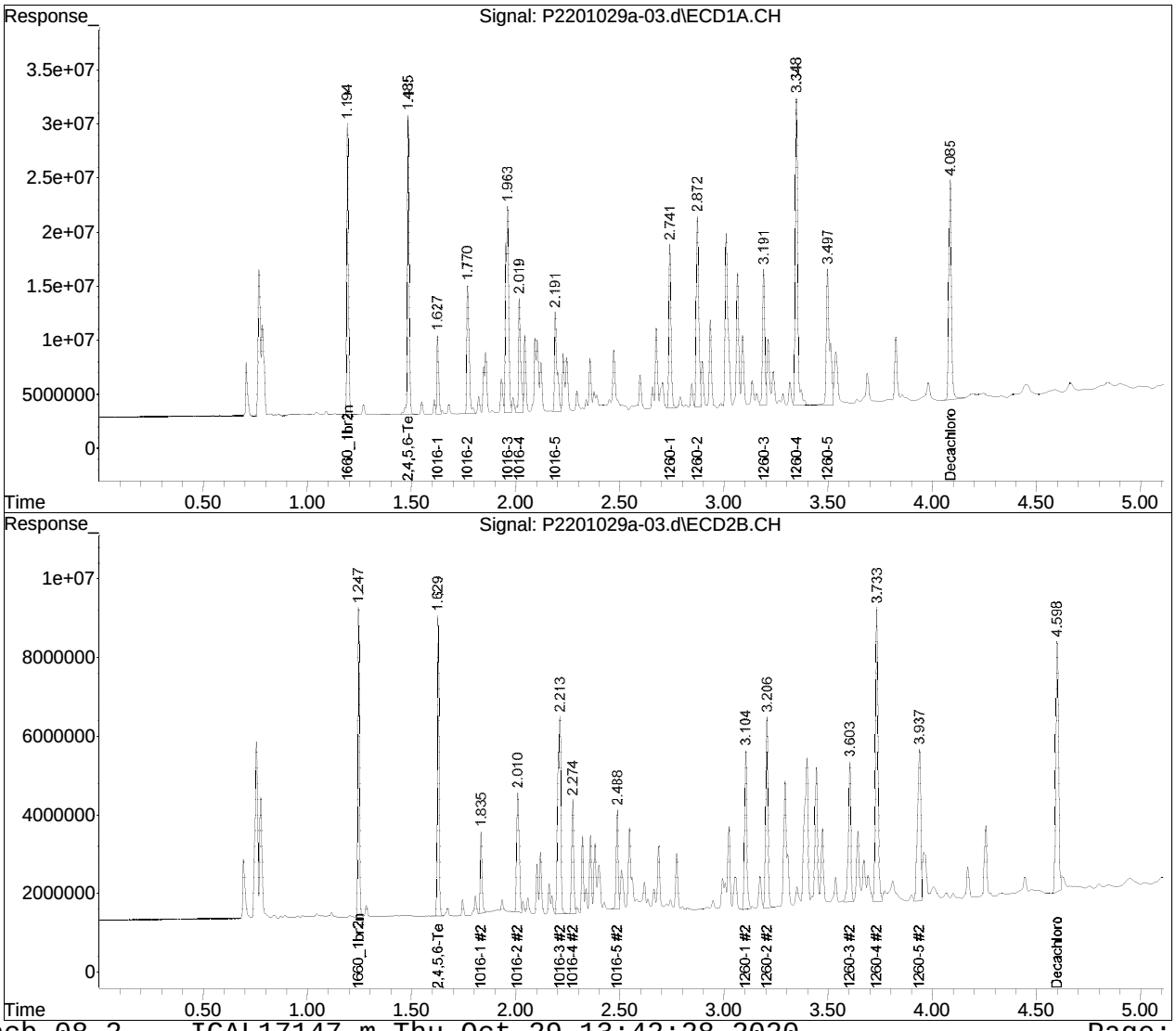
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660ation Report (QT Reviewed)

Data Path : I:\Pest2\201029A\
Data File : P2201029a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 29 Oct 2020 7:57 am
Operator : pest2:cw
Sample : wg1428007-1,42e,,+1660 lvi 10062 (Sig #1); +1660 lvi 10062 (Sig #2
Misc : wg1428007,ical17147
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 29 13:41:47 2020
Quant Method : I:\Pest2\201029A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

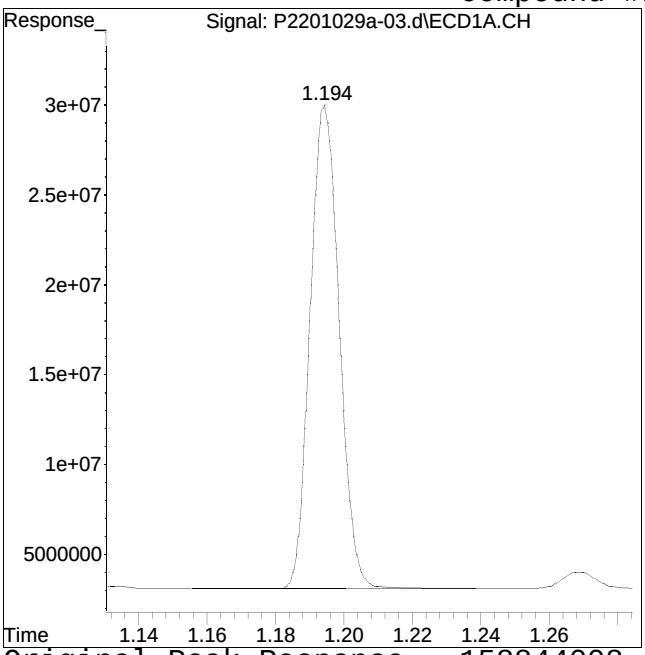
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

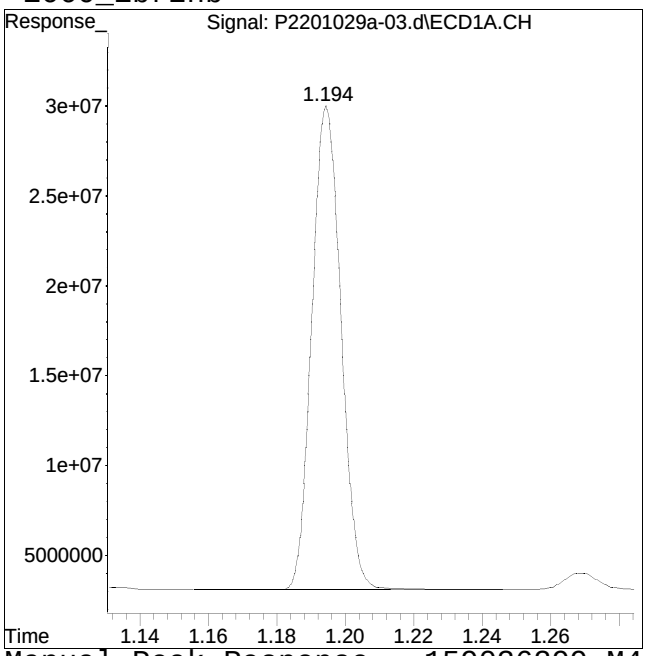


Manual Integration Report

Data Path : I:\Pest2\201029A\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2201029a-03.d Operator : pest2:cw
Date Inj'd : 10/29/2020 7:57 am Instrument : PEST 2
Sample : wg1428007-1,42e,,+1660 lvi Quant Date : 10/29/2020 8:14 am

Compound #1: 1660_1br2nb



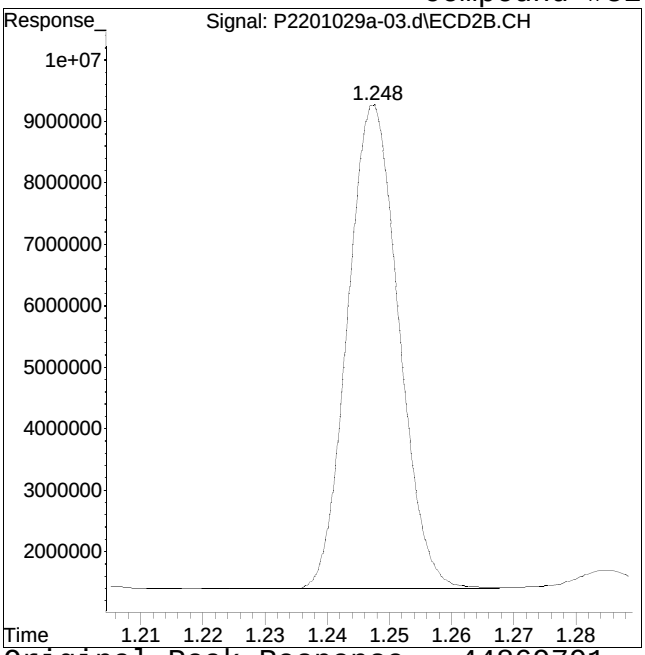


Original Peak Response = 158844008 Manual Peak Response = 159036299 M4
M4 = Poor automated baseline construction.

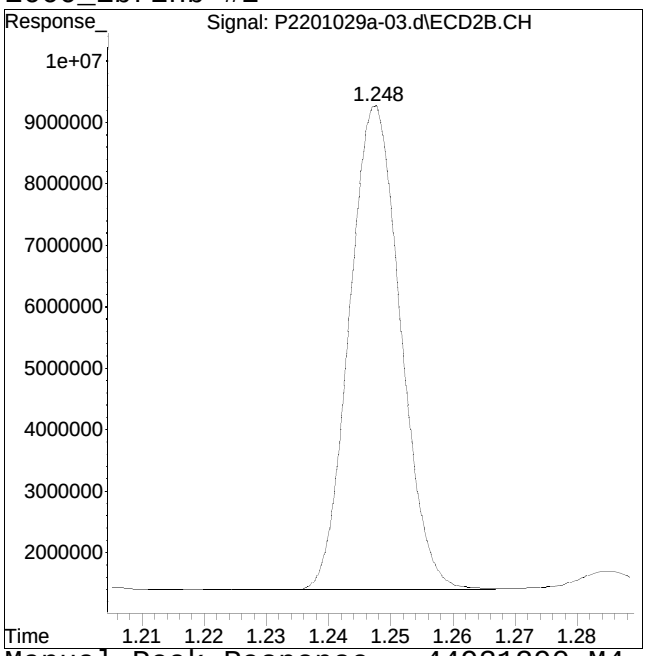
Manual Integration Report

Data Path : I:\Pest2\201029A\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2201029a-03.d Operator : pest2:cw
Date Inj'd : 10/29/2020 7:57 am Instrument : PEST 2
Sample : wg1428007-1,42e,,+1660 lvi Quant Date : 10/29/2020 8:14 am

Compound #52: 1660_1br2nb #2



Original Peak Response = 44869791



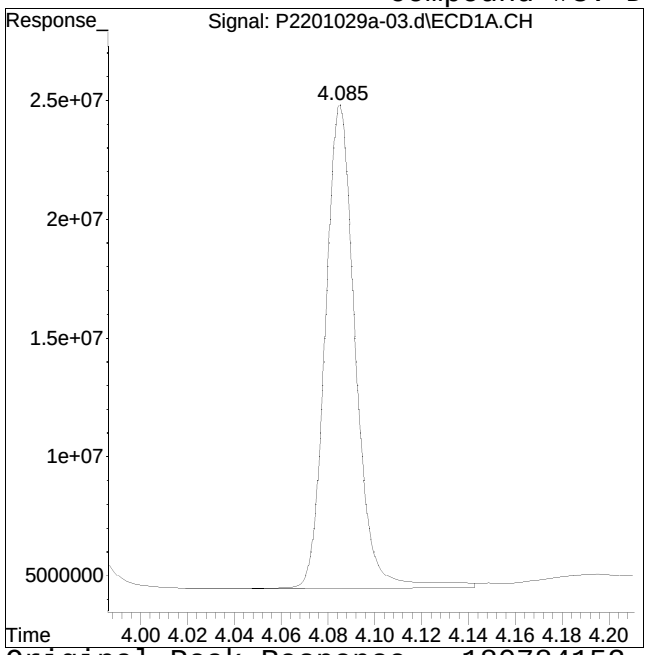
Manual Peak Response = 44931290 M4

M4 = Poor automated baseline construction.

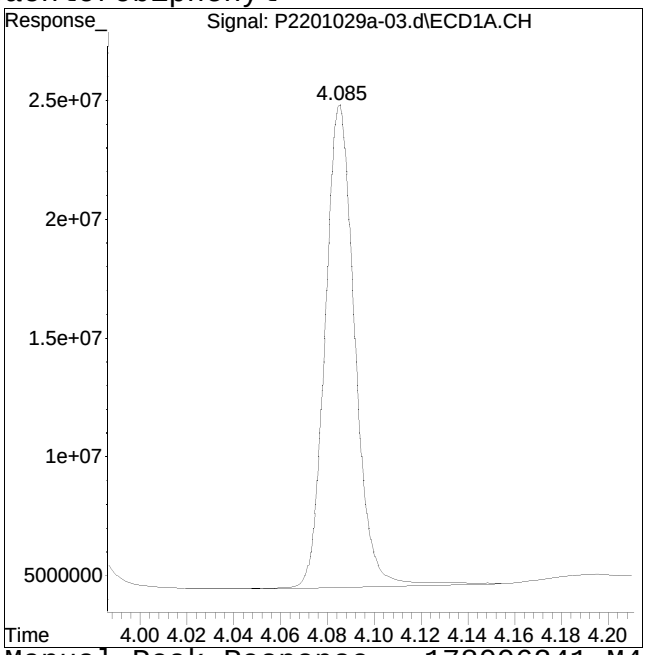
Manual Integration Report

Data Path : I:\Pest2\201029A\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2201029a-03.d Operator : pest2:cw
Date Inj'd : 10/29/2020 7:57 am Instrument : PEST 2
Sample : wg1428007-1,42e,,+1660 lvi Quant Date : 10/29/2020 8:14 am

Compound #3: Decachlorobiphenyl



Original Peak Response = 180784152



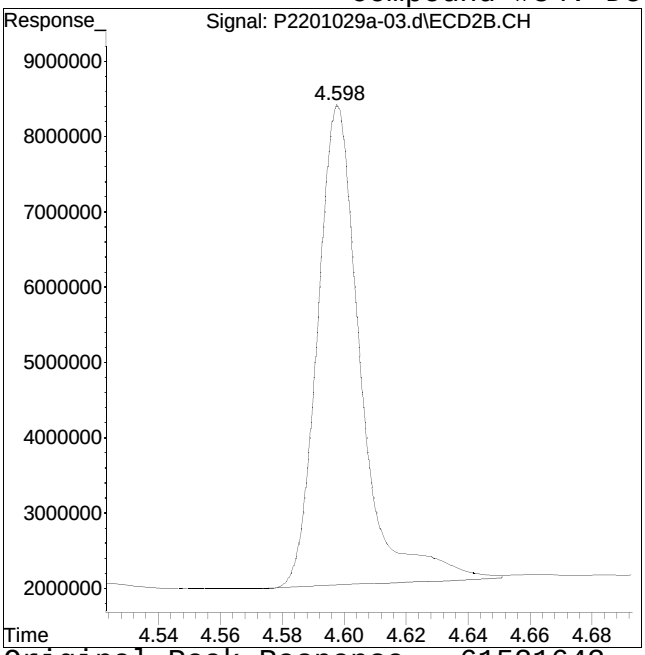
Manual Peak Response = 178006241 M4

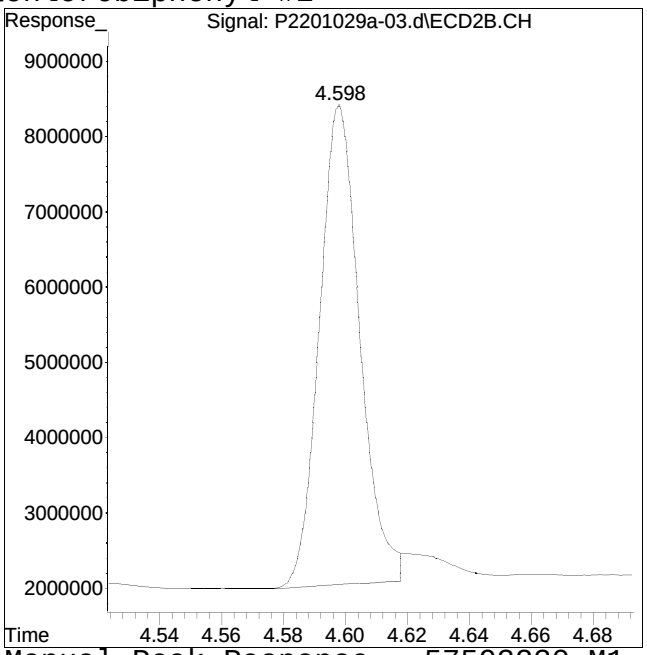
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest2\201029A\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2201029a-03.d Operator : pest2:cw
Date Inj'd : 10/29/2020 7:57 am Instrument : PEST 2
Sample : wg1428007-1,42e,,+1660 lvi Quant Date : 10/29/2020 8:14 am

Compound #54: Decachlorobiphenyl #2



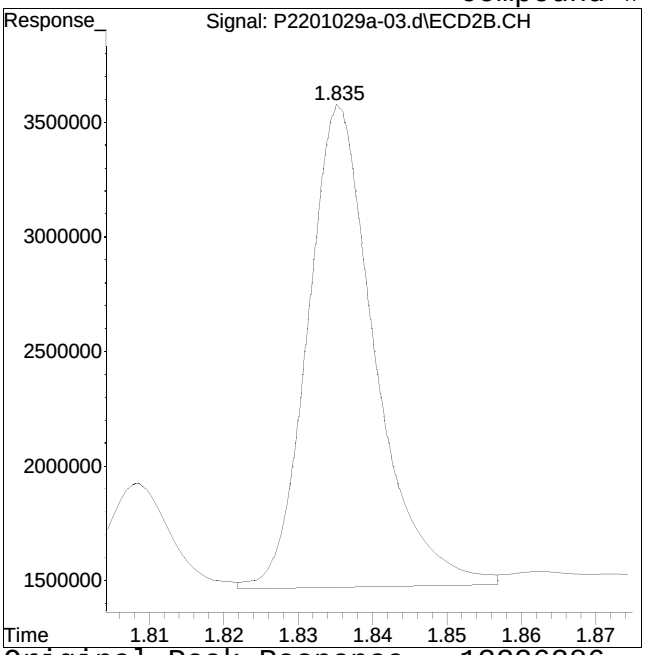


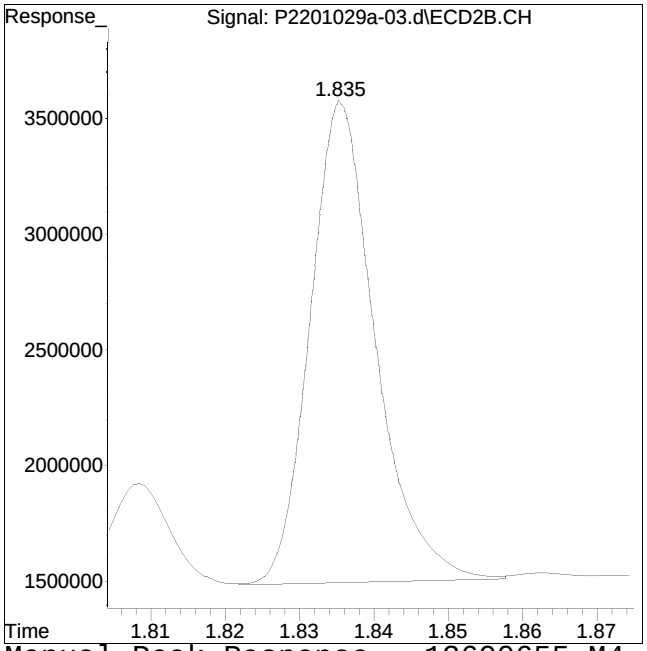
Original Peak Response = 61521642 Manual Peak Response = 57593230 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\Pest2\201029A\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2201029a-03.d Operator : pest2:cw
Date Inj'd : 10/29/2020 7:57 am Instrument : PEST 2
Sample : wg1428007-1,42e,,+1660 lvi Quant Date : 10/29/2020 8:14 am

Compound #55: 1016-1 #2



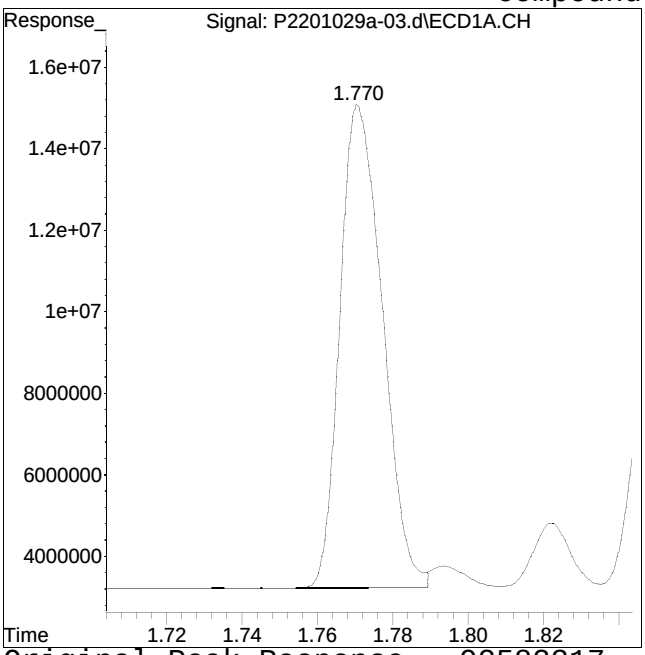


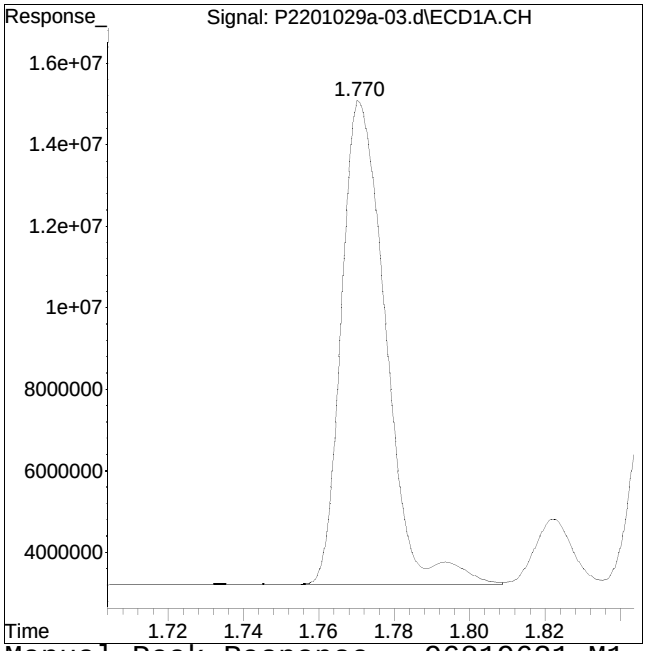
Original Peak Response = 13226286 Manual Peak Response = 12690655 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest2\201029A\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2201029a-03.d Operator : pest2:cw
Date Inj'd : 10/29/2020 7:57 am Instrument : PEST 2
Sample : wg1428007-1,42e,,+1660 lvi Quant Date : 10/29/2020 8:14 am

Compound #5: 1016-2



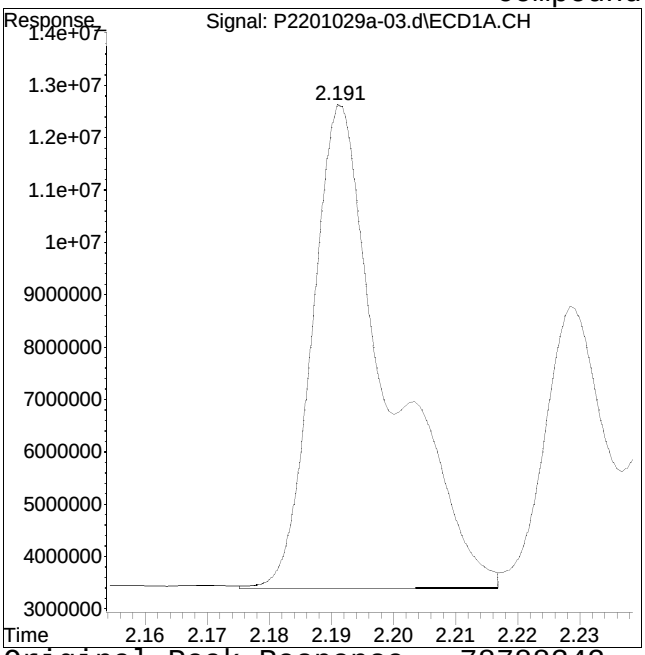


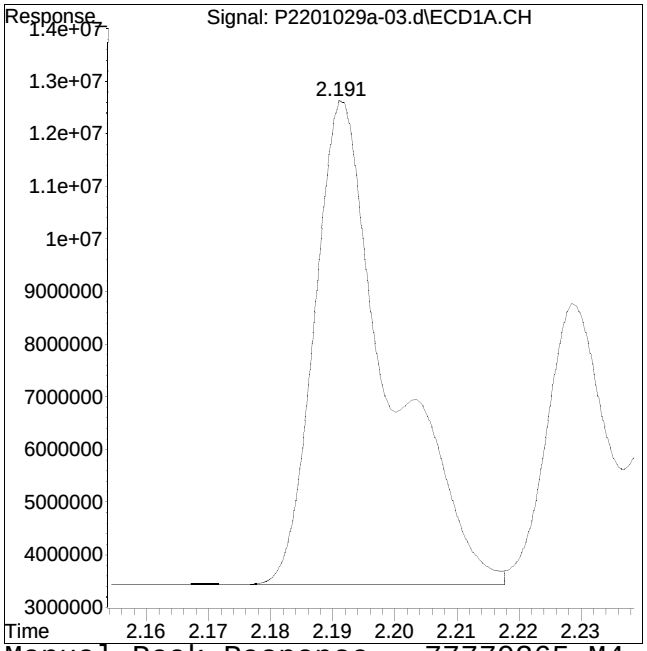
Original Peak Response = 92582317 Manual Peak Response = 96819621 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\Pest2\201029A\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2201029a-03.d Operator : pest2:cw
Date Inj'd : 10/29/2020 7:57 am Instrument : PEST 2
Sample : wg1428007-1,42e,,+1660 lvi Quant Date : 10/29/2020 8:14 am

Compound #8: 1016-5



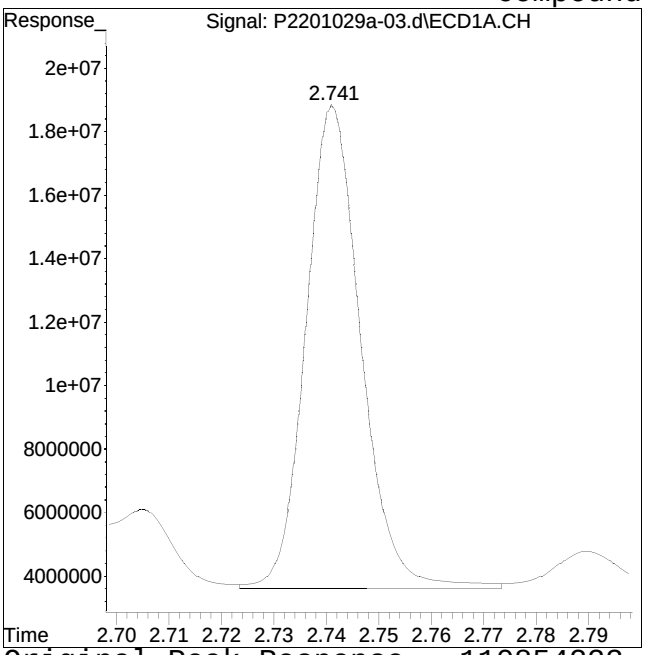


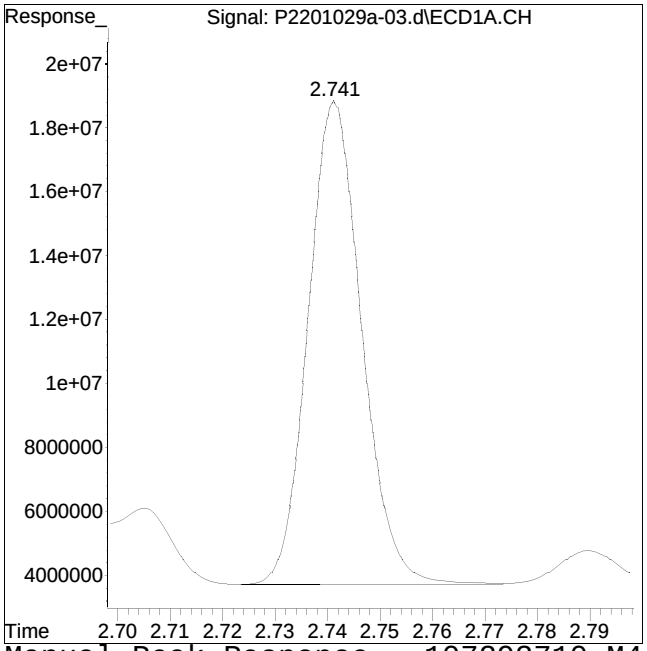
Original Peak Response = 78788342 Manual Peak Response = 77770365 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest2\201029A\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2201029a-03.d Operator : pest2:cw
Date Inj'd : 10/29/2020 7:57 am Instrument : PEST 2
Sample : wg1428007-1,42e,,+1660 lvi Quant Date : 10/29/2020 8:14 am

Compound #9: 1260-1



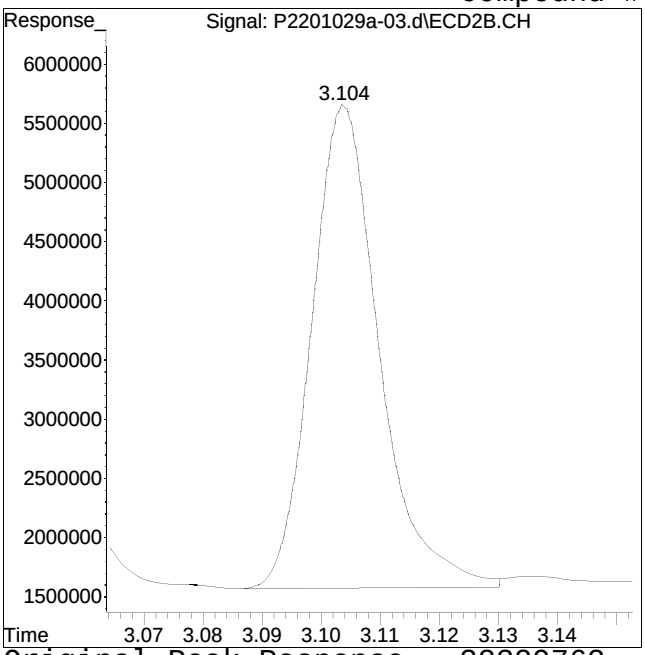


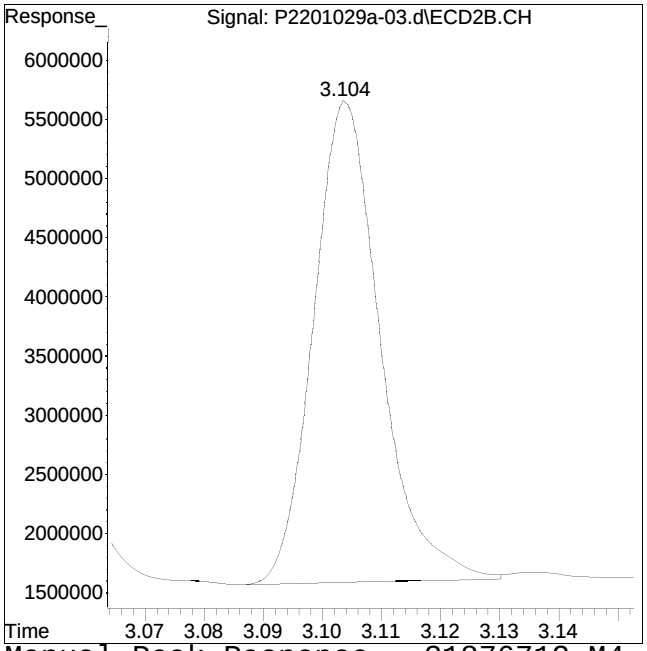
Original Peak Response = 110854223 Manual Peak Response = 107293710 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest2\201029A\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2201029a-03.d Operator : pest2:cw
Date Inj'd : 10/29/2020 7:57 am Instrument : PEST 2
Sample : wg1428007-1,42e,,+1660 lvi Quant Date : 10/29/2020 8:14 am

Compound #60: 1260-1 #2



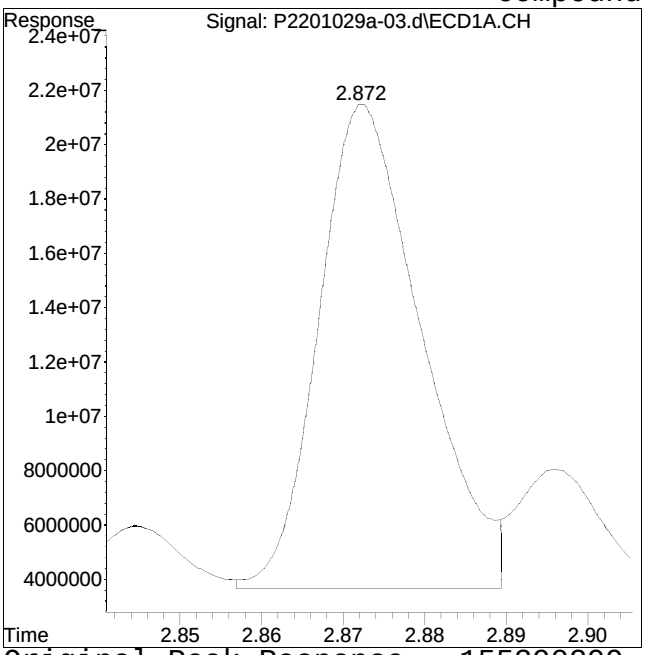


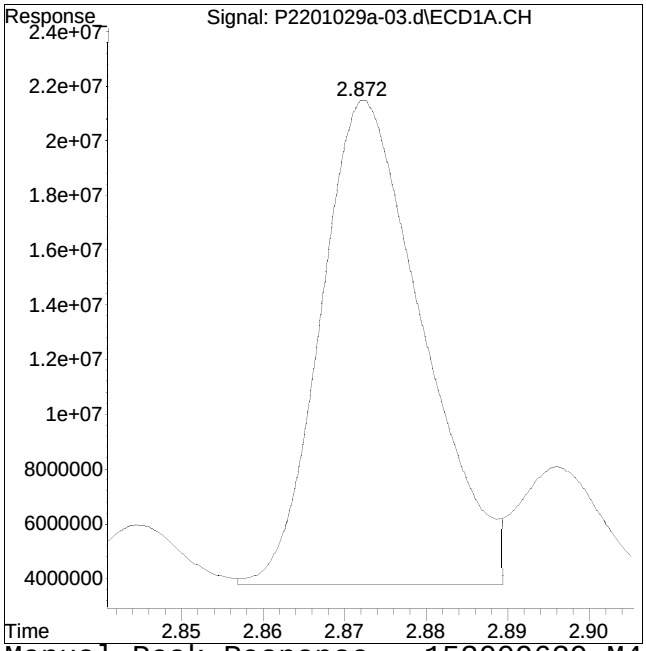
Original Peak Response = 32329762 Manual Peak Response = 31876712 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest2\201029A\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2201029a-03.d Operator : pest2:cw
Date Inj'd : 10/29/2020 7:57 am Instrument : PEST 2
Sample : wg1428007-1,42e,,+1660 lvi Quant Date : 10/29/2020 8:14 am

Compound #10: 1260-2



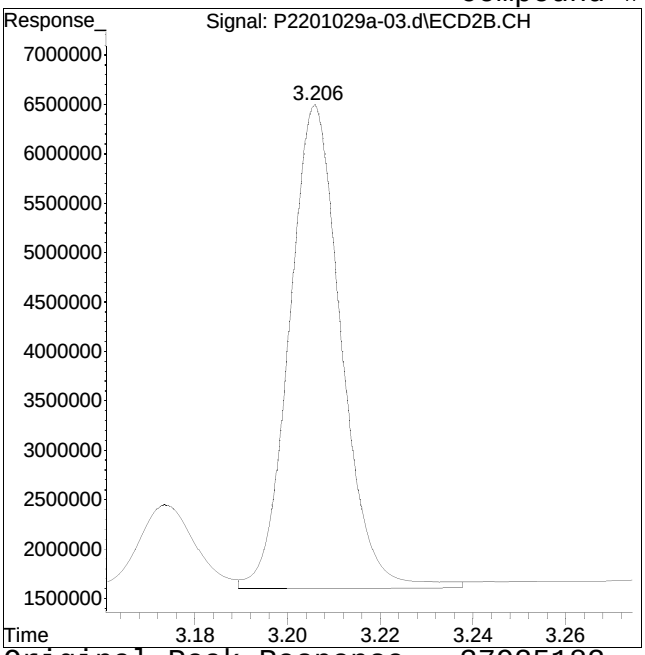


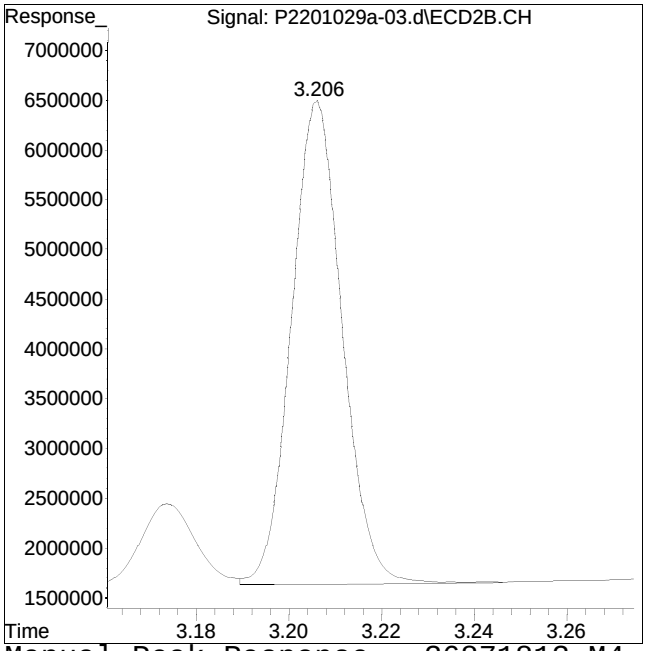
Original Peak Response = 155390299 Manual Peak Response = 153009639 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest2\201029A\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2201029a-03.d Operator : pest2:cw
Date Inj'd : 10/29/2020 7:57 am Instrument : PEST 2
Sample : wg1428007-1,42e,,+1660 lvi Quant Date : 10/29/2020 8:14 am

Compound #61: 1260-2 #2



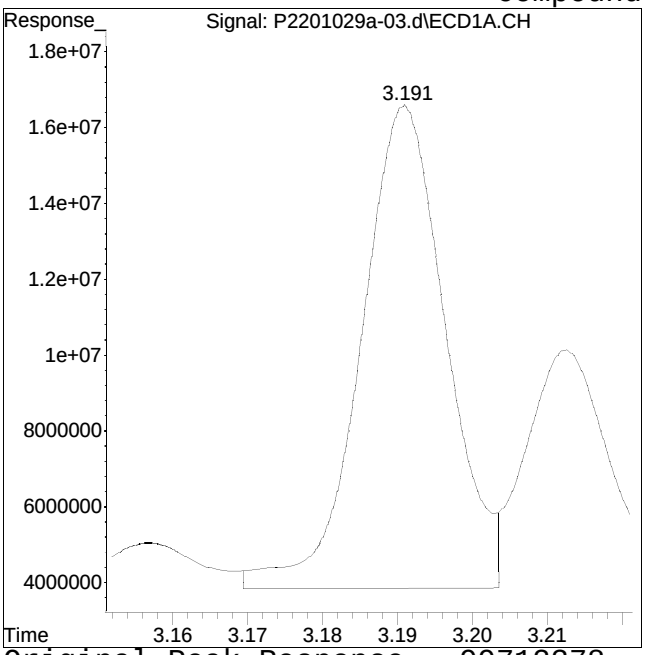


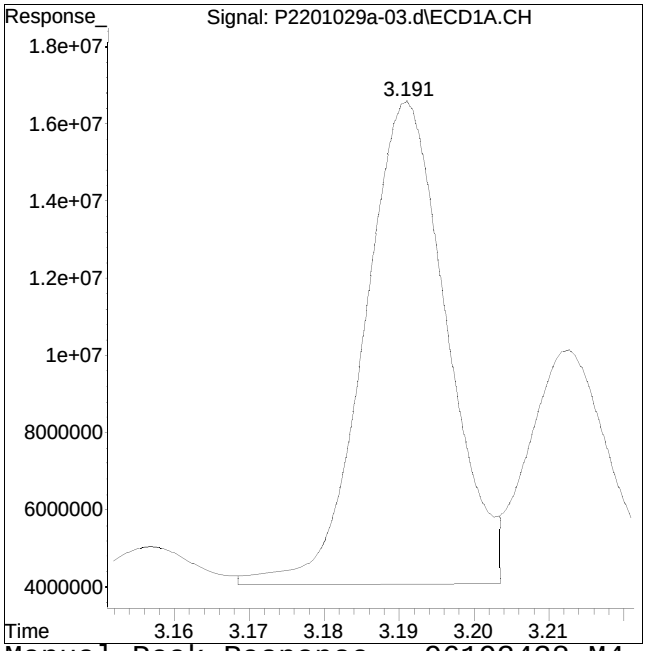
Original Peak Response = 37925182 Manual Peak Response = 36871813 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest2\201029A\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2201029a-03.d Operator : pest2:cw
Date Inj'd : 10/29/2020 7:57 am Instrument : PEST 2
Sample : wg1428007-1,42e,,+1660 lvi Quant Date : 10/29/2020 8:14 am

Compound #11: 1260-3



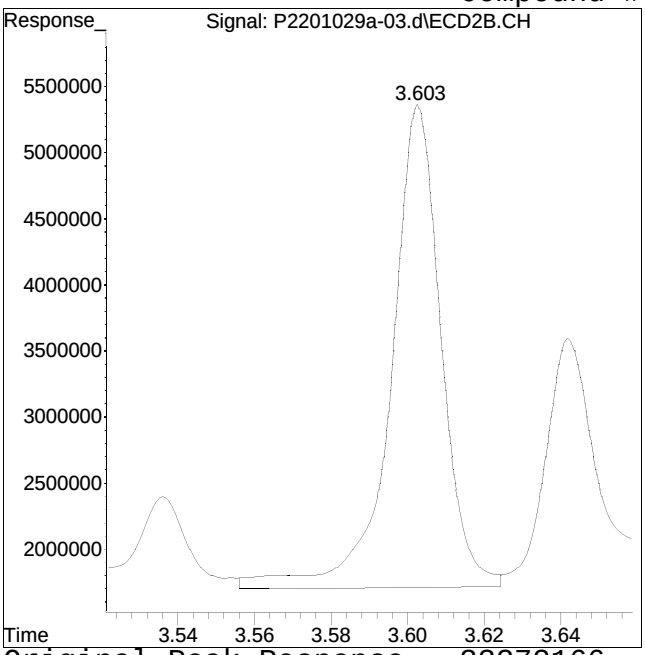


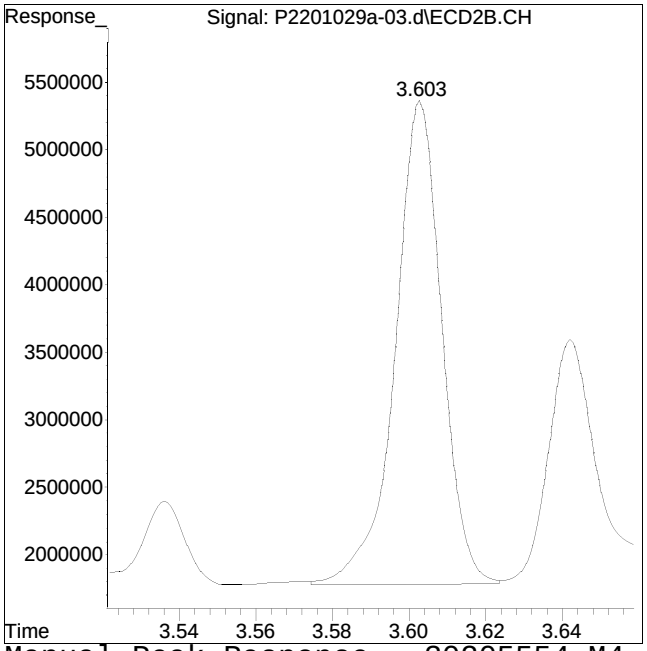
Original Peak Response = 99712378 Manual Peak Response = 96193438 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest2\201029A\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2201029a-03.d Operator : pest2:cw
Date Inj'd : 10/29/2020 7:57 am Instrument : PEST 2
Sample : wg1428007-1,42e,,+1660 lvi Quant Date : 10/29/2020 8:14 am

Compound #62: 1260-3 #2



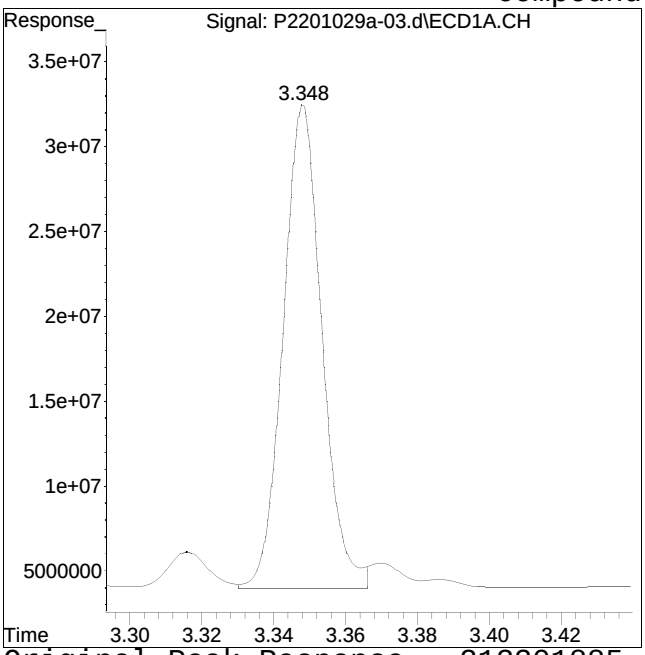


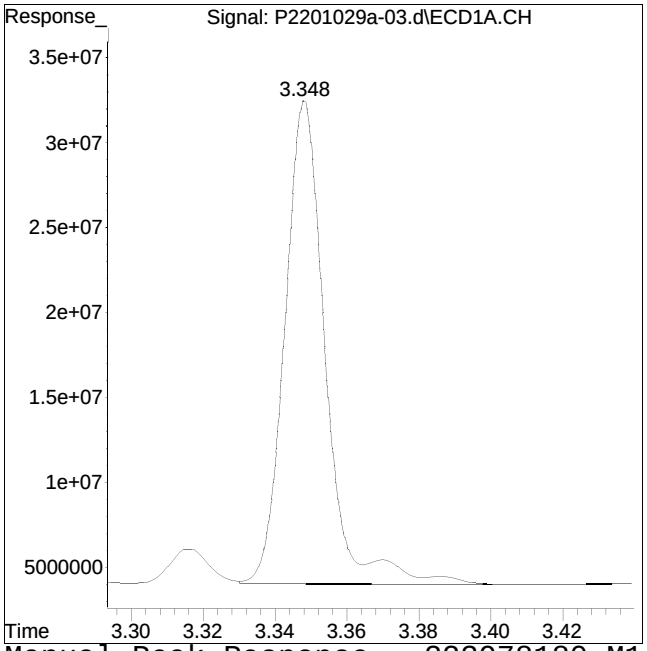
Original Peak Response = 33372166 Manual Peak Response = 30205554 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest2\201029A\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2201029a-03.d Operator : pest2:cw
Date Inj'd : 10/29/2020 7:57 am Instrument : PEST 2
Sample : wg1428007-1,42e,,+1660 lvi Quant Date : 10/29/2020 8:14 am

Compound #12: 1260-4



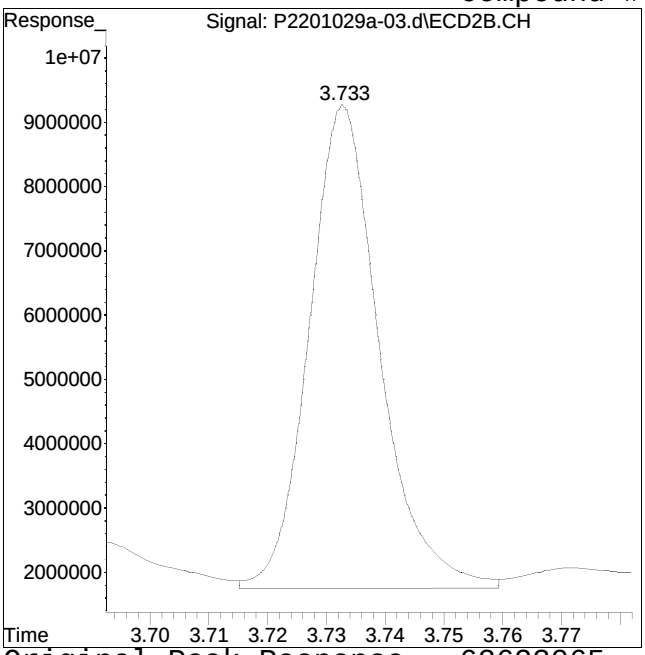


Original Peak Response = 213301885 Manual Peak Response = 223978180 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

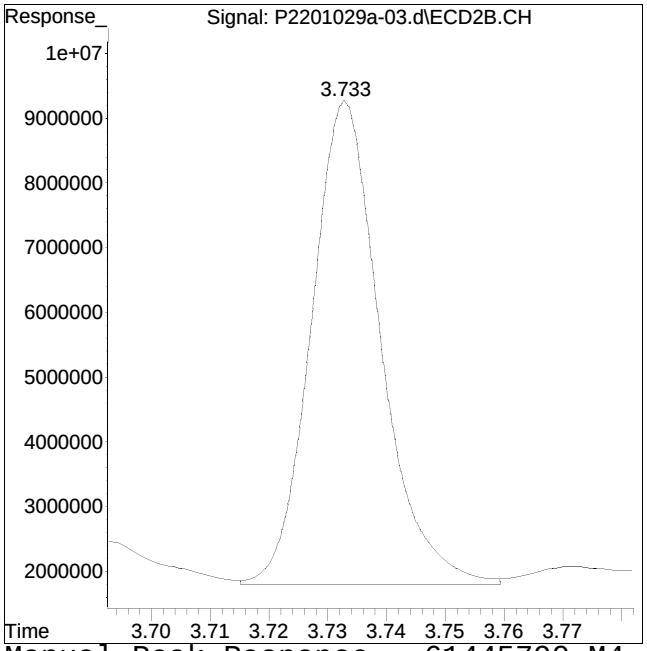
Manual Integration Report

Data Path : I:\Pest2\201029A\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2201029a-03.d Operator : pest2:cw
Date Inj'd : 10/29/2020 7:57 am Instrument : PEST 2
Sample : wg1428007-1,42e,,+1660 lvi Quant Date : 10/29/2020 8:14 am

Compound #63: 1260-4 #2



Original Peak Response = 62623065



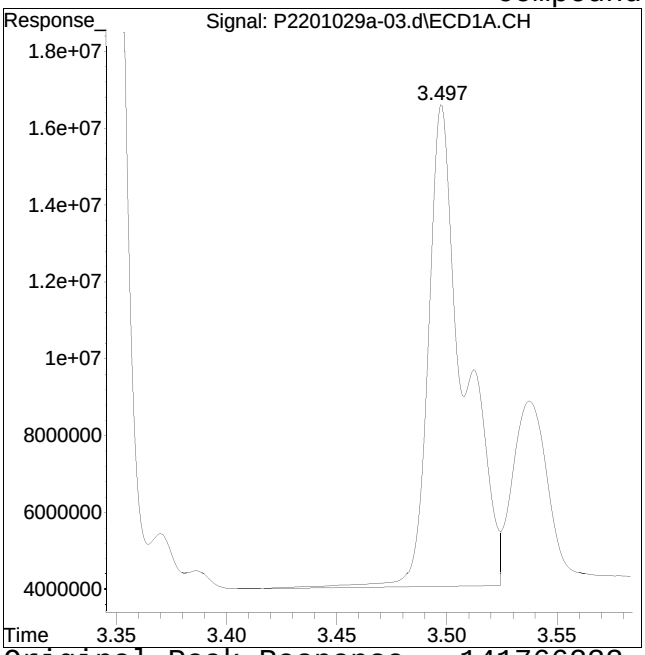
Manual Peak Response = 61445790 M4

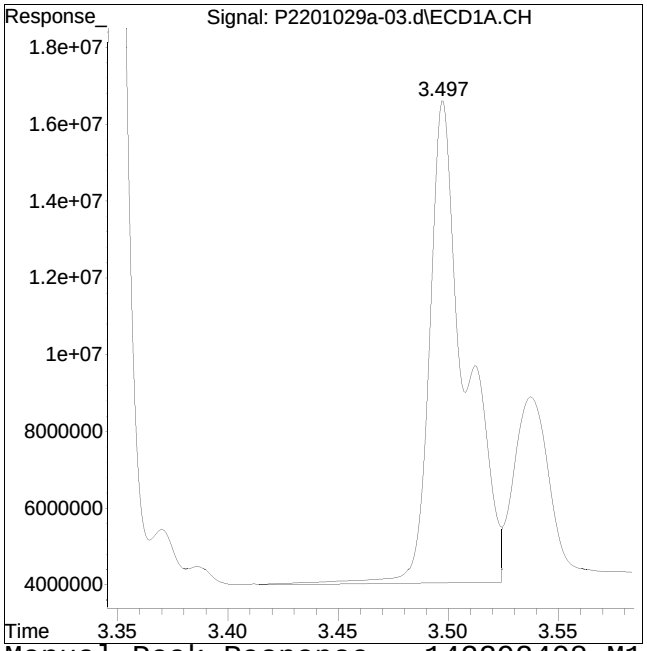
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest2\201029A\ QMethod : P2_pcb_08_28_20_LVI_ugL_
Data File : P2201029a-03.d Operator : pest2:cw
Date Inj'd : 10/29/2020 7:57 am Instrument : PEST 2
Sample : wg1428007-1,42e,,+1660 lvi Quant Date : 10/29/2020 8:14 am

Compound #13: 1260-5





Original Peak Response = 141766233 Manual Peak Response = 142292408 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

RT Shift Summary

Identification Summary
Form 10
PCBs

Client	**: Impact Environmental**	**Lab Number**	**: L2046790**
Project Name	**: 13-12 BEACH CHANNEL DRIVE**	**Project Number**	**: 15209**

No Detections Found

Aroclor Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\201027A\
Data File : P2201027a-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Oct 2020 3:00 pm
Operator : pest2:cw
Sample : WG1426949-1,42,,
Misc : wg1426966,WG1426949,ical17147
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 27 15:59:14 2020
Quant Method : I:\Pest2\201027A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest2\201027A\P2201027a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.195	1.249	202.9E6	58513624	25.000M4	25.000
	Standard Area 1 : #1 = 170881833				Recovery = 118.74%		
	Standard Area 1 : #2 = 47399024				Recovery = 123.45%		
14) i	2154_1br2nb	1.195	1.249	202.9E6	58513624	25.000M4	25.000
23) i	4268_1br2nb	1.195	1.249	202.9E6	58513624	25.000M4	25.000
34) i	1248_1br2nb	1.195	1.249	202.9E6	58513624	25.000M4	25.000
40) i	3262_1br2nb	1.195	1.249	202.9E6	58513624	25.000M4	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.487	1.630	175.3E6	46439211	15.935	14.621
	Spiked Amount 20.000	Range 30 - 150			Recovery = 79.68%		73.11%
3) s	Decachlorobi	4.085	4.594	143.1E6	37534678	16.174M4	15.510M4
	Spiked Amount 20.000	Range 30 - 150			Recovery = 80.87%		77.55%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1016-1			0	0	N.D.	N.D.
Average 1016-1						0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2	1260-4	0.000	0.000	0	0	N.D.	N.D.
13) l2	1260-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1						0.000	0.000

Data Path : I:\Pest2\201027A\
Data File : P2201027a-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Oct 2020 3:00 pm
Operator : pest2:cw
Sample : WG1426949-1,42,,
Misc : wg1426966,WG1426949,ical17147
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 27 15:59:14 2020
Quant Method : I:\Pest2\201027A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest2\201027A\P2201027a-03.d
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D.	N.D.
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D.	N.D.
37) l7 1248-3	0.000	0.000	0	0	N.D.	N.D.
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\201027A\
Data File : P2201027a-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Oct 2020 3:00 pm
Operator : pest2:cw
Sample : WG1426949-1,42,,
Misc : wg1426966,WG1426949,ical17147
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 27 15:59:14 2020
Quant Method : I:\Pest2\201027A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest2\201027A\P2201027a-03.d
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

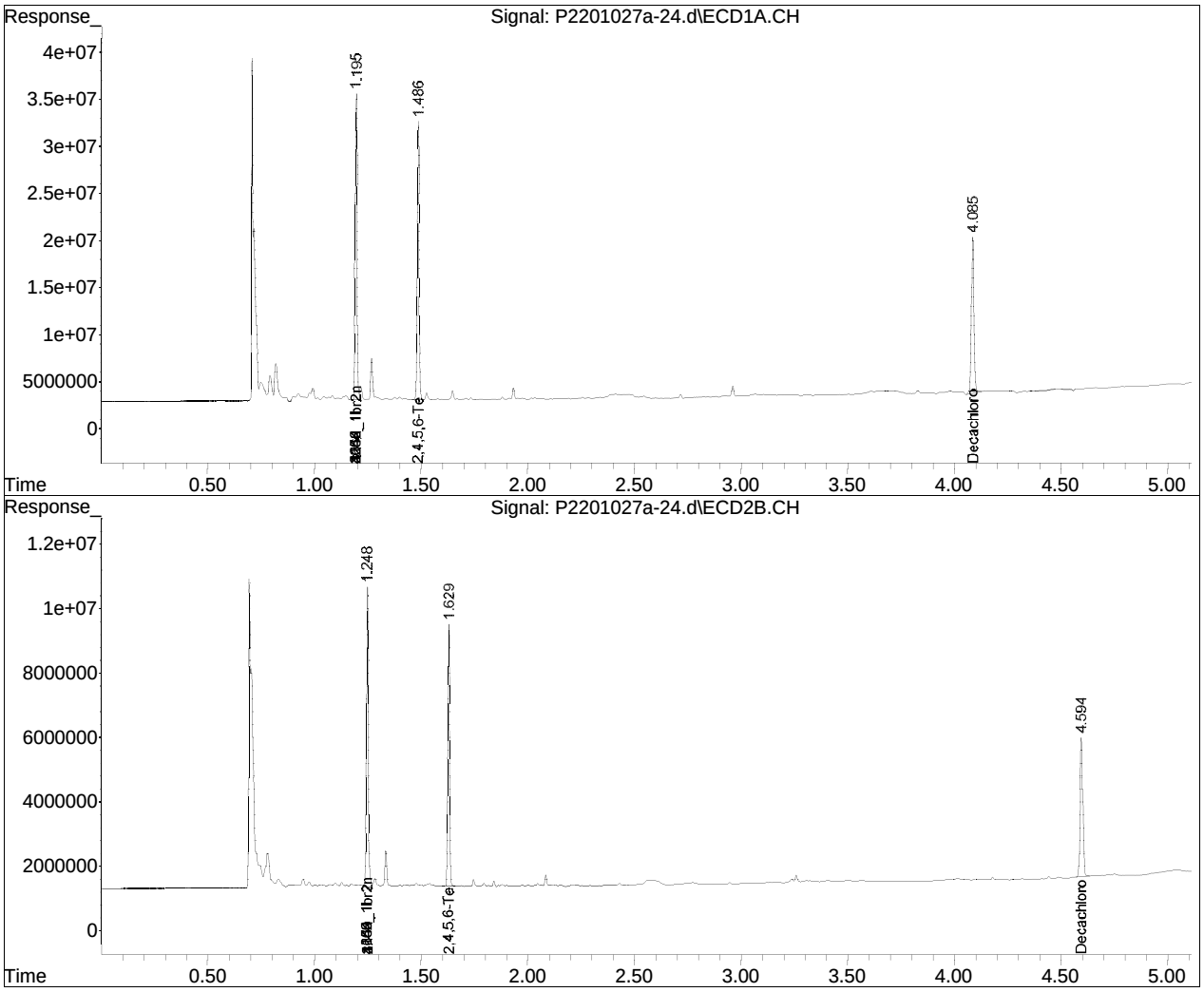
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listed-03.d••ed)

Data Path : I:\Pest2\201027A\
Data File : P2201027a-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Oct 2020 3:00 pm
Operator : pest2:cw
Sample : WG1426949-1,42,,
Misc : wg1426966,WG1426949,ical17147
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 27 15:59:14 2020
Quant Method : I:\Pest2\201027A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

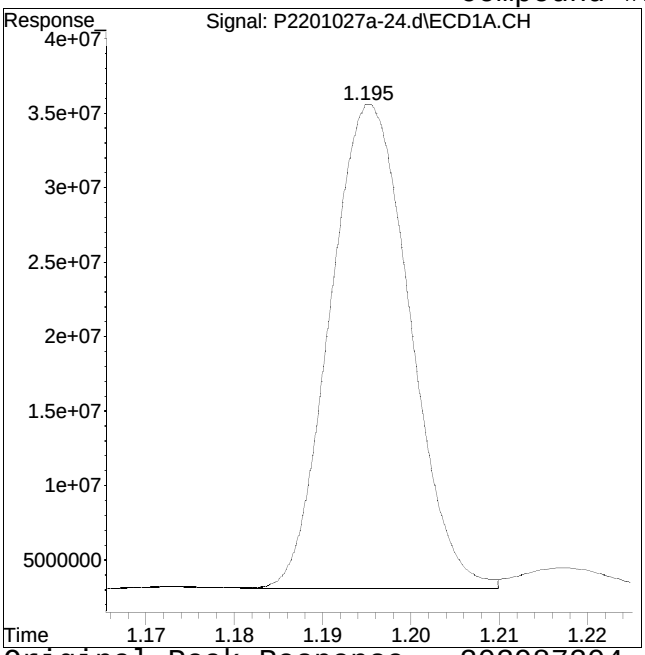


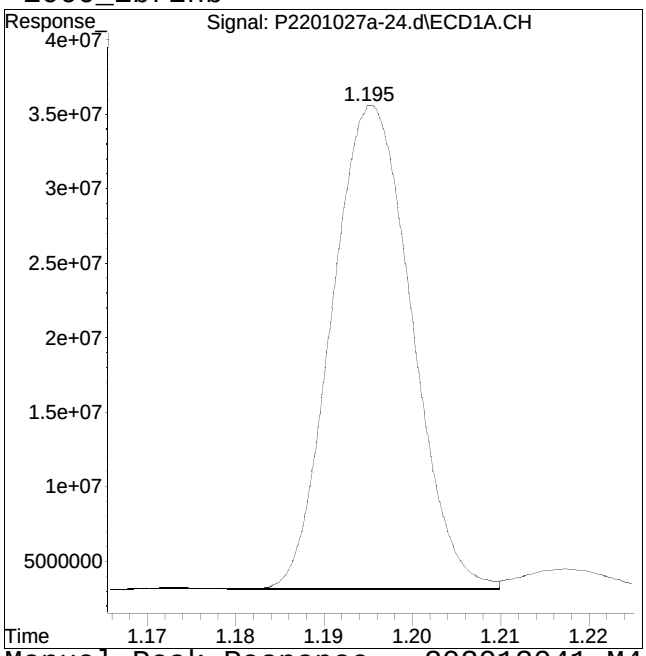
Manual Integration Report

Data Path : I:\Pest2\201027A\
Data File : P2201027a-24.d
Date Inj'd : 10/27/2020 3:00 pm
Sample : WG1426949-1,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/27/2020 3:56 pm

Compound #1: 1660_1br2nb





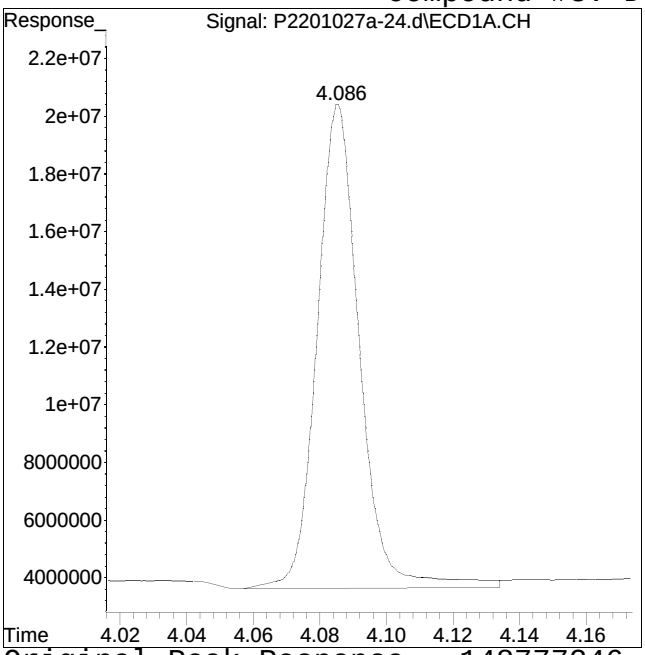
Original Peak Response = 203987304 Manual Peak Response = 202913041 M4
M4 = Poor automated baseline construction.

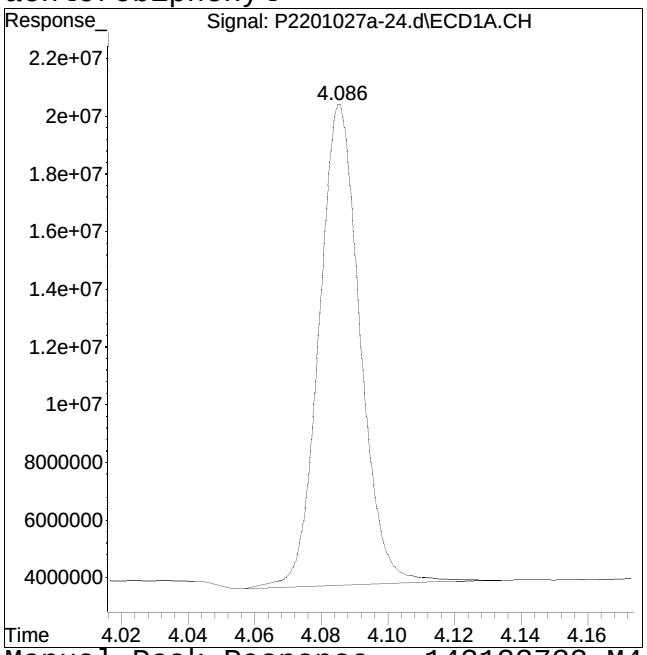
Manual Integration Report

Data Path : I:\Pest2\201027A\
Data File : P2201027a-24.d
Date Inj'd : 10/27/2020 3:00 pm
Sample : WG1426949-1,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/27/2020 3:56 pm

Compound #3: Decachlorobiphenyl





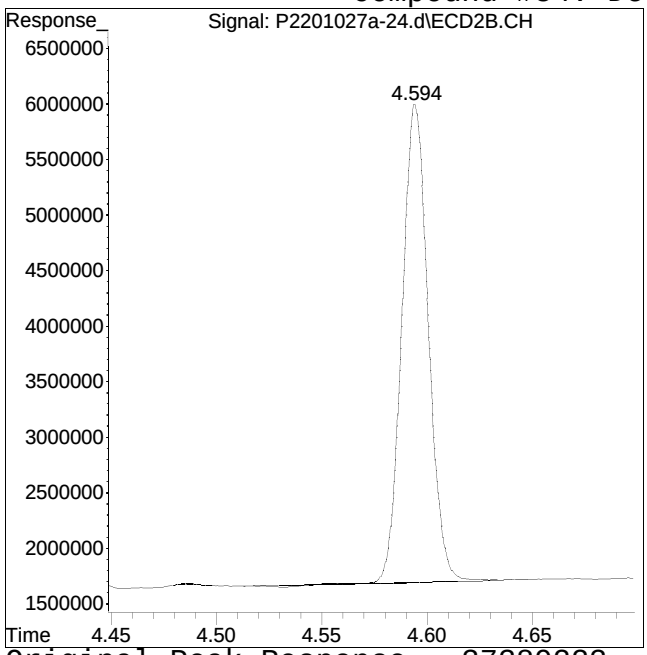
Original Peak Response = 148777246 Manual Peak Response = 143123733 M4
M4 = Poor automated baseline construction.

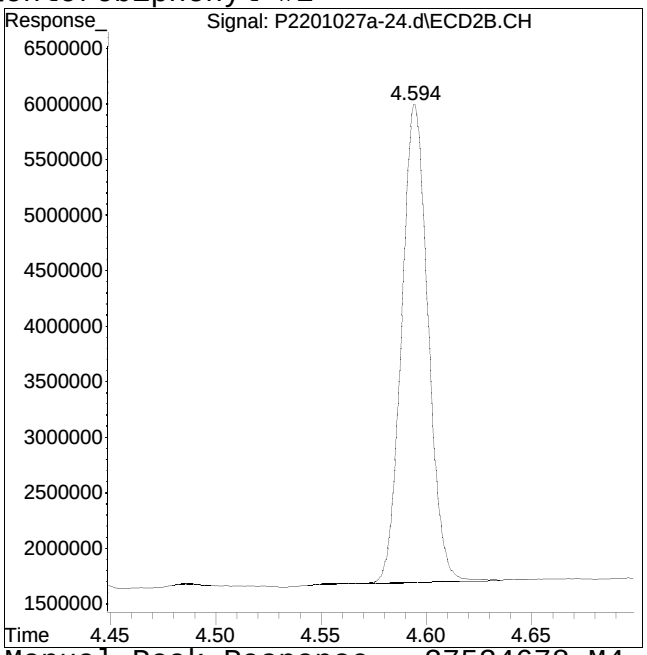
Manual Integration Report

Data Path : I:\Pest2\201027A\
Data File : P2201027a-24.d
Date Inj'd : 10/27/2020 3:00 pm
Sample : WG1426949-1,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/27/2020 3:56 pm

Compound #54: Decachlorobiphenyl #2





Original Peak Response = 37389223 Manual Peak Response = 37534678 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\201027A\
Data File : P2201027a-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Oct 2020 3:08 pm
Operator : pest2:cw
Sample : WG1426949-2,42,,
Misc : wg1426966,WG1426949,ical17147
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 27 16:00:36 2020
Quant Method : I:\Pest2\201027A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest2\201027A\P2201027a-03.d
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.196	1.249	181.4E6	51715731	25.000	25.000
Standard Area 1 : #1 = 170881833				Recovery =	106.13%	
Standard Area 1 : #2 = 47399024				Recovery =	109.11%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.487	1.630	183.4E6	48721050	18.653M1	17.355
Spiked Amount 20.000	Range 30 - 150			Recovery =	93.27%	86.78%
3) s Decachlorobi	4.083	4.591	153.8E6	39894751	19.451M4	18.652M4
Spiked Amount 20.000	Range 30 - 150			Recovery =	97.25%	93.26%
Target Compounds						
4) l1 1016-1	1.627	1.836	38851922	12848227	225.764M4	236.943
5) l1 1016-2	1.771	2.009	97548665	26485562	250.597	232.151
6) l1 1016-3	1.962	2.212	186.7E6	50983985	241.149M4	228.750
7) l1 1016-4	2.018	2.273	79785690	21002919	253.613M4	234.914
8) l1 1016-5	2.190	2.487	76915259	17270898	228.641M4	241.733
Sum 1016-1			479.8E6	128.6E6	1199.764	1174.492
Average 1016-1					239.953	234.898
9) l2 1260-1	2.740	3.103	107.7E6	33953493	207.265	231.602
10) l2 1260-2	2.872	3.205	171.5E6	35858525	221.404	211.223
11) l2 1260-3	3.191	3.602	96365990	31005698	197.891	221.808
12) l2 1260-4	3.347	3.732	243.1E6	61649529	216.614M1	214.737
13) l2 1260-5	3.496	3.935	164.2E6	44107393	221.121M1	219.658
Sum 1260-1			782.8E6	206.6E6	1064.295	1099.028
Average 1260-1					212.859	219.806
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.

Data Path : I:\Pest2\201027A\
Data File : P2201027a-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Oct 2020 3:08 pm
Operator : pest2:cw
Sample : WG1426949-2,42,,
Misc : wg1426966,WG1426949,ical17147
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 27 16:00:36 2020
Quant Method : I:\Pest2\201027A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest2\201027A\P2201027a-03.d
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

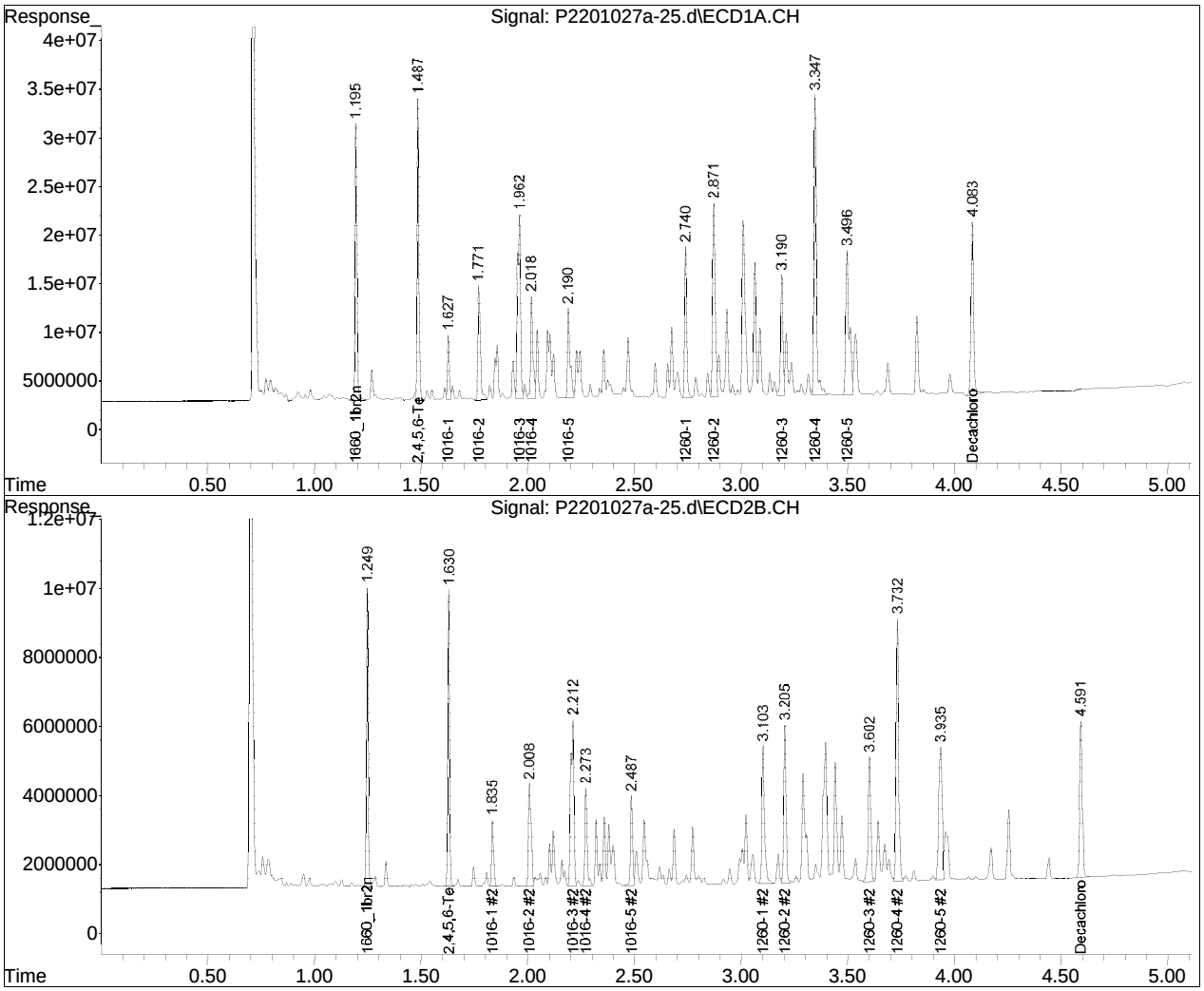
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 16602\201027A\P2201027a-03.d••ed)

Data Path : I:\Pest2\201027A\
Data File : P2201027a-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Oct 2020 3:08 pm
Operator : pest2:cw
Sample : WG1426949-2,42,,
Misc : wg1426966,WG1426949,ical17147
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 27 16:00:36 2020
Quant Method : I:\Pest2\201027A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

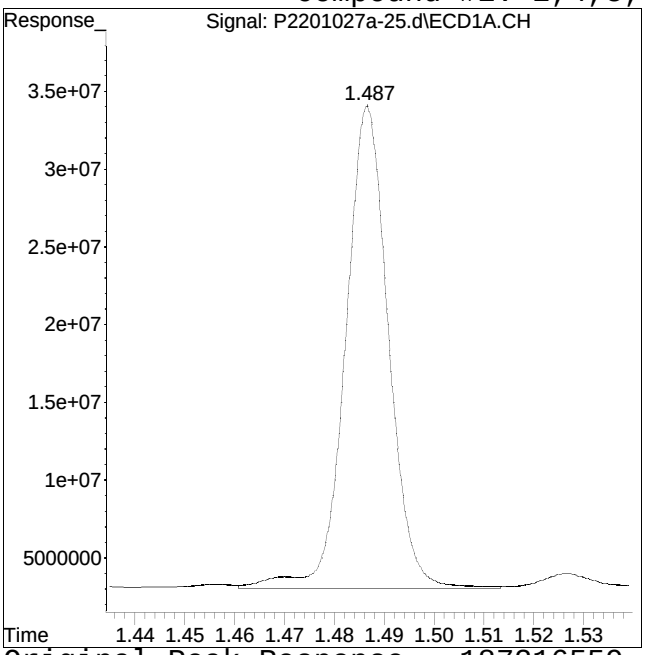


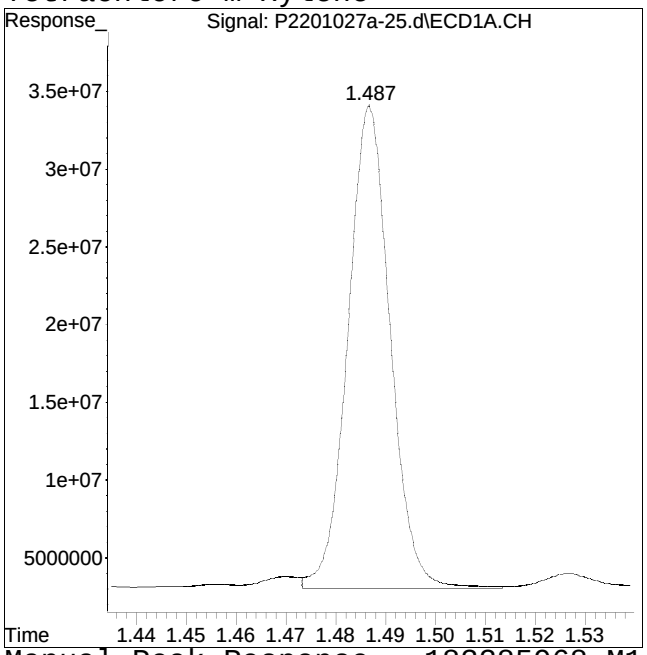
Manual Integration Report

Data Path : I:\Pest2\201027A\
Data File : P2201027a-25.d
Date Inj'd : 10/27/2020 3:08 pm
Sample : WG1426949-2,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/27/2020 3:56 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





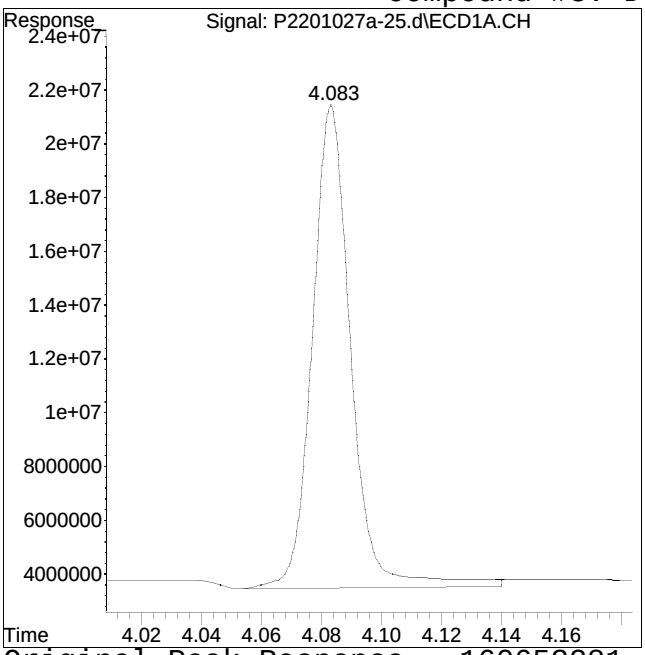
Original Peak Response = 187216559 Manual Peak Response = 183385968 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

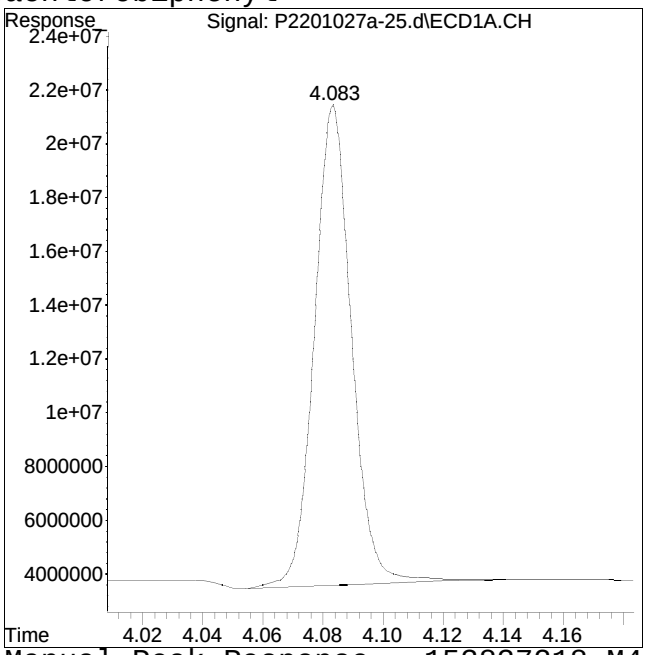
Manual Integration Report

Data Path : I:\Pest2\201027A\
Data File : P2201027a-25.d
Date Inj'd : 10/27/2020 3:08 pm
Sample : WG1426949-2,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/27/2020 3:56 pm

Compound #3: Decachlorobiphenyl





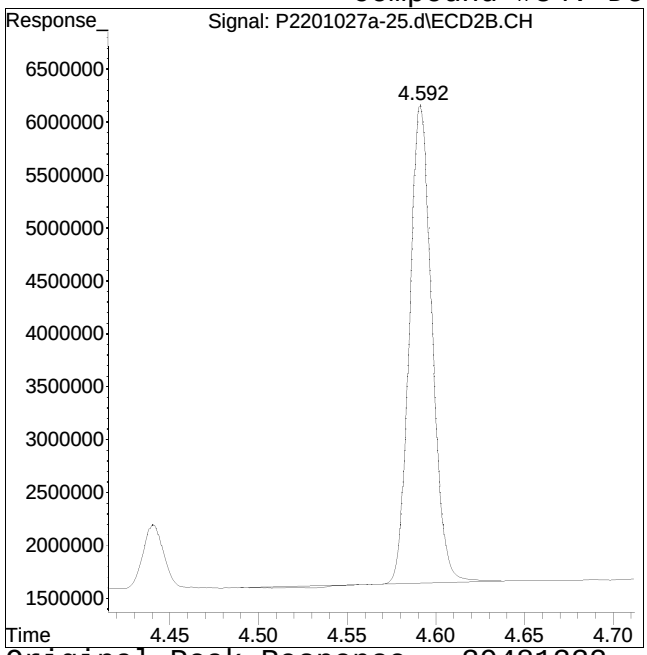
Original Peak Response = 160653281 Manual Peak Response = 153837218 M4
M4 = Poor automated baseline construction.

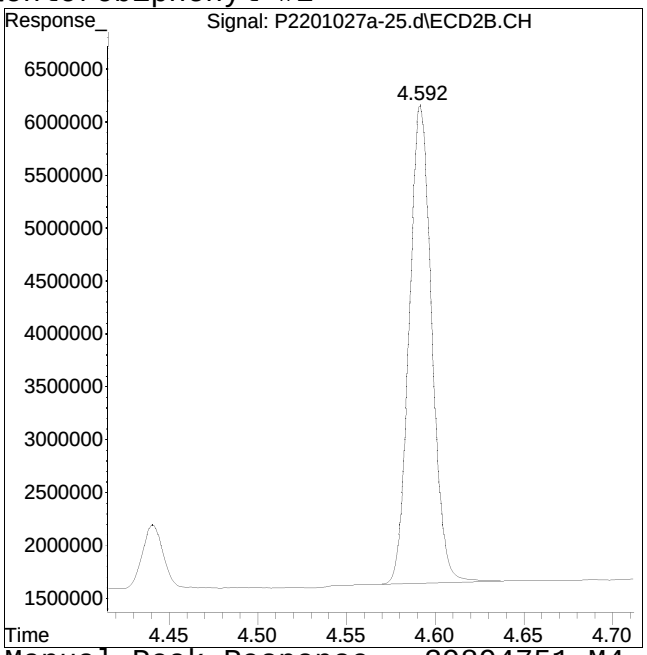
Manual Integration Report

Data Path : I:\Pest2\201027A\
Data File : P2201027a-25.d
Date Inj'd : 10/27/2020 3:08 pm
Sample : WG1426949-2,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/27/2020 3:56 pm

Compound #54: Decachlorobiphenyl #2





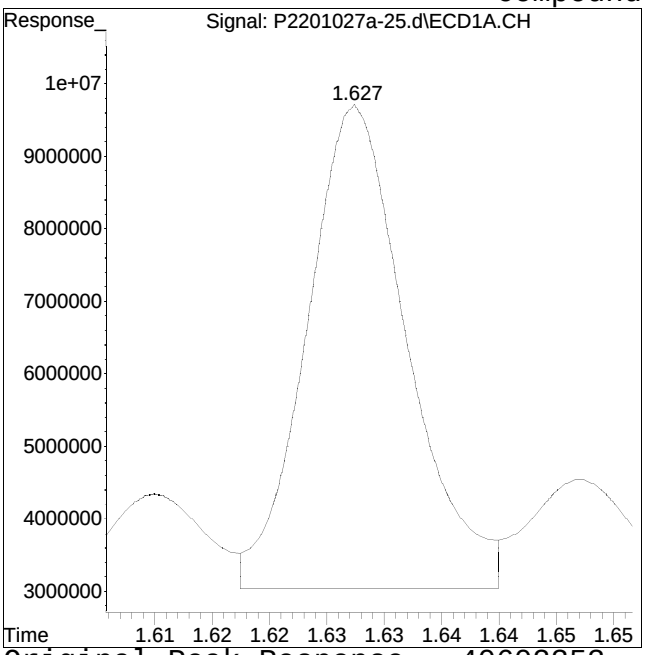
Original Peak Response = 39481332 Manual Peak Response = 39894751 M4
M4 = Poor automated baseline construction.

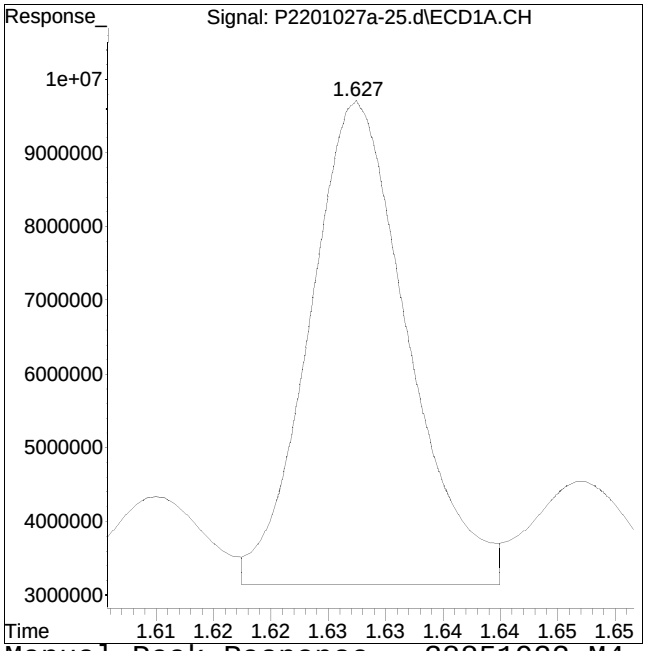
Manual Integration Report

Data Path : I:\Pest2\201027A\
Data File : P2201027a-25.d
Date Inj'd : 10/27/2020 3:08 pm
Sample : WG1426949-2,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/27/2020 3:56 pm

Compound #4: 1016-1





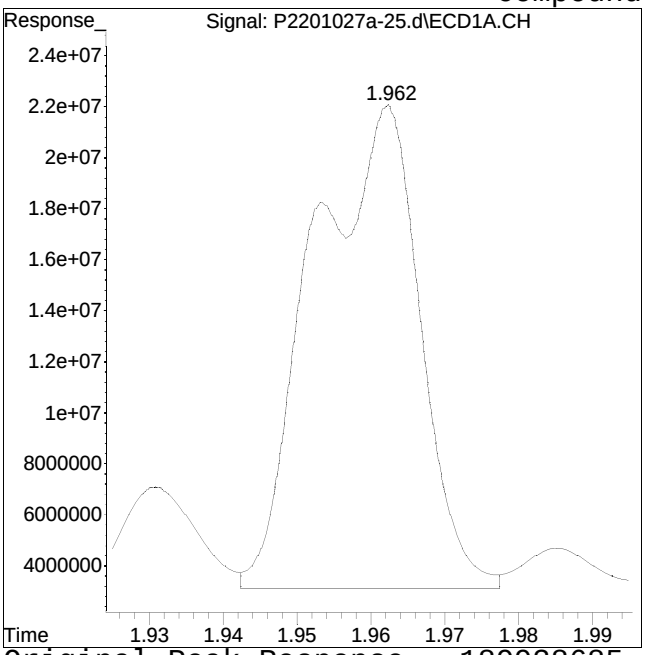
Original Peak Response = 40602353 Manual Peak Response = 38851922 M4
M4 = Poor automated baseline construction.

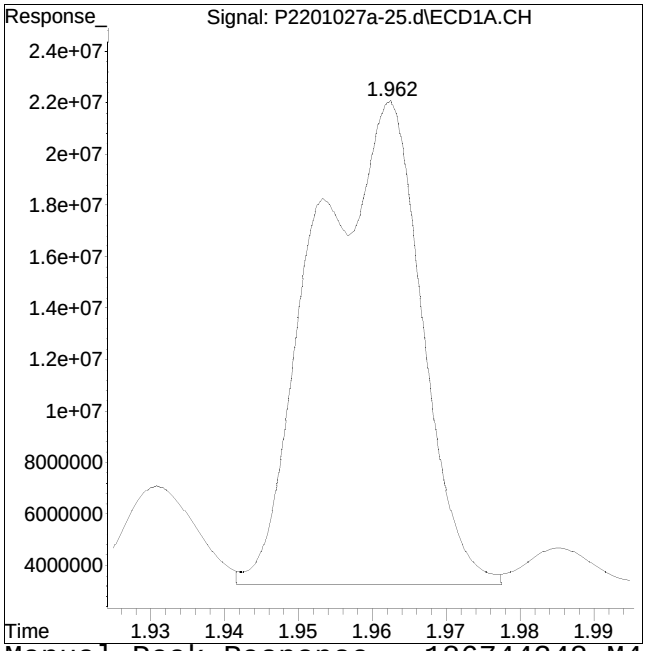
Manual Integration Report

Data Path : I:\Pest2\201027A\
Data File : P2201027a-25.d
Date Inj'd : 10/27/2020 3:08 pm
Sample : WG1426949-2,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/27/2020 3:56 pm

Compound #6: 1016-3





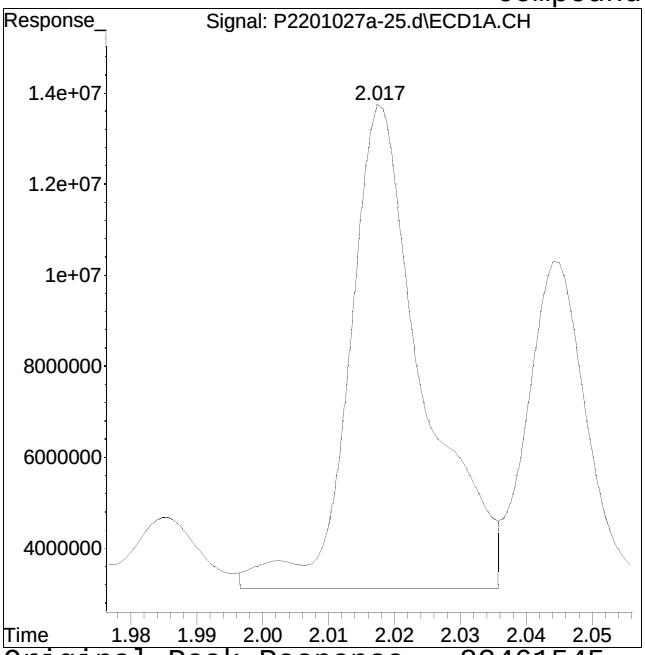
Original Peak Response = 189938685 Manual Peak Response = 186744248 M4
M4 = Poor automated baseline construction.

Manual Integration Report

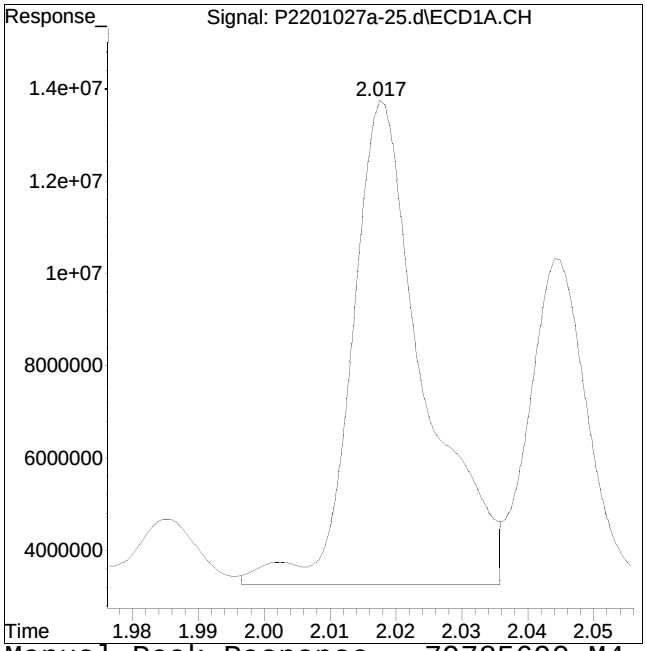
Data Path : I:\Pest2\201027A\
Data File : P2201027a-25.d
Date Inj'd : 10/27/2020 3:08 pm
Sample : WG1426949-2,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/27/2020 3:56 pm

Compound #7: 1016-4



Original Peak Response = 82461545



Manual Peak Response = 79785690 M4

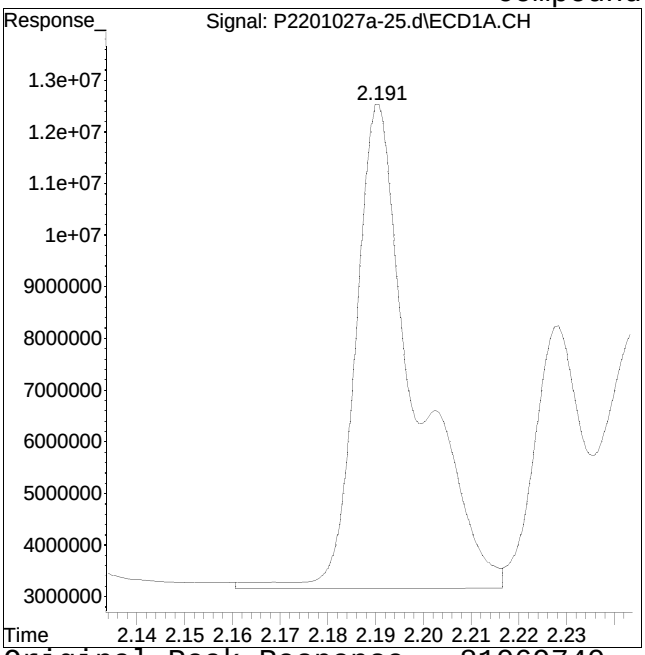
M4 = Poor automated baseline construction.

Manual Integration Report

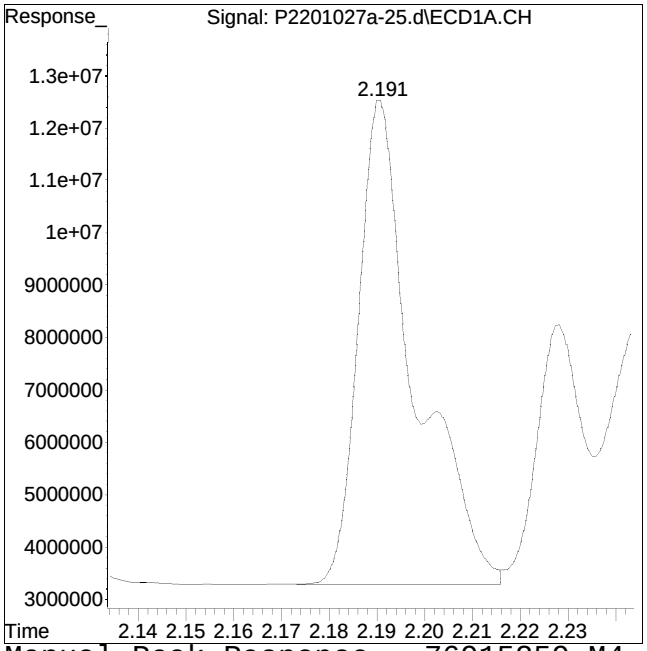
Data Path : I:\Pest2\201027A\
Data File : P2201027a-25.d
Date Inj'd : 10/27/2020 3:08 pm
Sample : WG1426949-2,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/27/2020 3:56 pm

Compound #8: 1016-5



Original Peak Response = 81069740



Manual Peak Response = 76915259 M4

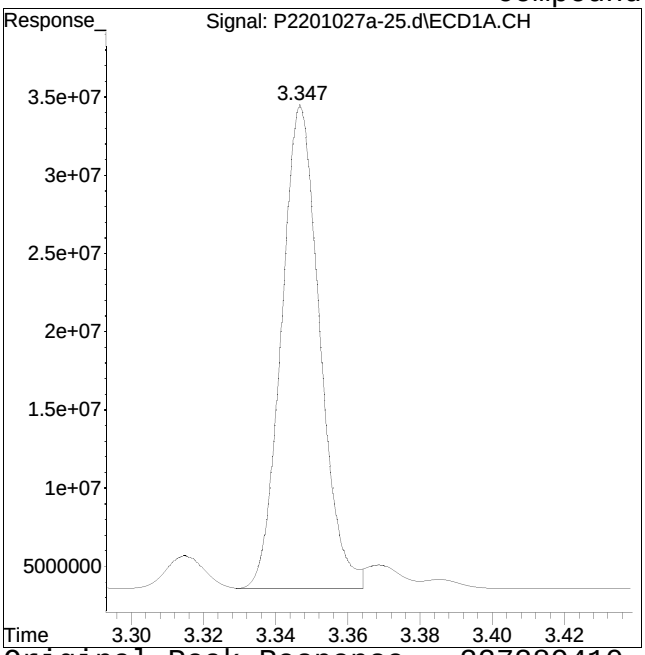
M4 = Poor automated baseline construction.

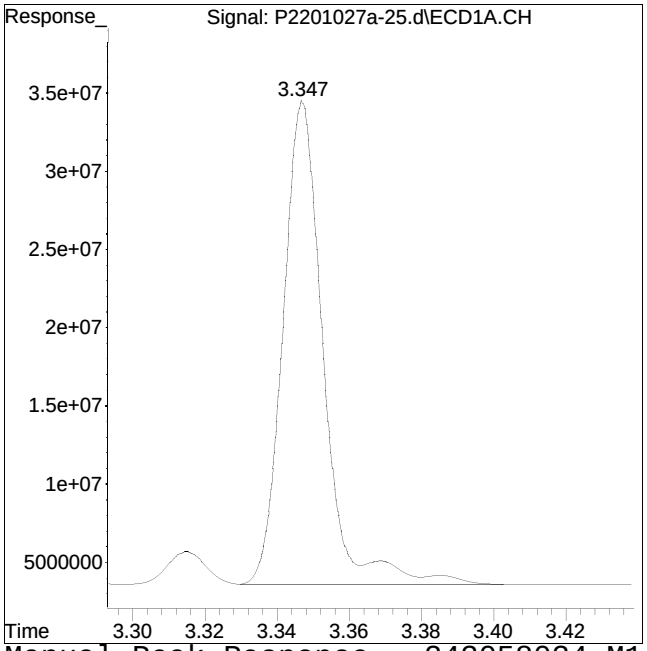
Manual Integration Report

Data Path : I:\Pest2\201027A\
Data File : P2201027a-25.d
Date Inj'd : 10/27/2020 3:08 pm
Sample : WG1426949-2,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/27/2020 3:56 pm

Compound #12: 1260-4





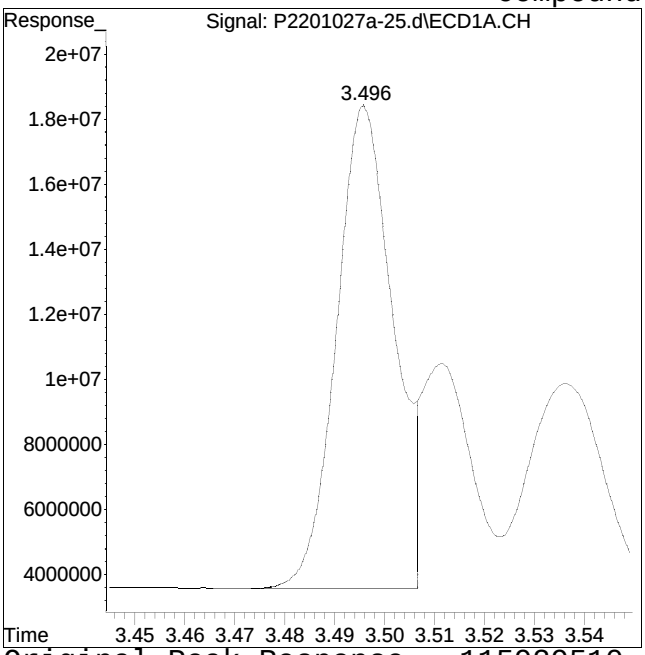
Original Peak Response = 227289410 Manual Peak Response = 243058034 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

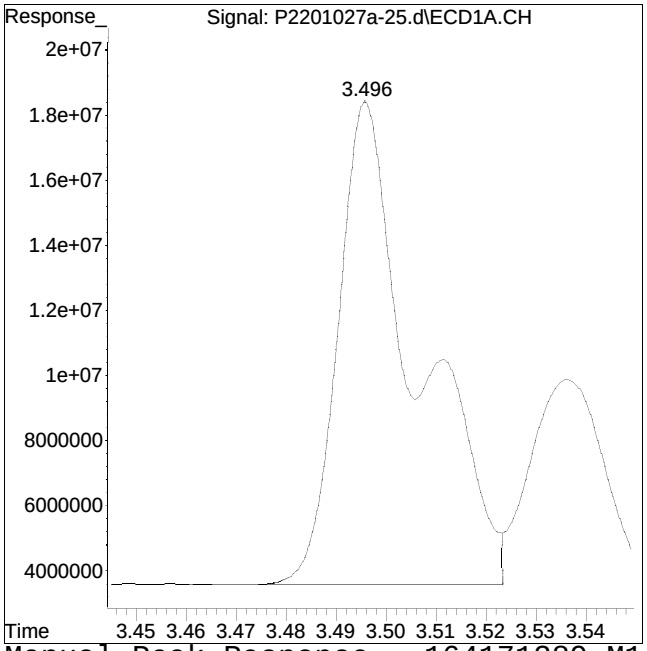
Manual Integration Report

Data Path : I:\Pest2\201027A\
Data File : P2201027a-25.d
Date Inj'd : 10/27/2020 3:08 pm
Sample : WG1426949-2,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/27/2020 3:56 pm

Compound #13: 1260-5





Original Peak Response = 115929510 Manual Peak Response = 164171289 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest2\201027A\
Data File : P2201027a-26.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Oct 2020 3:17 pm
Operator : pest2:cw
Sample : WG1426949-3,42,,
Misc : wg1426966,WG1426949,ical17147
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 27 16:02:08 2020
Quant Method : I:\Pest2\201027A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest2\201027A\P2201027a-03.d
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.196	1.249	190.3E6	52968725	25.000	25.000
Standard Area 1 : #1 = 170881833				Recovery =	111.34%	
Standard Area 1 : #2 = 47399024				Recovery =	111.75%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.487	1.630	169.4E6	45325574	16.422M1	15.764
Spiked Amount 20.000	Range 30 - 150		Recovery =	82.11%	78.82%	
3) s Decachlorobi	4.083	4.590	139.3E6	36574612	16.793M4	16.696M4
Spiked Amount 20.000	Range 30 - 150		Recovery =	83.97%	83.48%	
Target Compounds						
4) l1 1016-1	1.627	1.836	35558790	11627667	196.959M4	209.362
5) l1 1016-2	1.771	2.009	85752011	24704236	209.983	211.415
6) l1 1016-3	1.962	2.213	174.2E6	47269757	214.463M4	207.069
7) l1 1016-4	2.017	2.274	72946917	18742625	221.023M4	204.674
8) l1 1016-5	2.190	2.488	70701540	16032455	200.335M4	219.091
Sum 1016-1			439.2E6	118.4E6	1042.764	1051.610
Average 1016-1					208.553	210.322
9) l2 1260-1	2.740	3.103	99717605	31452068	182.998	209.465
10) l2 1260-2	2.871	3.206	158.9E6	33370647	195.517	191.919
11) l2 1260-3	3.190	3.602	90491709	28460236	177.132	198.782
12) l2 1260-4	3.346	3.732	223.4E6	57730050	189.738M1	196.328
13) l2 1260-5	3.495	3.935	151.4E6	41502546	194.321M1	201.796
Sum 1260-1			723.8E6	192.5E6	939.706	998.289
Average 1260-1					187.941	199.658
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.

Data Path : I:\Pest2\201027A\
Data File : P2201027a-26.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Oct 2020 3:17 pm
Operator : pest2:cw
Sample : WG1426949-3,42,,
Misc : wg1426966,WG1426949,ical17147
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 27 16:02:08 2020
Quant Method : I:\Pest2\201027A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest2\201027A\P2201027a-03.d
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

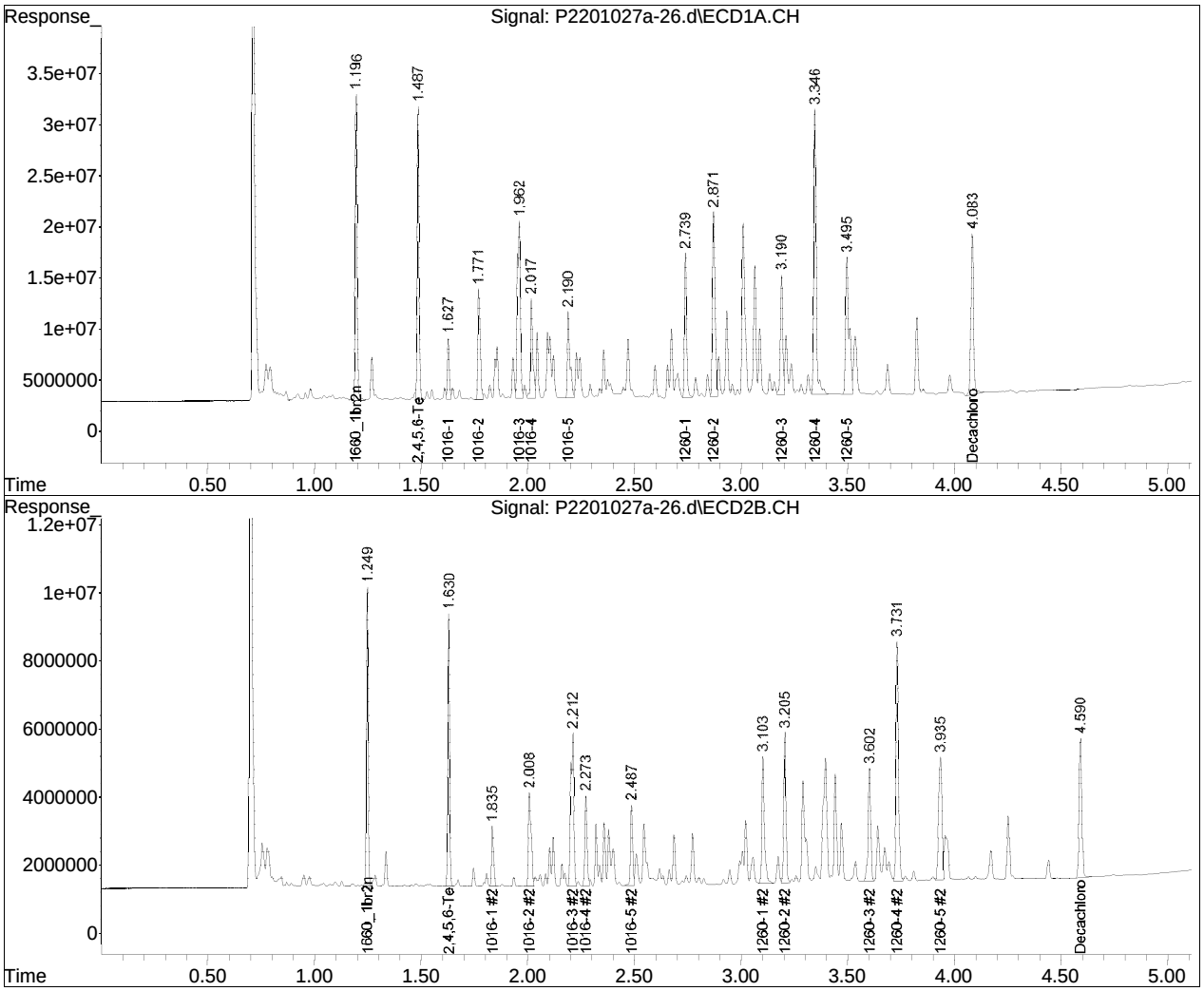
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 16602\201027A\P2201027a-03.d••ed)

Data Path : I:\Pest2\201027A\
Data File : P2201027a-26.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27 Oct 2020 3:17 pm
Operator : pest2:cw
Sample : WG1426949-3,42,,
Misc : wg1426966,WG1426949,ical17147
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 27 16:02:08 2020
Quant Method : I:\Pest2\201027A\P2_pcb_08_28_20_LVI_ugL_ICAL17147.m
Quant Title : pcb
QLast Update : Fri Oct 16 09:45:28 2020
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

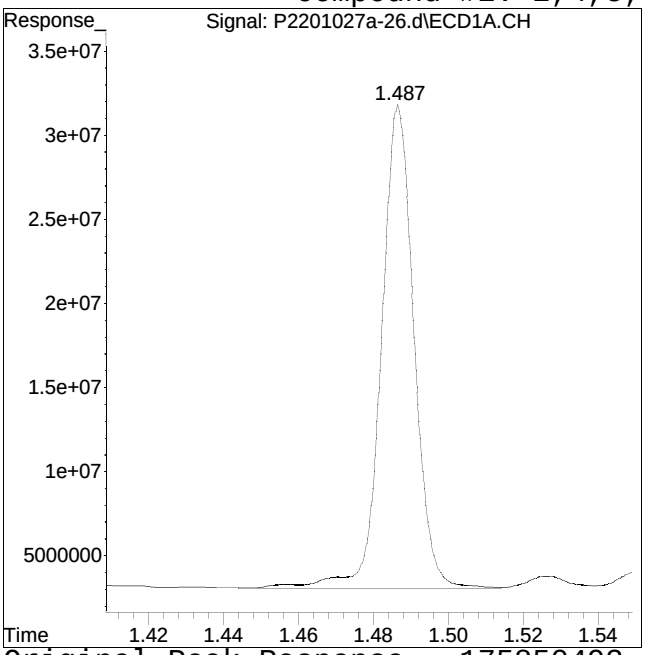


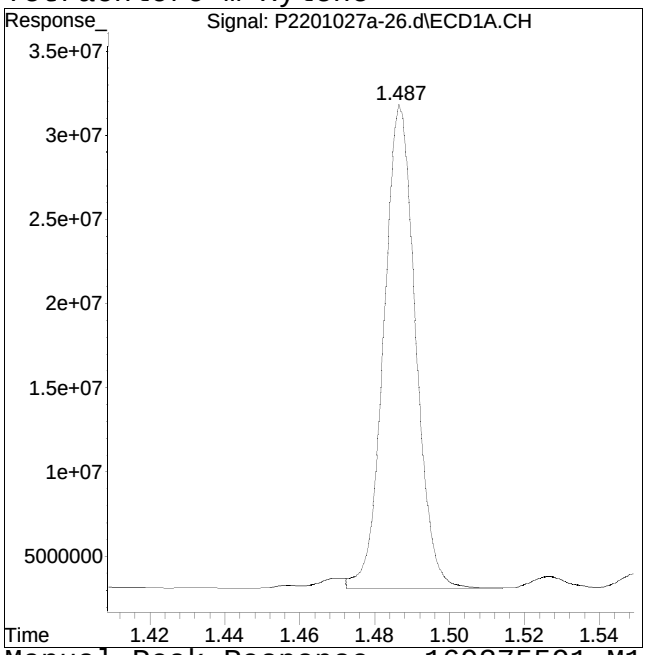
Manual Integration Report

Data Path : I:\Pest2\201027A\
Data File : P2201027a-26.d
Date Inj'd : 10/27/2020 3:17 pm
Sample : WG1426949-3,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/27/2020 3:56 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





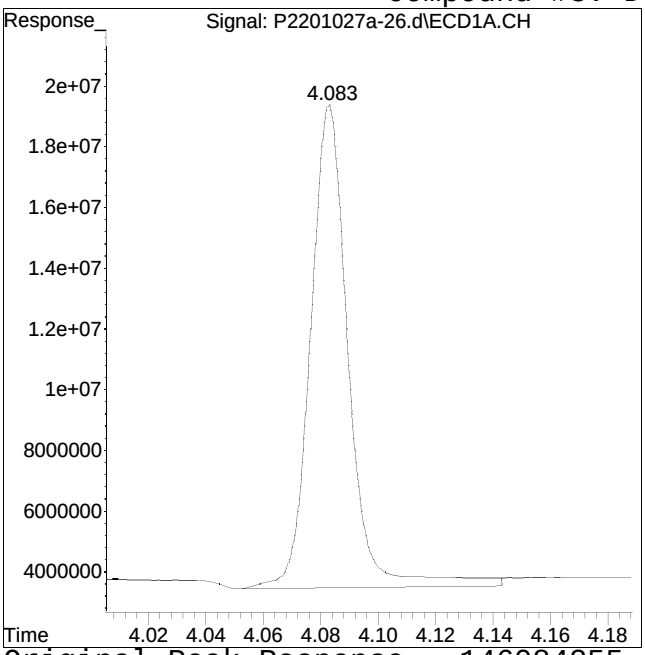
Original Peak Response = 175850493 Manual Peak Response = 169375591 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

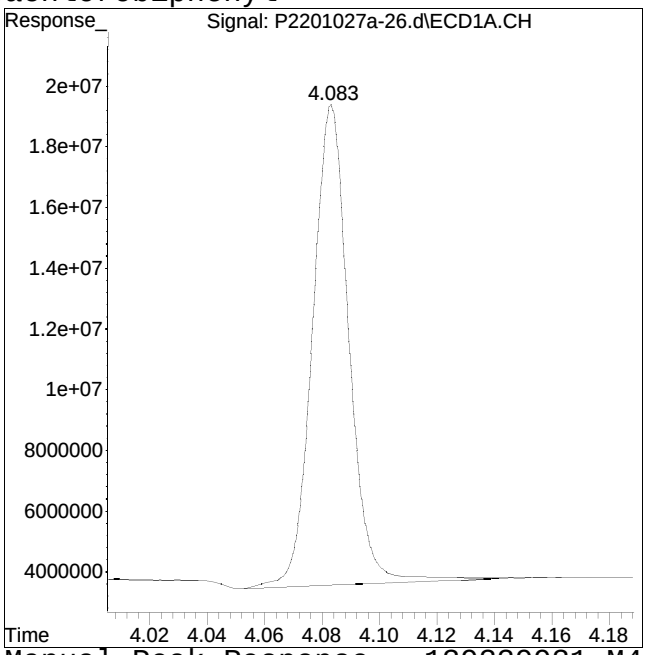
Data Path : I:\Pest2\201027A\
Data File : P2201027a-26.d
Date Inj'd : 10/27/2020 3:17 pm
Sample : WG1426949-3,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/27/2020 3:56 pm

Compound #3: Decachlorobiphenyl



Original Peak Response = 146084255



Manual Peak Response = 139339931 M4

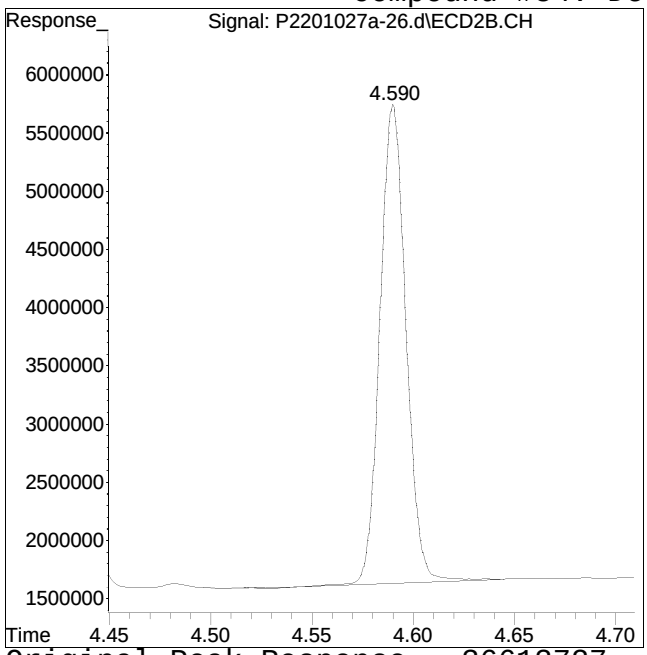
M4 = Poor automated baseline construction.

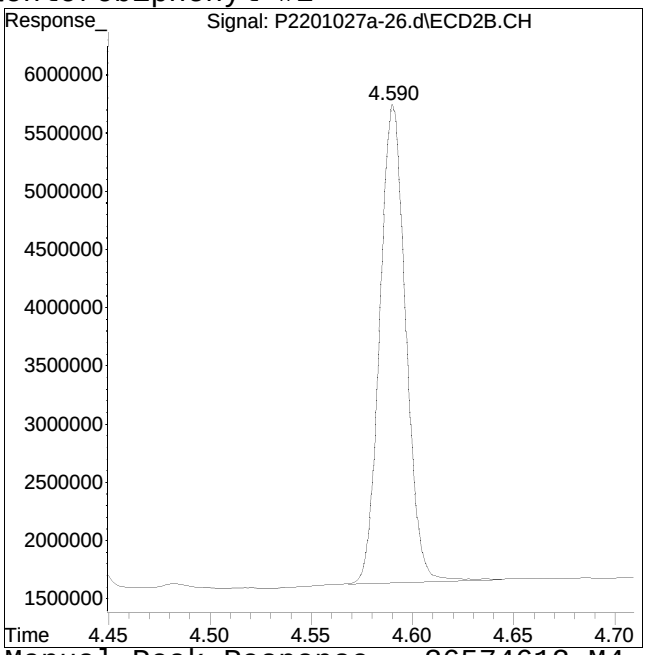
Manual Integration Report

Data Path : I:\Pest2\201027A\
Data File : P2201027a-26.d
Date Inj'd : 10/27/2020 3:17 pm
Sample : WG1426949-3,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/27/2020 3:56 pm

Compound #54: Decachlorobiphenyl #2





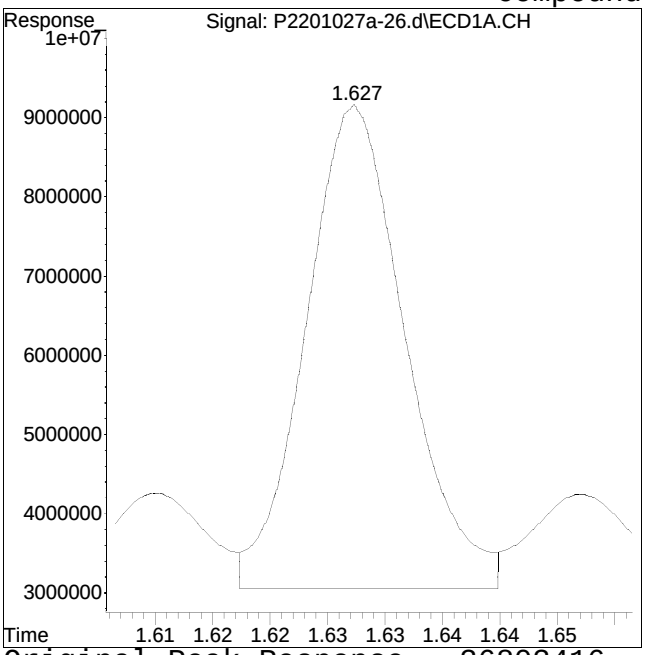
Original Peak Response = 36613727 Manual Peak Response = 36574612 M4
M4 = Poor automated baseline construction.

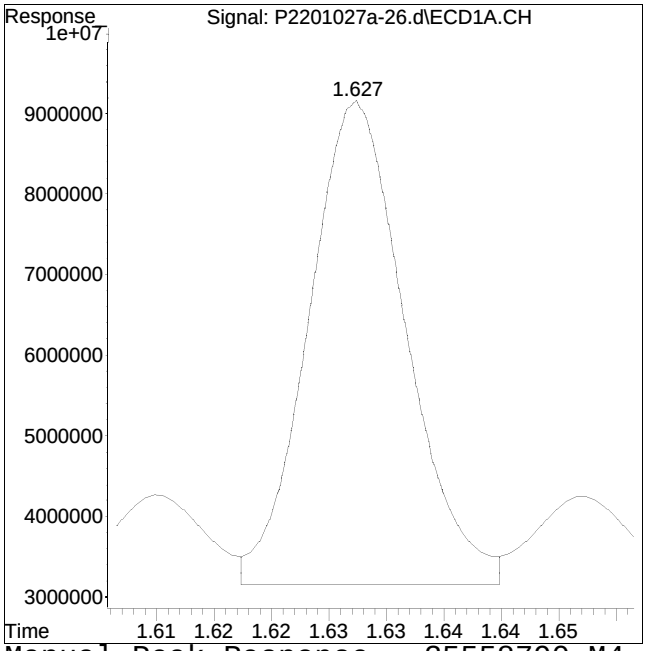
Manual Integration Report

Data Path : I:\Pest2\201027A\
Data File : P2201027a-26.d
Date Inj'd : 10/27/2020 3:17 pm
Sample : WG1426949-3,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/27/2020 3:56 pm

Compound #4: 1016-1





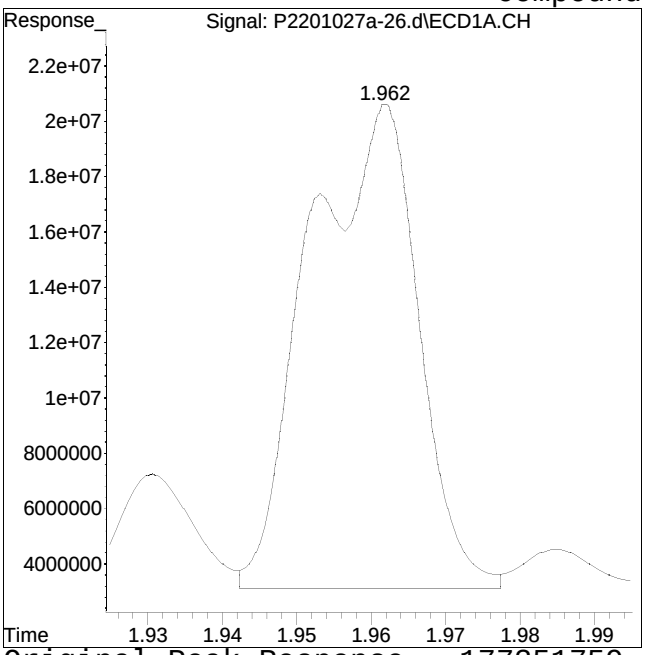
Original Peak Response = 36803416 Manual Peak Response = 35558790 M4
M4 = Poor automated baseline construction.

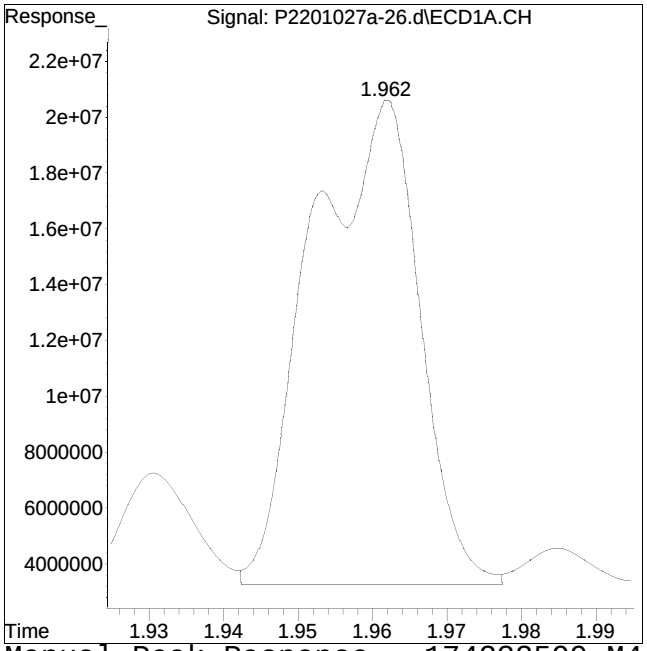
Manual Integration Report

Data Path : I:\Pest2\201027A\
Data File : P2201027a-26.d
Date Inj'd : 10/27/2020 3:17 pm
Sample : WG1426949-3,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/27/2020 3:56 pm

Compound #6: 1016-3





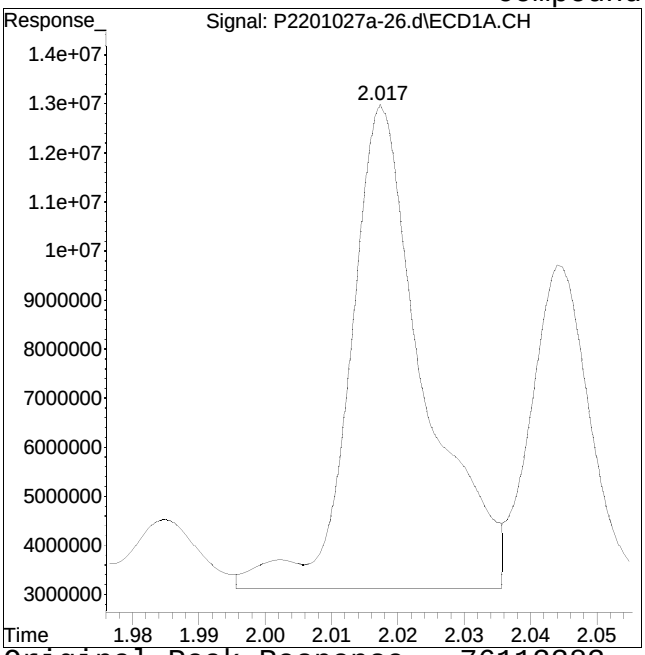
Original Peak Response = 177351759 Manual Peak Response = 174232599 M4
M4 = Poor automated baseline construction.

Manual Integration Report

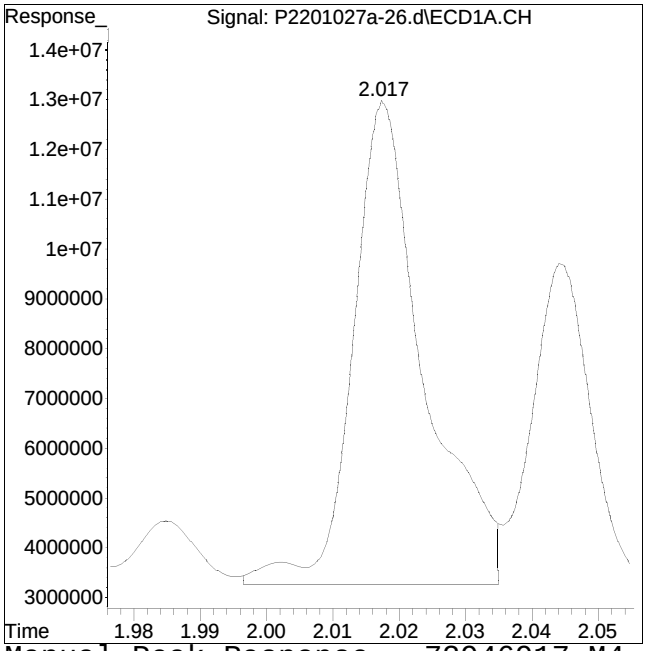
Data Path : I:\Pest2\201027A\
Data File : P2201027a-26.d
Date Inj'd : 10/27/2020 3:17 pm
Sample : WG1426949-3,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/27/2020 3:56 pm

Compound #7: 1016-4



Original Peak Response = 76113383



Manual Peak Response = 72946917 M4

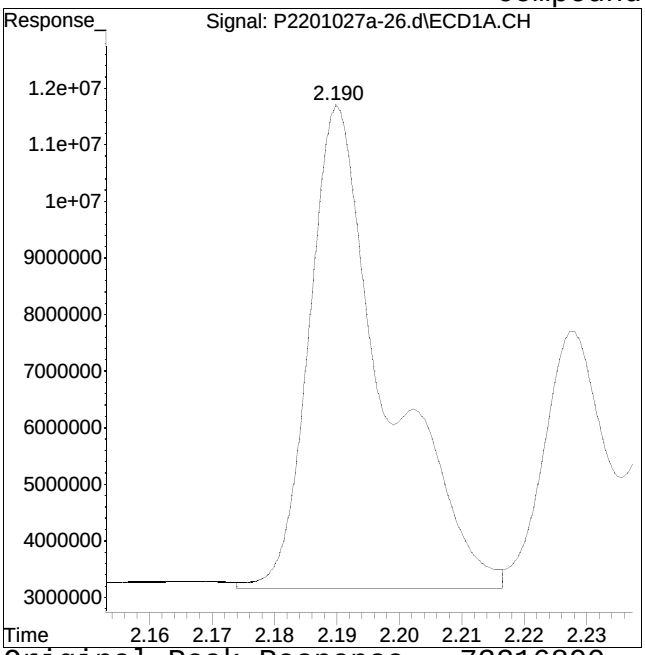
M4 = Poor automated baseline construction.

Manual Integration Report

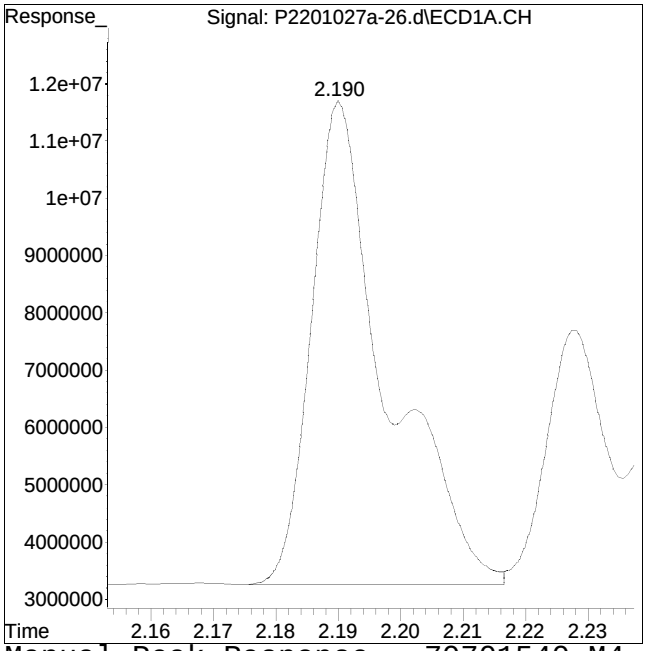
Data Path : I:\Pest2\201027A\
Data File : P2201027a-26.d
Date Inj'd : 10/27/2020 3:17 pm
Sample : WG1426949-3,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/27/2020 3:56 pm

Compound #8: 1016-5



Original Peak Response = 73216890



Manual Peak Response = 70701540 M4

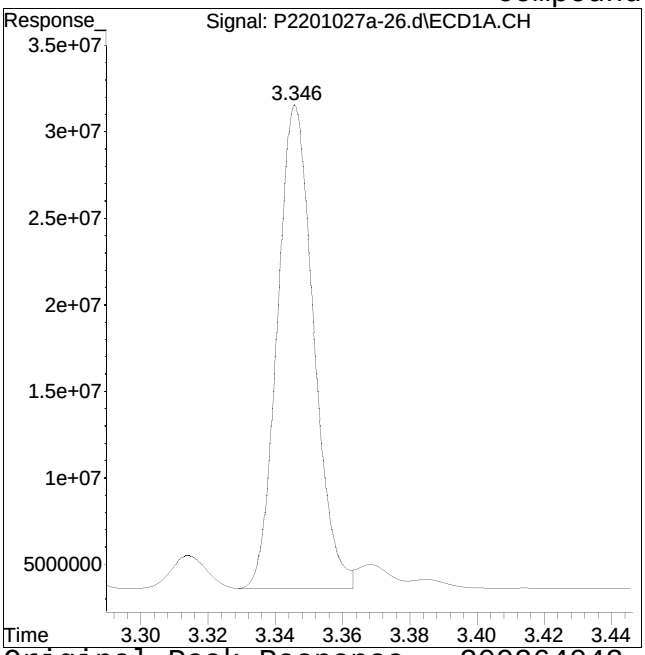
M4 = Poor automated baseline construction.

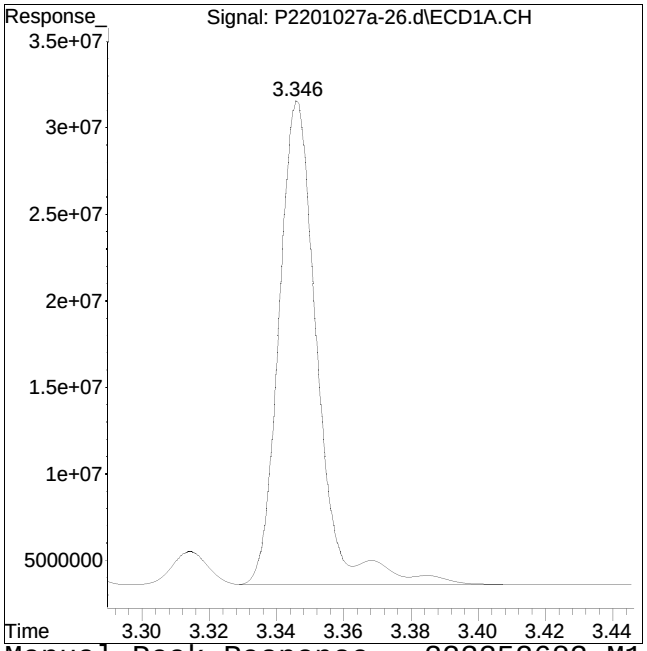
Manual Integration Report

Data Path : I:\Pest2\201027A\
Data File : P2201027a-26.d
Date Inj'd : 10/27/2020 3:17 pm
Sample : WG1426949-3,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/27/2020 3:56 pm

Compound #12: 1260-4





Original Peak Response = 209264042 Manual Peak Response = 223352683 M1

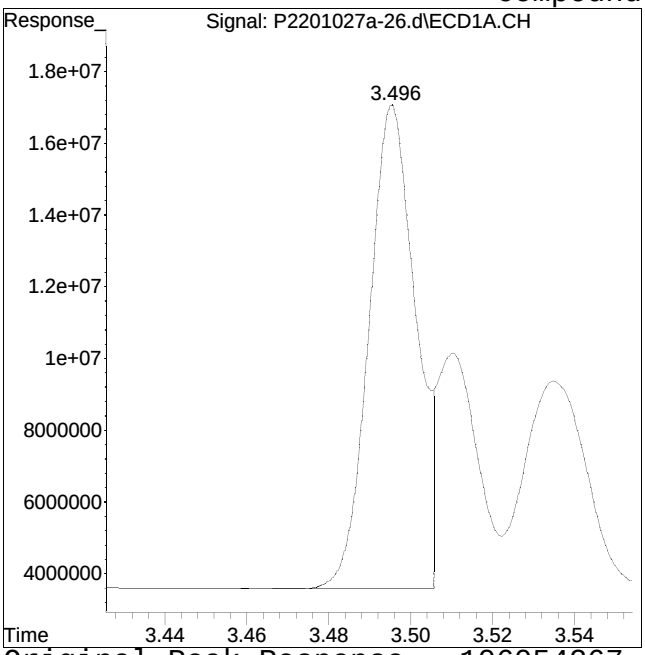
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

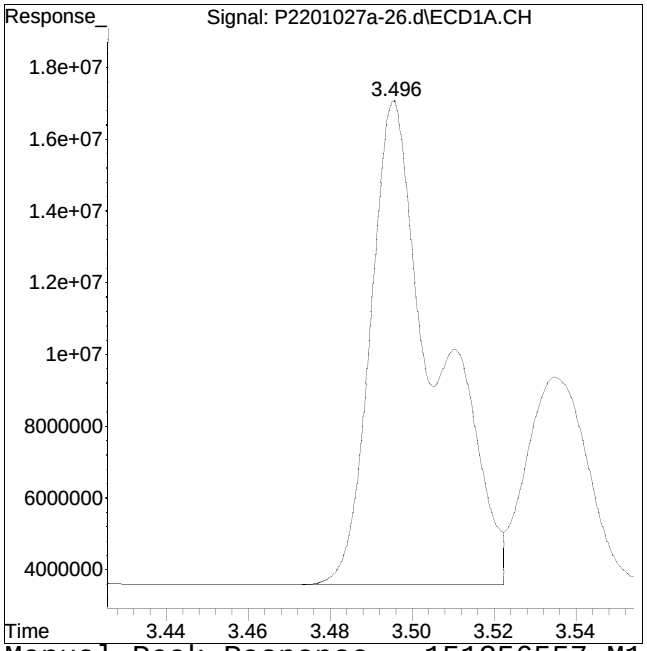
Manual Integration Report

Data Path : I:\Pest2\201027A\
Data File : P2201027a-26.d
Date Inj'd : 10/27/2020 3:17 pm
Sample : WG1426949-3,42,,

QMethod : P2_pcb_08_28_20_LVI_ugL_
Operator : pest2:cw
Instrument : PEST 2
Quant Date : 10/27/2020 3:56 pm

Compound #13: 1260-5





Original Peak Response = 106054267 Manual Peak Response = 151356557 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Calculation of PCB Aroclors & Pesticides

Aqueous Concentration Formula:
Amt * DF*(Vt/Vp)*(1000/Vo)*(Ve/1000)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Vo = Volume of Sample (mL)
Ve = Extraction Lab Final Volume (mL)

Soil Concentration Formula:
Amt * DF * (Vt/Vp)*(1000/Wt)*(Ve/1000)* (100/TS)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Wt = Weight of Sample (g)
Ve = Extraction Lab Final Volume (mL)
TS = Total Solids

Dep.: PCB
Inst: Pest_2
Date: **08/28/20**
Run: **icala**

Method
GC: PCB_2.M

Seq: _____
LVI

Vial	Data File	Sample	CCAL	notes	initials
1	P2200828icala-01	prime			
2	P2200828icala-02	blank			
2	P2200828icala-03	blank			
3	P2200828icala-04	il11660,42e,,9810			
4	P2200828icala-05	il21660,42e,,9810			
5	P2200828icala-06	il31660,42e,,9810			
6	P2200828icala-07	il41660,42e,,9810			
7	P2200828icala-08	il51660,42e,,9810			
8	P2200828icala-09	il61660,42e,,9810			
9	P2200828icala-10	il44268,42e,,9831			
10	P2200828icala-11	il43262,42e,,9812			
11	P2200828icala-12	il41248,42e,,9814			
12	P2200828icala-13	il42154,42e,,9811			
13	P2200828icala-14	cicv1660,42e,,9815			
14	P2200828icala-15	cicv4268,42e,,9834			
15	P2200828icala-16	cicv3262,42e,,9817			
16	P2200828icala-17	cicv1248,42e,,9819			
17	P2200828icala-18	cicv2154,42e,,9816			
18	P2200828icala-17	cicv2154,42e,, rr 9816			
1	P2200828icala-20	blank			
2	P2200828icala-21	cicv2154,42e,, rr 9816			
1	P2200828icala-22	blank			
2	P2200828icala-23	cicv2154,42e,, rr 9816			
1	P2200828icala-24	blank			
2	P2200828icala-25	cicv2154,42e,, rr 9816			

Dep.: PCB
Inst: Pest_2
Date: **10/27/20**
Run: **a**

Method
GC: PCB_2.M

Seq: wg1426966
lvi

Vial	Data File	Sample	CCAL	notes	initials
1	P2201027a-01	Instrument Blank			
100	P2201027a-02	prime			
2	P2201027a-03	+1660 lvi 10062	15% 8:03 am 966-1 SH		
3	P2201027a-04	+2154 lvi 10124			
4	P2201027a-05	+1248 lvi 10125			
5	P2201027a-06	+4268 lvi 10127			
6	P2201027a-07	WG1426349-1,42,,6348 QC			
7	P2201027a-08	WG1426349-2,42,,6348 QC			
8	P2201027a-09	WG1426349-3,42,,6348 QC			
9	P2201027a-10	L2046161-01,42,,			
10	P2201027a-11	L2046112-06,42,,			
11	P2201027a-12	L2046112-07,42,,			
12	P2201027a-13	L2046112-08,42,,			
13	P2201027a-14	L2046300-01,42,,p double IS rris			
14	P2201027a-15	WG1426348-4,42,,ms			
15	P2201027a-16	WG1426348-5,42,,msd			
16	P2201027a-17	L2046300-02,42,,			
17	P2201027a-18	L2046300-12,42,,			
18	P2201027a-19	L2046348-07,42,,			
19	P2201027a-20	L2046348-08,42,,			
20	P2201027a-21	L2046348-09,42,,			
21	P2201027a-22	L2046300-01,42,,p rris	confirms revial	S to F21 SH	
22	P2201027a-23	L2046300-01,42,,p rv			
23	P2201027a-24	WG1426949-1,42,,			
24	P2201027a-25	WG1426949-2,42,,			
25	P2201027a-26	WG1426949-3,42,,			
26	P2201027a-27	+1660 lvi 10062			
27	P2201027a-28	+2154 lvi 10124			
28	P2201027a-29	+1248 lvi 10125			
29	P2201027a-30	+4268 lvi 10127			
30	P2201027a-31	L2046546-01,42,,			
31	P2201027a-32	L2046546-02,42,,		V to F31 SH	

Dep.: PCB
Inst: Pest_2
Date: **10/29/20**
Run: **a**

Method
GC: PCB_2.M

Seq: wg1428007
lvi

Vial	Data File	Sample	CCAL	notes	initials
1	P2201029a-01	Instrument Blank			
100	P2201029a-02	prime			
2	P2201029a-03	+1660 lvi 10062	15% 7:57 am 007-1 SH		
3	P2201029a-04	+2154 lvi 10124			
4	P2201029a-05	+1248 lvi 10125			
5	P2201029a-06	+4268 lvi 10127			
6	P2201029a-07	L2046790-01,42,,			
7	P2201029a-08	L2046790-02,42,,			
8	P2201029a-09	L2046790-03,42,,			
9	P2201029a-10	L2046790-04,42,,			
10	P2201029a-11	L2046625-01,42,,			
11	P2201029a-12	L2046625-02,42,,			
12	P2201029a-13	L2046625-03,42,,			
13	P2201029a-14	L2046524-02,42,,			
14	P2201029a-15	L2046524-01,42,,			
15	P2201029a-16	WG1427729-1,42,,			
16	P2201029a-17	WG1427729-2,42,,			
17	P2201029a-18	WG1427729-3,42,,			
18	P2201029a-19	L2046390-02,42,,			
19	P2201029a-20	L2032787-98,42,,p			
20	P2201029a-21	WG1427729-4,42,,ms			
21	P2201029a-22	WG1427729-5,42,,dup			
22	P2201029a-23	WG1427550-1,42,,			
23	P2201029a-24	WG1427550-2,42,,			
24	P2201029a-25	WG1427550-3,42,,			
25	P2201029a-26	L2046825-01,42,,			
26	P2201029a-27	+1660 lvi 10062			
27	P2201029a-28	+2154 lvi 10124			
28	P2201029a-29	+1248 lvi 10125			
29	P2201029a-30	+4268 lvi 10127			
30	P2201029a-31	L2046825-02,42,,			
31	P2201029a-32	L2046825-03,42,,			
32	P2201029a-33	L2046825-04,42,,			
33	P2201029a-34	L2046825-05,42,,p			
34	P2201029a-35	WG1427550-4,42,,ms			
35	P2201029a-36	WG1427550-5,42,,msd			
36	P2201029a-37	L2046825-06,42,,			
37	P2201029a-38	L2047162-01,42,,			
38	P2201029a-39	L2047162-02,42,,			
39	P2201029a-40	L2047162-03,42,,		V to f39 SH	

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jan 06 2021, 12:49 pm

Work Group: WG1426949 for Department: 2 Organic Preparation

Created: 27-OCT-20 Due: Operator: WRF

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2046546-01	RIGHT FIELD DITCH 10-26-20	S	NYTCL-8082-LVI	WATER	DONE	U	1102	1028	1B	Amber-A.120
L2046546-02	RFPL-GW- 10-26-20	S	NYTCL-8082-LVI	WATER	DONE	U	1102	1028	1B	Amber-A.120
L2046625-01	GW-1	S	NYTCL-8082-LVI	WATER	DONE	U	1102	1030	1C	Amber-A.120
L2046625-02	GW-2	S	NYTCL-8082-LVI	WATER	DONE	U	1102	1030	1C	Amber-A.120
L2046625-03	GW-3	S	NYTCL-8082-LVI	WATER	DONE	U	1102	1030	1C	Amber-A.120
L2046754-01	MW-4D	S	NYTCL-8082-LVI	WATER	DONE	U	1103	1028	1A	Amber-A.120
L2046754-02	MW-2D	S	NYTCL-8082-LVI	WATER	DONE	U	1103	1028	1A	Amber-A.120
L2046754-03	FIELD BLANK	S	NYTCL-8082-LVI	WATER	DONE	U	1103	1028	1A	Amber-A.120
L2046790-01	MW-1	S	NYTCL-8082-LVI	WATER	DONE	U	1103	1030	1C	Amber-A.120
L2046790-02	MW-2	S	NYTCL-8082-LVI	WATER	DONE	U	1103	1030	1C	Amber-A.120
L2046790-03	MW-3	S	NYTCL-8082-LVI	WATER	DONE	U	1103	1030	1C	Amber-A.120
L2046790-04	TWP-1	S	NYTCL-8082-LVI	WATER	DONE	U	1103	1030	1C	Amber-A.120
WG1426949-1	Laboratory Method Bl	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1426949-2	Laboratory Control S	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1426949-3	LCS Duplicate	S	NYTCL-8082-LVI	WATER	DONE	U				

Comments:

WG1426949-3 WG1426949-2

ORGANIC ELN REPORT

Workgroup: WG1426949

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** DZ849
Surrogate Type: Pesticide/PCB **Lot #:** PP10079: 3/5/21
Spike Type: PCB **Lot #:** PP10080: 3/23/21
Spike Verify by: BMF / TBC
Lims Spikelot: PCB-LVI

Additional Reagents/Stds

Na2SO4	0000244889

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Hexane
Lot #: DZ590

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1: EPA 3665A
Cleanup Method 2:
Solvent Type: Hexane **Lot #:** DZ590

Additional Reagents/Stds

H2SO4	2020081109

Cleanup 2

Cleanup Method 1: EPA 3660B
Cleanup Method 2:
Solvent Type: Hexane **Lot #:** DZ590

Additional Reagents/Stds

Copper	027040-BL

Cleanup 3

Cleanup Method 1:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Cleanup 4

Cleanup Method 1:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2046546-01 WATER	10/27/20 08:36	Brianna Fleckenstein	140	5-9	.1		10/27/20 11:43	Eric Asamoah	5	C&H#1
L2046546-02 WATER	10/27/20 08:36	Brianna Fleckenstein	140	5-9	.1		10/27/20 11:43	Eric Asamoah	5	C&H#1
REDONE DUE TO FAULTY SEP FUNNEL										
L2046625-01 WATER	10/28/20 08:18	Tian-Long Chheou	140	5-9	.1		10/28/20 13:18	Sophia Osei	5	SEVAP C/H,#1
L2046625-02 WATER	10/28/20 08:18	Tian-Long Chheou	140	5-9	.1		10/28/20 13:18	Sophia Osei	5	SEVAP C/H,#1

Reported: 06-JAN-21 12:49 PM

ORGANIC ELN REPORT

Workgroup: WG1426949

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2046625-03 WATER	10/28/20 08:18	Tian-Long Chheou	140	5-9	.1		10/28/20 13:18	Sophia Osei	5	SEVAP C/H,#1
L2046754-01 WATER	10/28/20 03:57	Francis Mbro-Menyah	140	5-9	.1		10/28/20 07:39	Sam Boateng	5	N-EVAPS C/H,N-EVAP#
L2046754-02 WATER	10/28/20 03:57	Francis Mbro-Menyah	140	5-9	.1		10/28/20 07:39	Sam Boateng	5	N-EVAPS C/H,N-EVAP#
L2046754-03 WATER	10/28/20 03:57	Francis Mbro-Menyah	140	5-9	.1		10/28/20 07:39	Sam Boateng	5	N-EVAPS C/H,N-EVAP#
L2046790-01 WATER	10/28/20 07:27	Tian-Long Chheou	140	5-9	.1		10/28/20 10:54	Sophia Osei	5	SEVAP C/H,#1
L2046790-02 WATER	10/28/20 07:27	Tian-Long Chheou	140	5-9	.1		10/28/20 10:54	Sophia Osei	5	SEVAP C/H,#1
L2046790-03 WATER	10/28/20 07:27	Tian-Long Chheou	140	5-9	.1		10/28/20 10:54	Sophia Osei	5	SEVAP C/H,#1
L2046790-04 WATER	10/28/20 07:27	Tian-Long Chheou	140	5-9	.1		10/28/20 10:54	Sophia Osei	5	SEVAP C/H,#1

ORGANIC ELN REPORT

Workgroup: WG1426949

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1426949-1 BLANK	10/27/20 08:36	Brianna Fleckenstein	140	5-9	.1		10/27/20 11:43	Eric Asamoah	5	C&H#1
WG1426949-2 LCS	10/27/20 08:36	Brianna Fleckenstein	140	5-9	.1	.1	10/27/20 11:43	Eric Asamoah	5	C&H#1
WG1426949-3 LCSD	10/27/20 08:36	Brianna Fleckenstein	140	5-9	.1	.1	10/27/20 11:43	Eric Asamoah	5	C&H#1

ORGANIC ELN REPORT

Workgroup: WG1426949

Sample/ Type	Cleanup 1				Cleanup 2	
	Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup Date	Analyst
L2046546-01 WATER	10/27/20 11:57	Priscilla Anim	5	1	10/27/20 14:04	Priscilla Anim
L2046546-02 WATER	10/27/20 11:57	Priscilla Anim	5	1	10/27/20 14:04	Priscilla Anim
L2046625-01 WATER	10/28/20 15:10	Priscilla Anim	5	1	10/28/20 22:27	Daniel Erhagbai
L2046625-02 WATER	10/28/20 15:10	Priscilla Anim	5	1	10/28/20 22:27	Daniel Erhagbai
L2046625-03 WATER	10/28/20 15:10	Priscilla Anim	5	1	10/28/20 22:27	Daniel Erhagbai
L2046754-01 WATER	10/28/20 07:40	Kamerry Keo	5	1	10/28/20 08:19	Maranda Cardiel
L2046754-02 WATER	10/28/20 07:40	Kamerry Keo	5	1	10/28/20 08:19	Maranda Cardiel
L2046754-03 WATER	10/28/20 07:40	Kamerry Keo	5	1	10/28/20 08:19	Maranda Cardiel
L2046790-01 WATER	10/28/20 11:40	Maranda Cardiel	5	1	10/28/20 22:27	Daniel Erhagbai
L2046790-02 WATER	10/28/20 11:40	Maranda Cardiel	5	1	10/28/20 22:27	Daniel Erhagbai
L2046790-03 WATER	10/28/20 11:40	Maranda Cardiel	5	1	10/28/20 22:27	Daniel Erhagbai

Reported: 06-JAN-21 12:49 PM

ORGANIC ELN REPORT

Workgroup: WG1426949

Sample/ Type	Cleanup 1 Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup 2 Cleanup Date	Analyst
L2046790-04 WATER	10/28/20 11:40	Maranda Cardiel	5	1	10/28/20 22:27	Daniel Erhagbai
WG1426949-1 BLANK	10/27/20 11:57	Priscilla Anim	5	1	10/27/20 14:04	Priscilla Anim
WG1426949-2 LCS	10/27/20 11:57	Priscilla Anim	5	1	10/27/20 14:04	Priscilla Anim
WG1426949-3 LCSD	10/27/20 11:57	Priscilla Anim	5	1	10/27/20 14:04	Priscilla Anim

Reported: 06-JAN-21 12:49 PM

GC Extractable Analysis
Pesticides

Pesticide QC Summary

Surrogate Recovery Summary
Form 2
Pesticides

Client: Impact Environmental
Project Name: 13-12 BEACH CHANNEL DRIVE

Lab Number: L2046790
Project Number: 15209
Matrix: Water

GC Column 1: CLPPesticides
GC Column 2: CLPPesticidesII

CLIENT ID (LAB SAMPLE NO.)	TCX 1 %REC	TCX 2 %REC	DCB 1 %REC	DCB 2 %REC	OTHER (1)	OTHER (2)	TOT OUT
MW-1 (L2046790-01)	89	72	37	54			0
MW-2 (L2046790-02)	82	69	52	69			0
MW-3 (L2046790-03)	85	73	35	35			0
TWP-1 (L2046790-04)	87	71	36	77			0
WG1426947-1BLANK	80	70	78	71			0
WG1426947-2LCS	87	79	76	72			0
WG1426947-3LCSD	81	73	75	69			0

QC LIMITS
(30-150) TCX = 2,4,5,6-TETRACHLORO-M-XYLENE
(30-150) DCBP = DECACHLOROBIPHENYL

*** Values outside of QC limits**

Laboratory Control Sample Summary
Form 3
Pesticides

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Matrix	: WATER		
LCS Sample ID	: WG1426947-2 **Analysis Date** : 10/27/20 14:50	**File ID**	: 15201027b-24
LCSD Sample ID	: WG1426947-3 **Analysis Date** : 10/27/20 15:03	**File ID**	: 15201027b-25

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Delta-BHC	0.357	0.287	80	0.357	0.285	80	1	30-150	20
Lindane	0.357	0.290	81	0.357	0.286	80	1	30-150	20
Alpha-BHC	0.357	0.336	94	0.357	0.327	92	3	30-150	20
Beta-BHC	0.357	0.292	82	0.357	0.281	79	4	30-150	20
Heptachlor	0.357	0.300	84	0.357	0.288	81	4	30-150	20
Aldrin	0.357	0.302	85	0.357	0.303	85	0	30-150	20
Endrin	0.357	0.314	88	0.357	0.312	87	1	30-150	20
Dieldrin	0.357	0.329	92	0.357	0.324	91	2	30-150	20
4,4'-DDE	0.357	0.301	84	0.357	0.302	85	0	30-150	20
4,4'-DDD	0.357	0.331	93	0.357	0.330	92	0	30-150	20
4,4'-DDT	0.357	0.291	82	0.357	0.288	81	1	30-150	20
Endosulfan I	0.357	0.299	84	0.357	0.297	83	1	30-150	20
Endosulfan II	0.357	0.297	83	0.357	0.298	83	0	30-150	20
Endosulfan sulfate	0.357	0.291	82	0.357	0.295	83	1	30-150	20
cis-Chlordane	0.357	0.218	61	0.357	0.236	66	8	30-150	20

Method Blank Summary
Form 4
Pesticides

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab Sample ID	: WG1426947-1	**Lab File ID**	: 15201027b-23
Matrix	: WATER	**Extraction Date**	: 10/27/20
Analysis Date (1)	: 10/27/20 14:37	**Analysis Date (2)**	: 10/27/20 14:37
Instrument ID (1)	: PEST15	**Instrument ID (2)**	: PEST15

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1426947-2LCS	WG1426947-2	10/27/20 14:50	10/27/20 14:50
WG1426947-3LCSD	WG1426947-3	10/27/20 15:03	10/27/20 15:03
MW-1	L2046790-01	10/28/20 14:13	10/28/20 14:13
MW-2	L2046790-02	10/28/20 14:26	10/28/20 14:26
MW-3	L2046790-03	10/28/20 14:39	10/28/20 14:39
TWP-1	L2046790-04	10/28/20 14:52	10/28/20 14:52

Analytical Sequence
Form 8b
Pesticides

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: PEST15	**Initial Calib. Date(s)**	: 09/09/20 09/10/20

Client ID	Lab ID	Date/Time Analyzed
R1352682-1 PEM	R1352682-1	09/09/20 22:03
Pesticides L1	R1352682-6	09/09/20 22:16
Pesticides L2	R1352682-8	09/09/20 22:29
Pesticides L3	R1352682-7	09/09/20 22:41
Pesticides L4	R1352682-9	09/09/20 22:55
Pesticides L5	R1352682-10	09/09/20 23:07
Pesticides L6	R1352682-12	09/09/20 23:20
Pesticides L7	R1352682-11	09/09/20 23:33
Pesticides L8	R1352682-14	09/09/20 23:46
Pesticides L9	R1352682-15	09/09/20 23:59
Pesticides L10	R1352682-13	09/10/20 00:12
Toxaphene L2	R1352682-16	09/10/20 01:42
Toxaphene L7	R1352682-18	09/10/20 01:55
Toxaphene L8	R1352682-19	09/10/20 02:08
R1352682-2 PEM	R1352682-2	09/10/20 09:54
R1352682-3 ICV	R1352682-3	09/10/20 10:07
Chlordane RL Check (L3)	R1352682-20	09/10/20 10:33
Chlordane L7	R1352682-17	09/10/20 10:46
R1352682-4 ICV	R1352682-4	09/10/20 10:59
R1352682-5 ICV	R1352682-5	09/10/20 11:25
Chlordane RL Check (L2)	R1352682-21	09/10/20 16:21
R1365660-1 PEM	R1365660-1	10/27/20 08:49
WG1426984-1 CCAL	WG1426984-1	10/27/20 09:02
WG1426984-2 CCAL	WG1426984-2	10/27/20 09:15
WG1426984-3 CCAL	WG1426984-3	10/27/20 09:28
WG1426947-1 BLANK	WG1426947-1	10/27/20 14:37
WG1426947-2 LCS	WG1426947-2	10/27/20 14:50
WG1426947-3 LCSD	WG1426947-3	10/27/20 15:03
R1366368-1 PEM	R1366368-1	10/28/20 05:44
WG1427385-2 CCAL	WG1427385-2	10/28/20 06:10
WG1427385-3 CCAL	WG1427385-3	10/28/20 06:23
WG1427385-4 CCAL	WG1427385-4	10/28/20 11:32
MW-1	L2046790-01	10/28/20 14:13
MW-2	L2046790-02	10/28/20 14:26
MW-3	L2046790-03	10/28/20 14:39
TWP-1	L2046790-04	10/28/20 14:52

Date Created: 11/04/16
Created By: Jason Hebert
File: PM2964-1
Page: 1

Pesticides - EPA 8081B (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 500ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	0.02	0.00467	ug/l	30-150	20	30-150	30	30			
Lindane	58-89-9	0.02	0.00434	ug/l	30-150	20	30-150	30	30			
Alpha-BHC	319-84-6	0.02	0.00439	ug/l	30-150	20	30-150	30	30			
Beta-BHC	319-85-7	0.02	0.0056	ug/l	30-150	20	30-150	30	30			
Heptachlor	76-44-8	0.02	0.0031	ug/l	30-150	20	30-150	30	30			
Aldrin	309-00-2	0.02	0.00216	ug/l	30-150	20	30-150	30	30			
Heptachlor epoxide	1024-57-3	0.02	0.00415	ug/l	30-150	20	30-150	30	30			
Endrin	72-20-8	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
Endrin aldehyde	7421-93-4	0.04	0.0081	ug/l	30-150	20	30-150	30	30			
Endrin ketone	53494-70-5	0.04	0.00477	ug/l	30-150	20	30-150	30	30			
Dieldrin	60-57-1	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
4,4'-DDE	72-55-9	0.04	0.00381	ug/l	30-150	20	30-150	30	30			
4,4'-DDD	72-54-8	0.04	0.00464	ug/l	30-150	20	30-150	30	30			
4,4'-DDT	50-29-3	0.04	0.00432	ug/l	30-150	20	30-150	30	30			
Endosulfan I	959-98-8	0.02	0.00345	ug/l	30-150	20	30-150	30	30			
Endosulfan II	33213-65-9	0.04	0.00519	ug/l	30-150	20	30-150	30	30			
Endosulfan sulfate	1031-07-8	0.04	0.00481	ug/l	30-150	20	30-150	30	30			
Methoxychlor	72-43-5	0.2	0.00684	ug/l	30-150	20	30-150	30	30			
Toxaphene	8001-35-2	0.2	0.0627	ug/l	30-150	20	30-150	30	30			
Chlordane	57-74-9	0.2	0.0463	ug/l	40-140	20	30-150	30	30			
cis-Chlordane	5103-71-9	0.02	0.00666	ug/l	30-150	20	30-150	30	30			
trans-Chlordane	5103-74-2	0.02	0.00627	ug/l	30-150	20	30-150	30	30			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/04/16
Created By: Jason Hebert
File: PM2965-1
Page: 1

Pesticides - EPA 8081B (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	8.00	1.58	ug/kg	30-150	30	30-150	50	50			
Lindane	58-89-9	3.33	1.49	ug/kg	30-150	30	30-150	50	50			
Alpha-BHC	319-84-6	3.33	0.95	ug/kg	30-150	30	30-150	50	50			
Beta-BHC	319-85-7	8.00	3.03	ug/kg	30-150	30	30-150	50	50			
Heptachlor	76-44-8	4.00	1.79	ug/kg	30-150	30	30-150	50	50			
Aldrin	309-00-2	8.00	2.82	ug/kg	30-150	30	30-150	50	50			
Heptachlor epoxide	1024-57-3	15.0	4.50	ug/kg	30-150	30	30-150	50	50			
Endrin	72-20-8	3.33	1.37	ug/kg	30-150	30	30-150	50	50			
Endrin aldehyde	7421-93-4	10.0	3.50	ug/kg	30-150	30	30-150	50	50			
Endrin ketone	53494-70-5	8.00	2.06	ug/kg	30-150	30	30-150	50	50			
Dieldrin	60-57-1	5.00	2.50	ug/kg	30-150	30	30-150	50	50			
4,4'-DDE	72-55-9	8.00	1.85	ug/kg	30-150	30	30-150	50	50			
4,4'-DDD	72-54-8	8.00	2.85	ug/kg	30-150	30	30-150	50	50			
4,4'-DDT	50-29-3	15.0	6.43	ug/kg	30-150	30	30-150	50	50			
Endosulfan I	959-98-8	8.00	1.89	ug/kg	30-150	30	30-150	50	50			
Endosulfan II	33213-65-9	8.00	2.67	ug/kg	30-150	30	30-150	50	50			
Endosulfan sulfate	1031-07-8	3.33	1.52	ug/kg	30-150	30	30-150	50	50			
Methoxychlor	72-43-5	15.0	4.67	ug/kg	30-150	30	30-150	50	50			
Toxaphene	8001-35-2	150	42.0	ug/kg	30-150	30	30-150	50	50			
Chlordane	57-74-9	65.0	26.5	ug/kg	30-150	30	30-150	50	50			
cis-Chlordane	5103-71-9	10.0	2.79	ug/kg	30-150	30	30-150	50	50			
trans-Chlordane	5103-74-2	10.0	2.64	ug/kg	30-150	30	30-150	50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Pesticide Sample Data

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Impact Environmental	Lab Number	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	Project Number	: 15209
Lab ID	: L2046790-01	Date Collected	: 10/27/20 08:15
Client ID	: MW-1	Date Received	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	Date Analyzed	: 10/28/20 14:13
Sample Matrix	: WATER	Date Extracted	: 10/28/20
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 15201028a-35	Analyst	: BM
Sample Amount	: 140 ml	Instrument ID	: PEST15
Extraction Method	: EPA 3510C	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
72-20-8	Endrin	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Impact Environmental	Lab Number	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	Project Number	: 15209
Lab ID	: L2046790-02	Date Collected	: 10/27/20 09:30
Client ID	: MW-2	Date Received	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	Date Analyzed	: 10/28/20 14:26
Sample Matrix	: WATER	Date Extracted	: 10/28/20
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 15201028a-36	Analyst	: BM
Sample Amount	: 140 ml	Instrument ID	: PEST15
Extraction Method	: EPA 3510C	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
72-20-8	Endrin	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Impact Environmental	Lab Number	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	Project Number	: 15209
Lab ID	: L2046790-03	Date Collected	: 10/27/20 10:15
Client ID	: MW-3	Date Received	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	Date Analyzed	: 10/28/20 14:39
Sample Matrix	: WATER	Date Extracted	: 10/28/20
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 15201028a-37	Analyst	: BM
Sample Amount	: 140 ml	Instrument ID	: PEST15
Extraction Method	: EPA 3510C	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
72-20-8	Endrin	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-03	**Date Collected**	: 10/27/20 10:15
Client ID	: MW-3	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/28/20 14:39
Sample Matrix	: WATER	**Date Extracted**	: 10/28/20
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 15201028a-37	**Analyst**	: BM
Sample Amount	: 140 ml	**Instrument ID**	: PEST15
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticidesII
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
5103-71-9	cis-Chlordane	0.108	0.014	0.005	IP

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Impact Environmental	Lab Number	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	Project Number	: 15209
Lab ID	: L2046790-04	Date Collected	: 10/27/20 08:45
Client ID	: TWP-1	Date Received	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	Date Analyzed	: 10/28/20 14:52
Sample Matrix	: WATER	Date Extracted	: 10/28/20
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 15201028a-38	Analyst	: BM
Sample Amount	: 140 ml	Instrument ID	: PEST15
Extraction Method	: EPA 3510C	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
72-20-8	Endrin	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Impact Environmental	Lab Number	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	Project Number	: 15209
Lab ID	: WG1426947-1	Date Collected	: NA
Client ID	: WG1426947-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 10/27/20 14:37
Sample Matrix	: WATER	Date Extracted	: 10/27/20
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 15201027b-23	Analyst	: SM
Sample Amount	: 140 ml	Instrument ID	: PEST15
Extraction Method	: EPA 3510C	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
72-20-8	Endrin	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\201028a\
Data File : 15201028a-35.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2020 2:13 pm
Operator : PEST15:bm
Sample : L2046790-01,42,,
Misc : wg1427385,wg1426947,ical17155
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 12:27:24 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 15:23:48 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest15\201028a\15201028a-24.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.727	1.804	117.6E6	71271768	25.000	25.000
	Standard Area 1 : #1 = 147444645				Recovery =	79.76%	
	Standard Area 1 : #2 = 69652189				Recovery =	102.33%	
28) i	1-br-2-nb_Ch	1.727	1.804	117.6E6	71271768	25.000	25.000
33) i	1-br-2-nb_To	1.727	1.804	117.6E6	71271768	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.197	2.380	220.4E6	116.9E6	44.433	35.923
	Spiked Amount 50.000	Range 30 - 150			Recovery =	88.87%	71.85%
27) s	Decachlorobi	6.149	6.666	65561075	58718004	18.457	26.798M3
	Spiked Amount 50.000	Range 30 - 150			Recovery =	36.91%	53.60%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

Data Path : I:\Pest15\201028a\
Data File : 15201028a-35.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2020 2:13 pm
Operator : PEST15:bm
Sample : L2046790-01,42,,
Misc : wg1427385,wg1426947,ical17155
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 12:27:24 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 15:23:48 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest15\201028a\15201028a-24.d
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

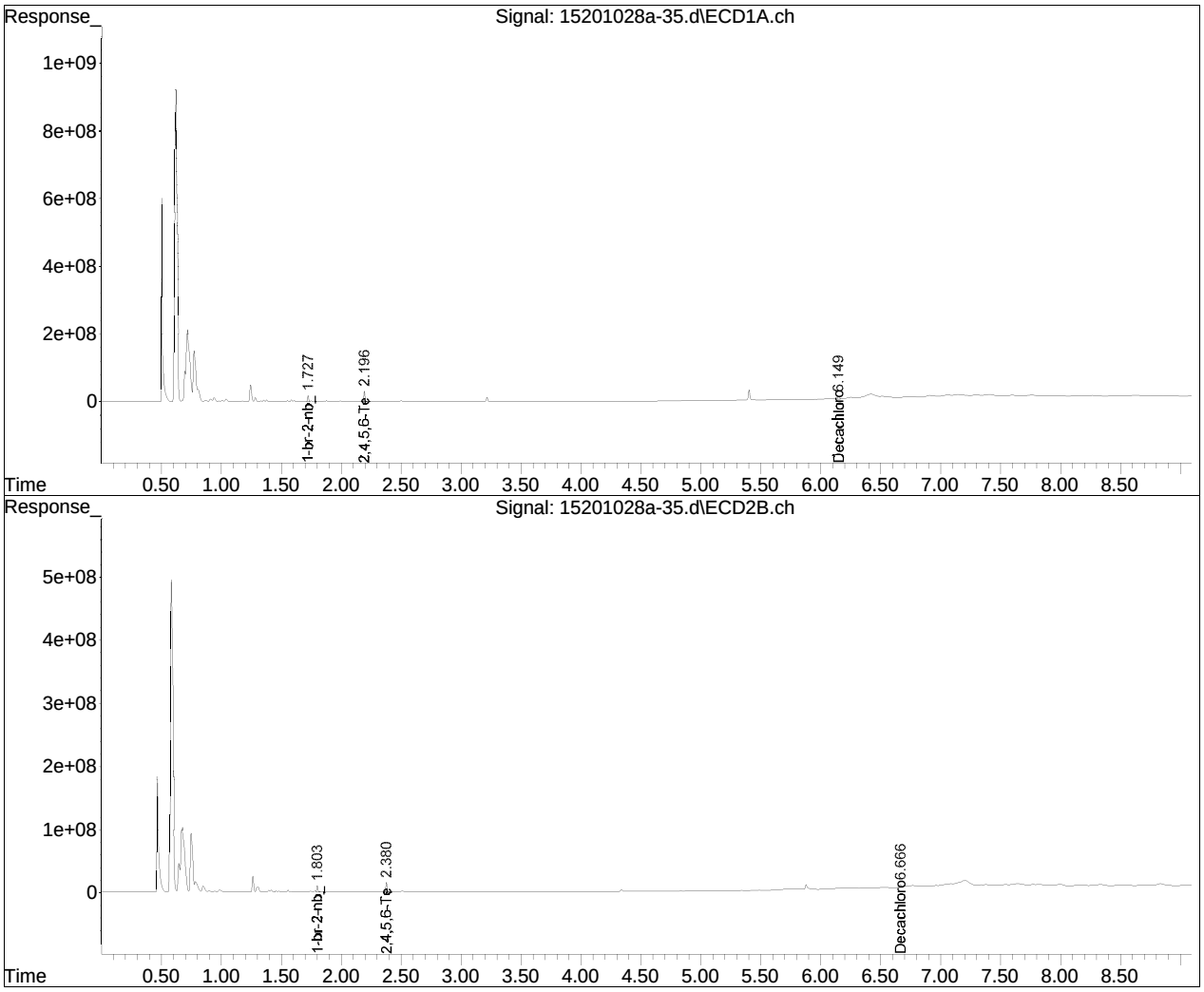
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda-24.d••d)

Data Path : I:\Pest15\201028a\
Data File : 15201028a-35.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2020 2:13 pm
Operator : PEST15:bm
Sample : L2046790-01,42,,
Misc : wg1427385,wg1426947,ical17155
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 12:27:24 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 15:23:48 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

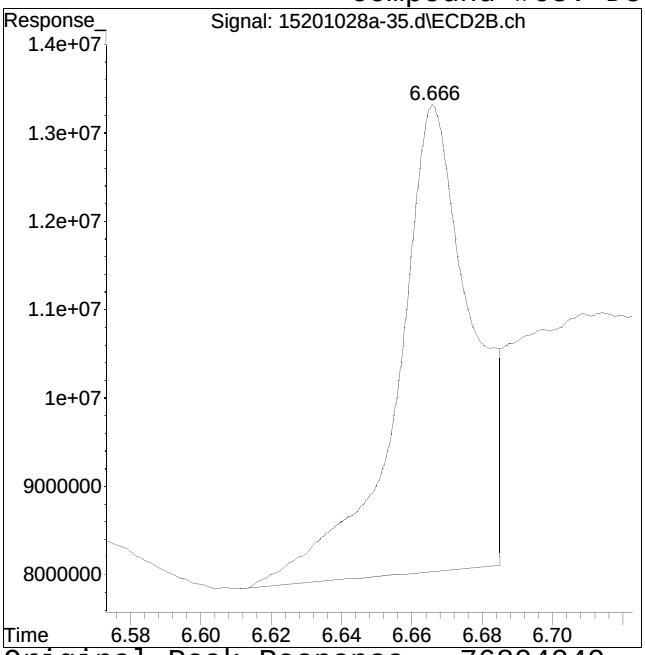


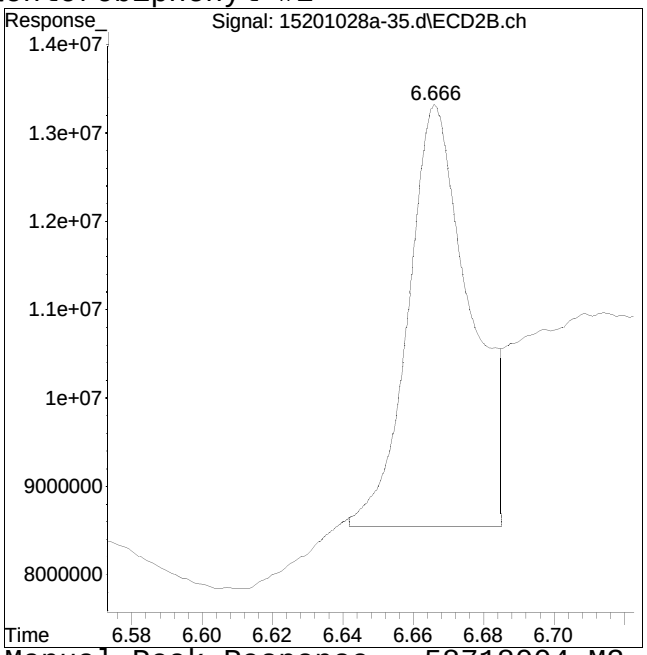
Manual Integration Report

Data Path : I:\Pest15\201028a\
Data File : 15201028a-35.d
Date Inj'd : 10/28/2020 2:13 pm
Sample : L2046790-01,42,,

QMethod : P15_pest_09_09_20_ugL_IC
Operator : PEST15:bm
Instrument : Pest 15
Quant Date : 10/29/2020 12:26 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 76804040 Manual Peak Response = 58718004 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\201028a\
Data File : 15201028a-36.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2020 2:26 pm
Operator : PEST15:bm
Sample : L2046790-02,42,,
Misc : wg1427385,wg1426947,ical17155
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 12:28:53 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 15:23:48 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest15\201028a\15201028a-24.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.727	1.803	118.9E6	70661267	25.000	25.000
	Standard Area 1 : #1 = 147444645				Recovery =	80.65%	
	Standard Area 1 : #2 = 69652189				Recovery =	101.45%	
28) i	1-br-2-nb_Ch	1.727	1.803	118.9E6	70661267	25.000	25.000
33) i	1-br-2-nb_To	1.727	1.803	118.9E6	70661267	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.196	2.380	206.6E6	111.6E6	41.181	34.588
	Spiked Amount 50.000	Range 30 - 150			Recovery =	82.36%	69.18%
27) s	Decachlorobi	6.149	6.666	93507985	74568865	26.035	34.326
	Spiked Amount 50.000	Range 30 - 150			Recovery =	52.07%	68.65%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D.
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

Data Path : I:\Pest15\201028a\
Data File : 15201028a-36.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2020 2:26 pm
Operator : PEST15:bm
Sample : L2046790-02,42,,
Misc : wg1427385,wg1426947,ical17155
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 12:28:53 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 15:23:48 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest15\201028a\15201028a-24.d
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

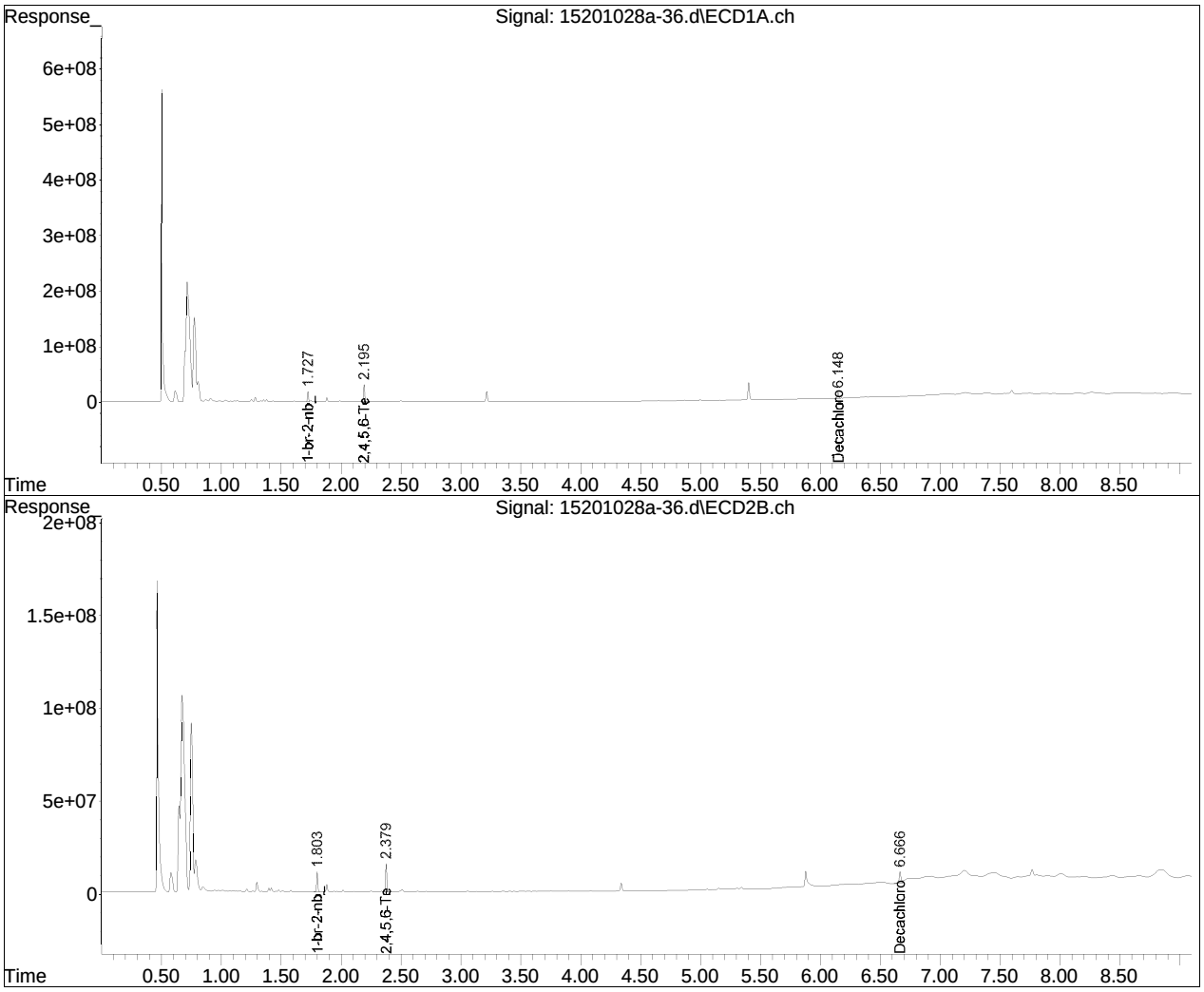
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda-24.d••d)

Data Path : I:\Pest15\201028a\
Data File : 15201028a-36.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2020 2:26 pm
Operator : PEST15:bm
Sample : L2046790-02,42,,
Misc : wg1427385,wg1426947,ical17155
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 12:28:53 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 15:23:48 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest15\201028a\	QMethod	: P15_pest_09_09_20_ugL_IC
Data File	: 15201028a-36.d	Operator	: PEST15:bm
Date Inj'd	: 10/28/2020 2:26 pm	Instrument	: Pest 15
Sample	: L2046790-02,42,,	Quant Date	: 10/29/2020 12:27 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\201028a\
Data File : 15201028a-37.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2020 2:39 pm
Operator : PEST15:bm
Sample : L2046790-03,42,,
Misc : wg1427385,wg1426947,ical17155
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 12:30:57 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 15:23:48 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest15\201028a\15201028a-24.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.727	1.803	126.1E6	72431975	25.000	25.000
	Standard Area 1 : #1 = 147444645				Recovery =	85.49%	
	Standard Area 1 : #2 = 69652189				Recovery =	103.99%	
28) i	1-br-2-nb_Ch	1.727	1.803	126.1E6	72431975	25.000	25.000
33) i	1-br-2-nb_To	1.727	1.803	126.1E6	72431975	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.195	2.380	226.1E6	120.5E6	42.511	36.449
	Spiked Amount 50.000	Range 30 - 150		Recovery =		85.02%	72.90%
27) s	Decachlorobi	6.148	6.664	66545264	39158582	17.478	17.585M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =		34.96%	35.17%
	Target Compounds						
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	4.032	4.463	133.2E6	48301585	23.270M3	15.144M3I
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
	SemiQuant Compounds - Not Calibrated on this Instrument						

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\201028a\
Data File : 15201028a-37.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2020 2:39 pm
Operator : PEST15:bm
Sample : L2046790-03,42,,
Misc : wg1427385,wg1426947,ical17155
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 12:30:57 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 15:23:48 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest15\201028a\15201028a-24.d
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

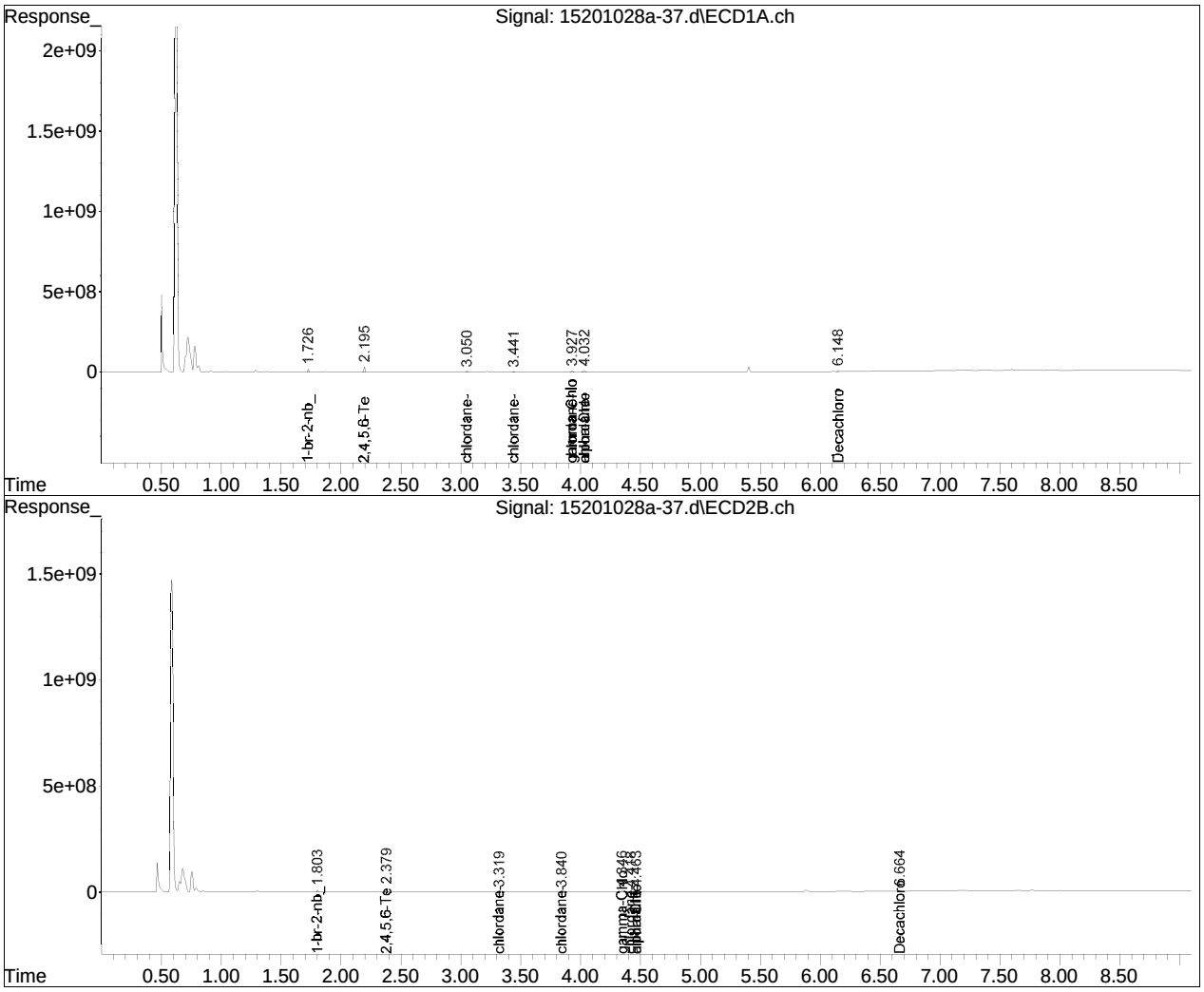
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda-24.d••d)

Data Path : I:\Pest15\201028a\
Data File : 15201028a-37.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2020 2:39 pm
Operator : PEST15:bm
Sample : L2046790-03,42,,
Misc : wg1427385,wg1426947,ical17155
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 12:30:57 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 15:23:48 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

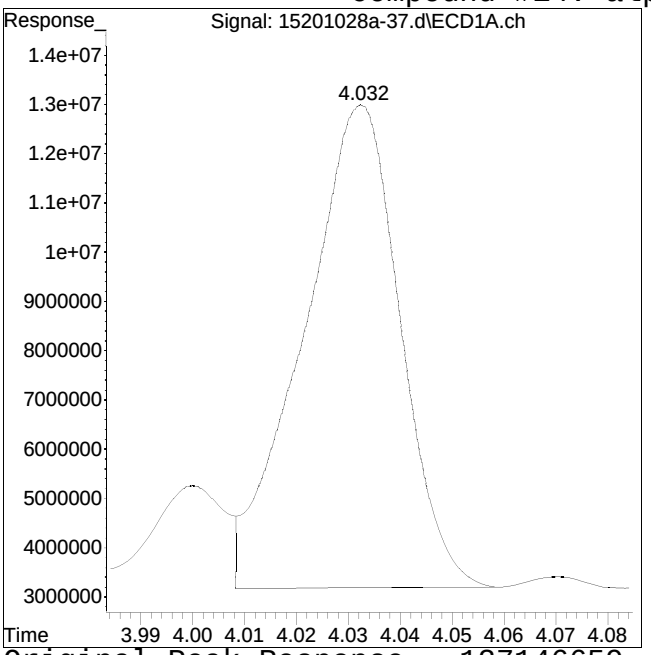


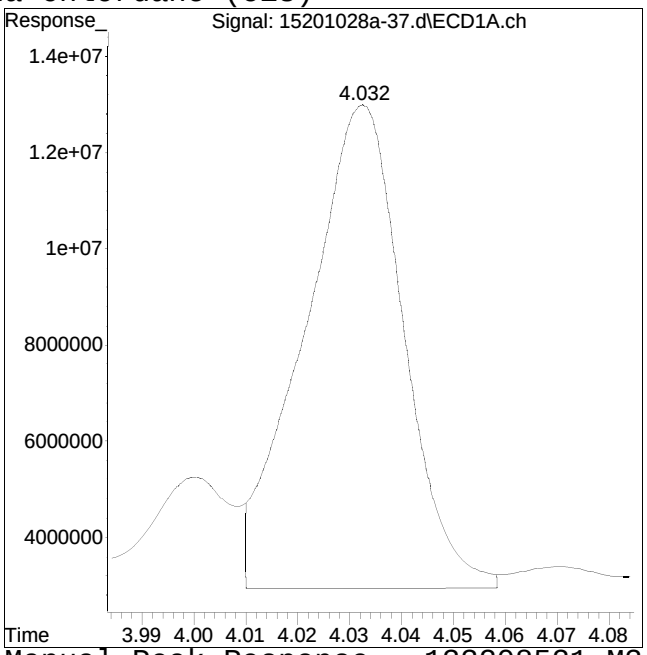
Manual Integration Report

Data Path : I:\Pest15\201028a\
Data File : 15201028a-37.d
Date Inj'd : 10/28/2020 2:39 pm
Sample : L2046790-03,42,,

QMethod : P15_pest_09_09_20_ugL_IC
Operator : PEST15:bm
Instrument : Pest 15
Quant Date : 10/29/2020 12:29 pm

Compound #14: alpha-Chlordane (cis)



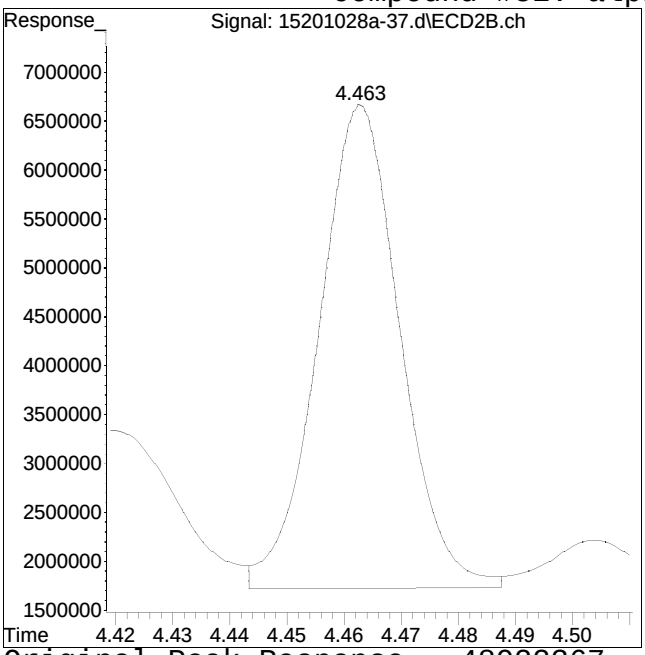


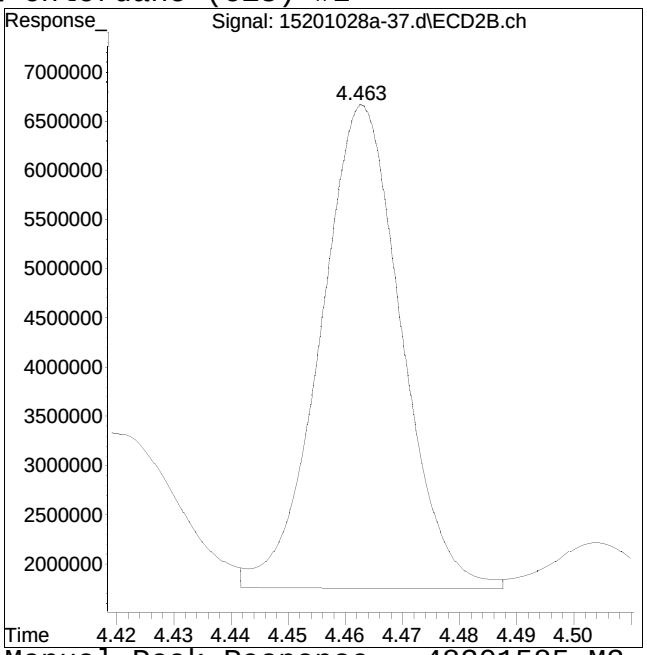
Original Peak Response = 127146659 Manual Peak Response = 133208521 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path	: I:\Pest15\201028a\	QMethod	: P15_pest_09_09_20_ugL_IC
Data File	: 15201028a-37.d	Operator	: PEST15:bm
Date Inj'd	: 10/28/2020 2:39 pm	Instrument	: Pest 15
Sample	: L2046790-03,42,,	Quant Date	: 10/29/2020 12:29 pm

Compound #52: alpha-Chlordane (cis) #2





Original Peak Response = 48922367 Manual Peak Response = 48301585 M3

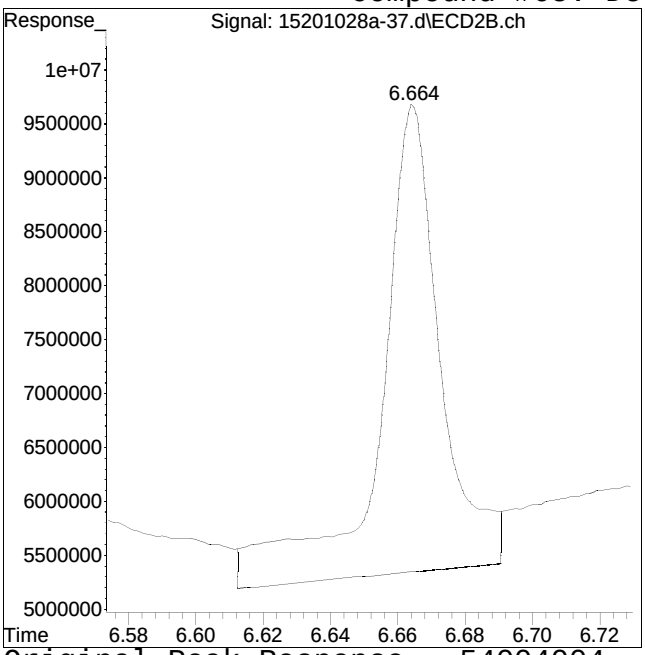
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

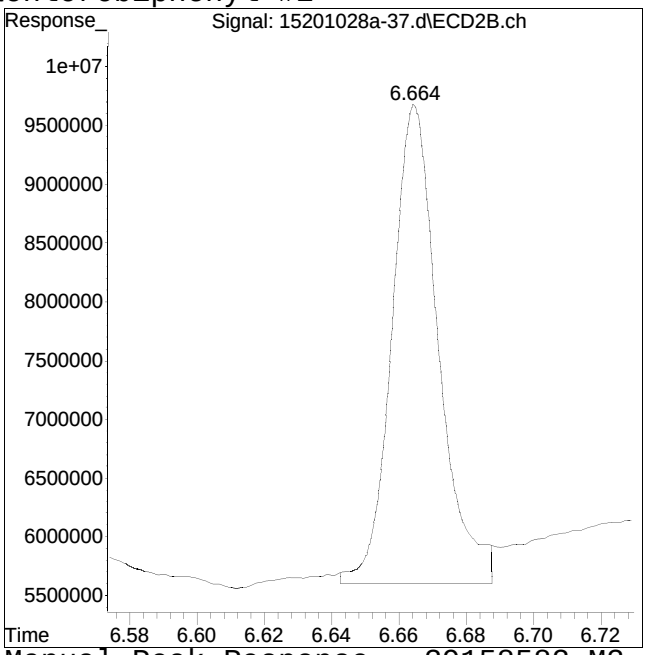
Manual Integration Report

Data Path : I:\Pest15\201028a\
Data File : 15201028a-37.d
Date Inj'd : 10/28/2020 2:39 pm
Sample : L2046790-03,42,,

QMethod : P15_pest_09_09_20_ugL_IC
Operator : PEST15:bm
Instrument : Pest 15
Quant Date : 10/29/2020 12:29 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 54004004 Manual Peak Response = 39158582 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\201028a\
Data File : 15201028a-38.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2020 2:52 pm
Operator : PEST15:bm
Sample : L2046790-04,42,,
Misc : wg1427385,wg1426947,ical17155
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 12:32:18 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 15:23:48 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest15\201028a\15201028a-24.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.727	1.804	128.0E6	78000731	25.000	25.000
	Standard Area 1 : #1 = 147444645				Recovery =	86.82%	
	Standard Area 1 : #2 = 69652189				Recovery =	111.99%	
28) i	1-br-2-nb_Ch	1.727	1.804	128.0E6	78000731	25.000	25.000
33) i	1-br-2-nb_To	1.727	1.804	128.0E6	78000731	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.196	2.380	235.4E6	125.9E6	43.600	35.362
	Spiked Amount 50.000	Range 30 - 150			Recovery =	87.20%	70.72%
27) s	Decachlorobi	6.149	6.665	69401216	91788049	17.950	38.277
	Spiked Amount 50.000	Range 30 - 150			Recovery =	35.90%	76.55%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
SemiQuant Compounds - Not Calibrated on this Instrument							

Data Path : I:\Pest15\201028a\
Data File : 15201028a-38.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2020 2:52 pm
Operator : PEST15:bm
Sample : L2046790-04,42,,
Misc : wg1427385,wg1426947,ical17155
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 12:32:18 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 15:23:48 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest15\201028a\15201028a-24.d
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

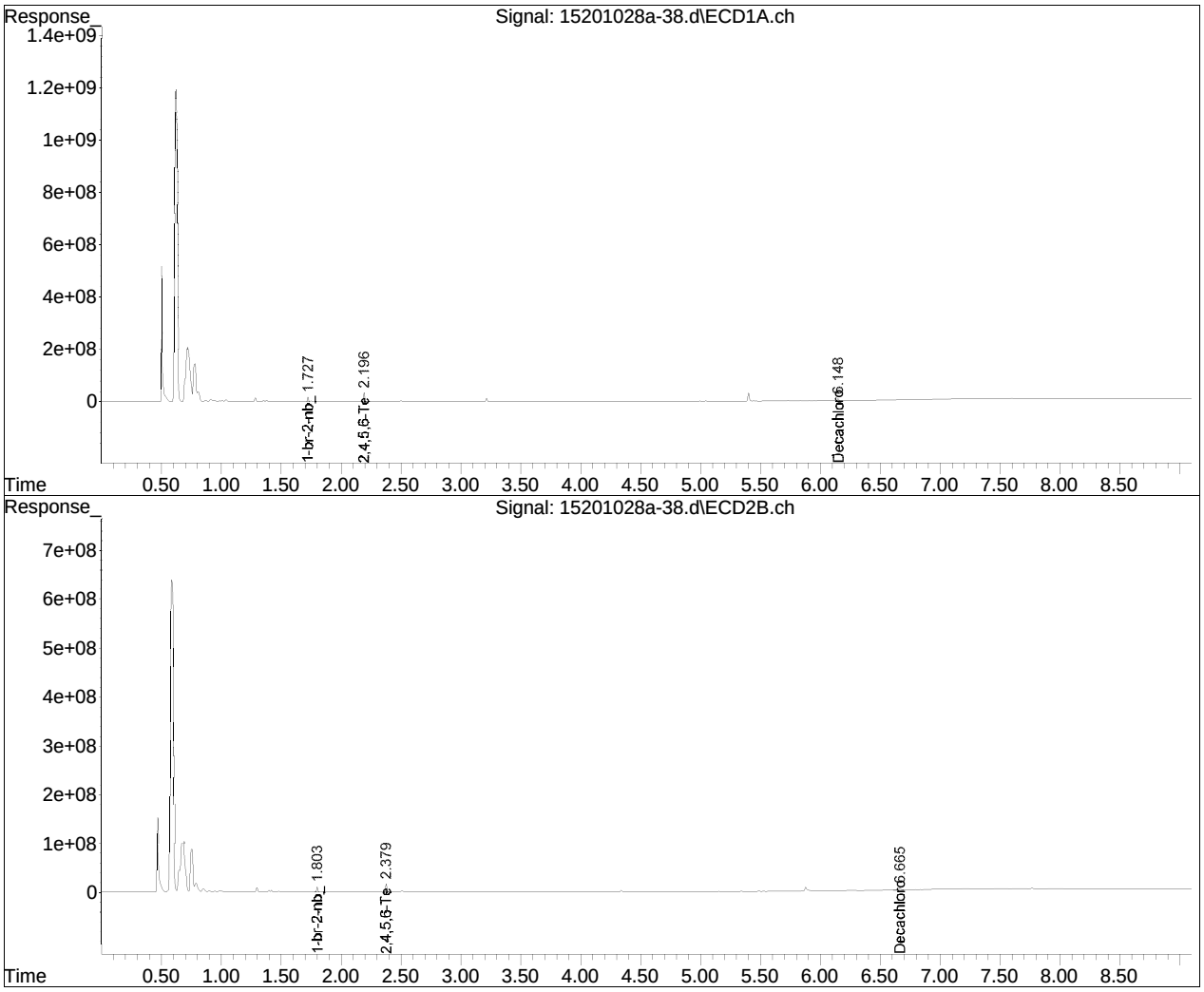
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda-24.d••d)

Data Path : I:\Pest15\201028a\
Data File : 15201028a-38.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2020 2:52 pm
Operator : PEST15:bm
Sample : L2046790-04,42,,
Misc : wg1427385,wg1426947,ical17155
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 29 12:32:18 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 15:23:48 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest15\201028a\	QMethod	: P15_pest_09_09_20_ugL_IC
Data File	: 15201028a-38.d	Operator	: PEST15:bm
Date Inj'd	: 10/28/2020 2:52 pm	Instrument	: Pest 15
Sample	: L2046790-04,42,,	Quant Date	: 10/29/2020 12:31 pm

There are no manual integrations or false positives in this file.

Pesticides Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Pesticides

Client	**: Impact Environmental**	**Lab Number**	**: L2046790**
Project Name	**: 13-12 BEACH CHANNEL DRIVE**	**Project Number**	**: 15209**
Instrument ID	**: PEST15**	**Ical Ref**	**: ICAL17155**
Calibration dates	**: 09/09/20 22:16 09/10/20 16:21**		

Calibration Files

1 =15200909i-05.d 2 =15200909i-21.d 3 =15200909i-07.d 4 =15200909i-08.d 5 =15200909i-09.d

6 =15200909i-10.d 7 =15200909i-30.d 8 =15200909i-23.d 9 =15200909i-13.d 10 =15200909i-14.d

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetrachloro-m-xylene		1.195	1.070	1.082	1.066	1.060	1.034	1.022	0.995	0.968	1.055	6.13
3)		Hexachlorobenzene		1.268	1.328	1.326	1.279	1.256	1.239	1.136	1.085	1.046	1.218	8.51
4)		alpha-BHC		1.266	1.338	1.297	1.260	1.273	1.290	1.375	1.380	1.376	1.317	3.81
5)		gamma-BHC (li	1.374	1.187	1.208	1.265	1.207	1.215	1.229	1.275	1.263	1.251	1.247	4.28
6)		beta-BHC		0.782	0.668	0.668	0.668	0.670	0.629	0.619	0.595	0.560	0.651	9.64
7)		delta-BHC		1.259	1.172	1.243	1.161	1.178	1.208	1.283	1.283	1.275	1.229	4.06
8)		Heptachlor		1.302	1.334	1.320	1.243	1.276	1.259	1.248	1.222	1.168	1.264	4.07
9)		Aldrin		1.004	1.113	1.087	1.041	1.066	1.057	1.118	1.120	1.084	1.077	3.61
10)		Alachlor		0.187	0.198	0.183	0.180	0.192	0.193	0.166	0.158	0.138	0.177	11.04
11)		Chlorpyrifos		0.802	0.704	0.731	0.676	0.696	0.647	0.575	0.530		0.670	12.86
12)		Heptachlor Epoxide		1.173	1.194	1.172	1.103	1.119	1.085	1.073	1.047	0.985	1.106	6.11
13)		gamma-Chlordane (trans)			1.166	1.194	1.087	1.079	1.090	1.091	1.088	1.044	1.105	4.45
14)		alpha-Chlordane (cis)		1.160	1.248	1.286	1.132	1.141	1.115	1.069	1.063	1.004	1.135	7.83
15)		4,4'-DDE		0.972	1.049	1.032	0.965	0.971	1.009	1.063	1.081	1.029	1.019	4.17
16)		Endosulfan I		1.062	1.007	1.016	0.967	0.978	0.964	0.978	0.962	0.901	0.982	4.51
17)		Dieldrin		1.050	0.987	1.025	0.959	0.981	0.967	1.018	1.019	0.967	0.997	3.19
18)		Endrin		1.101	1.088	1.058	0.990	1.011	0.993	1.036	1.025	0.965	1.030	4.44
19)		4,4'-DDD		0.847	0.721	0.794	0.750	0.776	0.756	0.821	0.828	0.774	0.785	5.25
20)		Endosulfan II		1.058	0.971	1.061	0.962	0.968	0.933	0.943	0.923	0.858	0.964	6.64
21)		4,4'-DDT		1.007	0.949	0.980	0.937	0.900	0.905	0.960	0.966	0.904	0.945	3.94
22)		Endrin Aldehyde		0.915	0.825	0.804	0.768	0.746	0.787	0.752	0.760	0.694	0.784	7.89
23)		Methoxychlor		0.587	0.595	0.626	0.561	0.549	0.557	0.500	0.495	0.430	0.545	11.04
24)		Mirex		1.067	1.009	0.992	0.907	0.875	0.845	0.749	0.723		0.896	13.75
25)		Endosulfan Sulfate		1.062	0.923	0.854	0.822	0.824	0.787	0.792	0.788	0.731	0.843	11.59
26)		Endrin Ketone		1.145	1.051	1.034	0.976	0.965	0.941	0.938	0.924	0.849	0.980	8.74
27)	s	Decachlorobiphenyl		0.821	0.839	0.877	0.814	0.795	0.754	0.664	0.650	0.583	0.755	13.26
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1							0.038				0.038	0.00
30)	l1	chlordane-3							0.041				0.041	0.00
31)	l1	chlordane-4							0.127				0.127	0.00
32)	l1	chlordane-5							0.193				0.193	0.00
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1		0.046					0.050	0.048			*L	0.999
7)														
35)	l2	toxaphene-2		0.052					0.069	0.066			*L	0.999

Initial Calibration Summary
Form 6
Pesticides

Client	**: Impact Environmental**	**Lab Number**	**: L2046790**
Project Name	**: 13-12 BEACH CHANNEL DRIVE**	**Project Number**	**: 15209**
Instrument ID	**: PEST15**	**Ical Ref**	**: ICAL17155**
Calibration dates	**: 09/09/20 22:16 09/10/20 16:21**		

Calibration Files

1 =15200909i-05.d 2 =15200909i-21.d 3 =15200909i-07.d 4 =15200909i-08.d 5 =15200909i-09.d

6 =15200909i-10.d 7 =15200909i-30.d 8 =15200909i-23.d 9 =15200909i-13.d 10 =15200909i-14.d

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
6)														
36)	l2	toxaphene-4		0.027					0.035	0.040			*L	0.997
5)														
37)	l2	toxaphene-5		0.032					0.033	0.037			*L	0.997
6)														

Initial Calibration Summary
Form 6
Pesticides

Client	**: Impact Environmental**	**Lab Number**	**: L2046790**
Project Name	**: 13-12 BEACH CHANNEL DRIVE**	**Project Number**	**: 15209**
Instrument ID	**: PEST15**	**Ical Ref**	**: ICAL17155**
Calibration dates	**: 09/09/20 22:16 09/10/20 16:21**		

Signal #2 Calibration Files

1 =15200909i-05.d 2 =15200909i-35.d 3 =15200909i-07.d 4 =15200909i-08.d 5 =15200909i-09.d
6 =15200909i-10.d 7 =15200909i-30.d 8 =15200909i-23.d 9 =15200909i-13.d 10 =15200909i-14.d

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra			1.142	1.194	1.214	1.137	1.121	1.097	1.123	1.127	1.117	1.141	3.34
3)		Hexachloroben			1.437	1.447	1.409	1.365	1.337	1.285	1.233	1.224	1.205	1.327	7.09
4)		alpha-BHC			1.279	1.322	1.324	1.311	1.316	1.352	1.539	1.607	1.626	1.409	9.93
5)		gamma-BHC (li		1.365	1.294	1.292	1.284	1.259	1.243	1.262	1.390	1.435	1.443	1.327	5.65
6)		beta-BHC			0.852	0.762	0.739	0.730	0.713	0.676	0.659	0.655	0.643	0.714	9.29
7)		delta-BHC			1.333	1.263	1.258	1.227	1.214	1.245	1.398	1.456	1.474	1.319	7.64
8)		Heptachlor			1.380	1.436	1.435	1.335	1.298	1.300	1.368	1.397	1.364	1.368	3.71
9)		Aldrin			1.064	1.114	1.123	1.096	1.066	1.098	1.213	1.260	1.237	1.141	6.59
10)		Alachlor		0.217	0.219	0.227	0.222	0.212	0.209	0.185	0.175	0.154	0.202	12.35	
11)		Chlorpyrifos		0.790	0.776	0.789	0.751	0.725	0.696	0.612	0.590		0.716	10.90	
12)		Heptachlor Ep		1.239	1.167	1.175	1.135	1.125	1.097	1.107	1.131	1.095	1.141	4.04	
13)		gamma-Chlorda			2.040	1.769	1.587	1.429	1.250	1.140	1.157	1.123	*L	0.999	
7)															
14)		alpha-Chlorda		1.183	1.143	1.153	1.096	1.058	1.060	1.060	1.093	1.061	1.101	4.33	
15)		4,4'-DDE		0.938	0.927	0.974	0.946	0.919	0.947	1.014	1.073	1.039	0.975	5.57	
16)		Endosulfan I		1.000	0.992	1.009	0.970	0.937	0.944	0.961	0.992	0.959	0.974	2.61	
17)		Dieldrin		0.983	0.992	0.996	0.961	0.927	0.949	0.999	1.043	1.022	0.986	3.66	
18)		Endrin		1.015	0.971	1.014	0.976	0.920	0.946	0.989	1.032	1.004	0.985	3.65	
19)		4,4'-DDD		0.748	0.722	0.770	0.735	0.698	0.738	0.771	0.811	0.782	0.753	4.55	
20)		Endosulfan II		1.107	1.003	1.007	0.958	0.904	0.909	0.890	0.915	0.880	0.953	7.80	
21)		4,4'-DDT		0.972	0.928	0.966	0.954	0.909	0.906	0.897	0.941	0.909	0.931	3.02	
22)		Endrin Aldehyde		0.930	0.812	0.820	0.785	0.744	0.750	0.732	0.750	0.712	0.782	8.48	
23)		Methoxychlor		0.577	0.544	0.575	0.548	0.512	0.514	0.467	0.467	0.430	0.515	9.99	
24)		Mirex		0.930	0.898	0.911	0.845	0.792	0.759	0.636	0.630		0.800	14.83	
25)		Endosulfan Su		0.961	0.885	0.882	0.849	0.814	0.807	0.777	0.796	0.759	0.836	7.65	
26)		Endrin Ketone		1.128	1.007	1.008	0.953	0.914	0.942	0.926	0.931	0.894	0.967	7.40	
27)	s	Decachlorobip		0.863	0.869	0.898	0.839	0.781	0.762	0.656	0.652	0.598	0.769	14.29	
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1							0.043				0.043	0.00	
30)	l1	chlordane-3							0.041				0.041	0.00	
31)	l1	chlordane-4							0.111				0.111	0.00	
32)	l1	chlordane-5							0.109				0.109	0.00	
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1		0.019					0.019	0.021			0.020	4.45	
35)	l2	toxaphene-2		0.030					0.030	0.031			0.031	2.62	

Initial Calibration Summary
Form 6
Pesticides

Client	**: Impact Environmental**	**Lab Number**	**: L2046790**
Project Name	**: 13-12 BEACH CHANNEL DRIVE**	**Project Number**	**: 15209**
Instrument ID	**: PEST15**	**Ical Ref**	**: ICAL17155**
Calibration dates	**: 09/09/20 22:16 09/10/20 16:21**		

Signal #2 Calibration Files

1 =15200909i-05.d 2 =15200909i-35.d 3 =15200909i-07.d 4 =15200909i-08.d 5 =15200909i-09.d
6 =15200909i-10.d 7 =15200909i-30.d 8 =15200909i-23.d 9 =15200909i-13.d 10 =15200909i-14.d

	Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
36) l2	toxaphene-4		0.037					0.034	0.037			0.036	3.90
37) l2	toxaphene-5		0.030					0.031	0.033			0.031	4.48

Response Factor Report Pest 15

Method Path : I:\Pest15\200909ICAL\
Method File : P15_pest_09_09_20_ugL_ICAL.m
Title : pest
Last Update : Tue Sep 22 16:31:09 2020
Response Via : Initial Calibration

Calibration Files
1 =15200909i-05.d 2 =15200909i-21.d 3 =15200909i-07.d 4 =15200909i-08.d 5 =15200909i-09.d
6 =15200909i-10.d 7 =15200909i-30.d 8 =15200909i-23.d 9 =15200909i-13.d 10 =15200909i-14.d

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...		1.195	1.070	1.082	1.066	1.060	1.034	1.022	0.995	0.968	1.055	6.13
3)		Hexachloroben...		1.268	1.328	1.326	1.279	1.256	1.239	1.136	1.085	1.046	1.218	8.51
4)		alpha-BHC		1.266	1.338	1.297	1.260	1.273	1.290	1.375	1.380	1.376	1.317	3.81
5)		gamma-BHC (li...	1.374	1.187	1.208	1.265	1.207	1.215	1.229	1.275	1.263	1.251	1.247	4.28
6)		beta-BHC		0.782	0.668	0.668	0.668	0.670	0.629	0.619	0.595	0.560	0.651	9.64
7)		delta-BHC		1.259	1.172	1.243	1.161	1.178	1.208	1.283	1.283	1.275	1.229	4.06
8)		Heptachlor		1.302	1.334	1.320	1.243	1.276	1.259	1.248	1.222	1.168	1.264	4.07
9)		Aldrin		1.004	1.113	1.087	1.041	1.066	1.057	1.118	1.120	1.084	1.077	3.61
10)		Alachlor		0.187	0.198	0.183	0.180	0.192	0.193	0.166	0.158	0.138	0.177	11.04
11)		Chlorpyrifos		0.802	0.704	0.731	0.676	0.696	0.647	0.575	0.530		0.670	12.86
12)		Heptachlor Ep...		1.173	1.194	1.172	1.103	1.119	1.085	1.073	1.047	0.985	1.106	6.11
13)		gamma-Chlorda...			1.166	1.194	1.087	1.079	1.090	1.091	1.088	1.044	1.105	4.45
14)		alpha-Chlorda...		1.160	1.248	1.286	1.132	1.141	1.115	1.069	1.063	1.004	1.135	7.83
15)		4,4'-DDE		0.972	1.049	1.032	0.965	0.971	1.009	1.063	1.081	1.029	1.019	4.17
16)		Endosulfan I		1.062	1.007	1.016	0.967	0.978	0.964	0.978	0.962	0.901	0.982	4.51

Response Factor Report Pest 15

Method Path : I:\Pest15\200909ICAL\
Method File : P15_pest_09_09_20_ugL_ICAL.m
Title : pest
Last Update : Tue Sep 22 16:31:09 2020
Response Via : Initial Calibration

Calibration Files
1 =15200909i-05.d 2 =15200909i-21.d 3 =15200909i-07.d 4 =15200909i-08.d 5 =15200909i-09.d
6 =15200909i-10.d 7 =15200909i-30.d 8 =15200909i-23.d 9 =15200909i-13.d 10 =15200909i-14.d

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
17)		Dieldrin	1.050	0.987	1.025	0.959	0.981	0.967	1.018	1.019	0.967		0.997	3.19
18)		Endrin	1.101	1.088	1.058	0.990	1.011	0.993	1.036	1.025	0.965		1.030	4.44
19)		4,4'-DDD	0.847	0.721	0.794	0.750	0.776	0.756	0.821	0.828	0.774		0.785	5.25
20)		Endosulfan II	1.058	0.971	1.061	0.962	0.968	0.933	0.943	0.923	0.858		0.964	6.64
21)		4,4'-DDT	1.007	0.949	0.980	0.937	0.900	0.905	0.960	0.966	0.904		0.945	3.94
22)		Endrin Aldehyde	0.915	0.825	0.804	0.768	0.746	0.787	0.752	0.760	0.694		0.784	7.89
23)		Methoxychlor	0.587	0.595	0.626	0.561	0.549	0.557	0.500	0.495	0.430		0.545	11.04
24)		Mirex	1.067	1.009	0.992	0.907	0.875	0.845	0.749	0.723			0.896	13.75
25)		Endosulfan Su...	1.062	0.923	0.854	0.822	0.824	0.787	0.792	0.788	0.731		0.843	11.59
26)		Endrin Ketone	1.145	1.051	1.034	0.976	0.965	0.941	0.938	0.924	0.849		0.980	8.74
27)	s	Decachlorobip...	0.821	0.839	0.877	0.814	0.795	0.754	0.664	0.650	0.583		0.755	13.26
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1						0.038					0.038	0.00
30)	l1	chlordane-3						0.041					0.041	0.00
31)	l1	chlordane-4						0.127					0.127	0.00
32)	l1	chlordane-5						0.193					0.193	0.00

Method Path : I:\Pest15\200909ICAL\
Method File : P15_pest_09_09_20_ugL_ICAL.m
Title : pest
Last Update : Tue Sep 22 16:31:09 2020
Response Via : Initial Calibration

Calibration Files
1 =15200909i-05.d 2 =15200909i-21.d 3 =15200909i-07.d 4 =15200909i-08.d 5 =15200909i-09.d
6 =15200909i-10.d 7 =15200909i-30.d 8 =15200909i-23.d 9 =15200909i-13.d 10 =15200909i-14.d

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1	0.046						0.050	0.048			*L	0.9997
35)	l2	toxaphene-2	0.052						0.069	0.066			*L	0.9996
36)	l2	toxaphene-4	0.027						0.035	0.040			*L	0.9975
37)	l2	toxaphene-5	0.032						0.033	0.037			*L	0.9976

Signal #2 Calibration Files
1 =15200909i-05.d 2 =15200909i-35.d 3 =15200909i-07.d 4 =15200909i-08.d 5 =15200909i-09.d
6 =15200909i-10.d 7 =15200909i-30.d 8 =15200909i-23.d 9 =15200909i-13.d 10 =15200909i-14.d

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...	1.142	1.194	1.214	1.137	1.121	1.097	1.123	1.127	1.117		1.141	3.34
3)		Hexachloroben...	1.437	1.447	1.409	1.365	1.337	1.285	1.233	1.224	1.205		1.327	7.09
4)		alpha-BHC	1.279	1.322	1.324	1.311	1.316	1.352	1.539	1.607	1.626		1.409	9.93
5)		gamma-BHC (li...	1.365	1.294	1.292	1.284	1.259	1.243	1.262	1.390	1.435	1.443	1.327	5.65
6)		beta-BHC	0.852	0.762	0.739	0.730	0.713	0.676	0.659	0.655	0.643		0.714	9.29
7)		delta-BHC	1.333	1.263	1.258	1.227	1.214	1.245	1.398	1.456	1.474		1.319	7.64
8)		Heptachlor	1.380	1.436	1.435	1.335	1.298	1.300	1.368	1.397	1.364		1.368	3.71
9)		Aldrin	1.064	1.114	1.123	1.096	1.066	1.098	1.213	1.260	1.237		1.141	6.59

Response Factor Report Pest 15

Method Path : I:\Pest15\200909ICAL\
Method File : P15_pest_09_09_20_ugL_ICAL.m
Title : pest
Last Update : Tue Sep 22 16:31:09 2020
Response Via : Initial Calibration

Calibration Files
1 =15200909i-05.d 2 =15200909i-21.d 3 =15200909i-07.d 4 =15200909i-08.d 5 =15200909i-09.d
6 =15200909i-10.d 7 =15200909i-30.d 8 =15200909i-23.d 9 =15200909i-13.d 10 =15200909i-14.d

	Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
10)	Alachlor		0.217	0.219	0.227	0.222	0.212	0.209	0.185	0.175	0.154	0.202	12.35
11)	Chlorpyrifos		0.790	0.776	0.789	0.751	0.725	0.696	0.612	0.590		0.716	10.90
12)	Heptachlor Ep...		1.239	1.167	1.175	1.135	1.125	1.097	1.107	1.131	1.095	1.141	4.04
13)	gamma-Chlorda...			2.040	1.769	1.587	1.429	1.250	1.140	1.157	1.123	*L	0.999
7													
14)	alpha-Chlorda...		1.183	1.143	1.153	1.096	1.058	1.060	1.060	1.093	1.061	1.101	4.33
15)	4,4'-DDE		0.938	0.927	0.974	0.946	0.919	0.947	1.014	1.073	1.039	0.975	5.57
16)	Endosulfan I		1.000	0.992	1.009	0.970	0.937	0.944	0.961	0.992	0.959	0.974	2.61
17)	Dieldrin		0.983	0.992	0.996	0.961	0.927	0.949	0.999	1.043	1.022	0.986	3.66
18)	Endrin		1.015	0.971	1.014	0.976	0.920	0.946	0.989	1.032	1.004	0.985	3.65
19)	4,4'-DDD		0.748	0.722	0.770	0.735	0.698	0.738	0.771	0.811	0.782	0.753	4.55
20)	Endosulfan II		1.107	1.003	1.007	0.958	0.904	0.909	0.890	0.915	0.880	0.953	7.80
21)	4,4'-DDT		0.972	0.928	0.966	0.954	0.909	0.906	0.897	0.941	0.909	0.931	3.02
22)	Endrin Aldehyde		0.930	0.812	0.820	0.785	0.744	0.750	0.732	0.750	0.712	0.782	8.48
23)	Methoxychlor		0.577	0.544	0.575	0.548	0.512	0.514	0.467	0.467	0.430	0.515	9.99
24)	Mirex		0.930	0.898	0.911	0.845	0.792	0.759	0.636	0.630		0.800	14.83
25)	Endosulfan Su...		0.961	0.885	0.882	0.849	0.814	0.807	0.777	0.796	0.759	0.836	7.65

Method Path : I:\Pest15\200909ICAL\
Method File : P15_pest_09_09_20_ugL_ICAL.m
Title : pest
Last Update : Tue Sep 22 16:31:09 2020
Response Via : Initial Calibration

Calibration Files
1 =15200909i-05.d 2 =15200909i-21.d 3 =15200909i-07.d 4 =15200909i-08.d 5 =15200909i-09.d
6 =15200909i-10.d 7 =15200909i-30.d 8 =15200909i-23.d 9 =15200909i-13.d 10 =15200909i-14.d

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
26)		Endrin Ketone		1.128	1.007	1.008	0.953	0.914	0.942	0.926	0.931	0.894	0.967	7.40
27)	s	Decachlorobip...		0.863	0.869	0.898	0.839	0.781	0.762	0.656	0.652	0.598	0.769	14.29
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1							0.043				0.043	0.00
30)	l1	chlordane-3							0.041				0.041	0.00
31)	l1	chlordane-4							0.111				0.111	0.00
32)	l1	chlordane-5							0.109				0.109	0.00
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1		0.019					0.019	0.021			0.020	4.45
35)	l2	toxaphene-2		0.030					0.030	0.031			0.031	2.62
36)	l2	toxaphene-4		0.037					0.034	0.037			0.036	3.90
37)	l2	toxaphene-5		0.030					0.031	0.033			0.031	4.48

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Sep 2020 10:03 pm
Operator : PEST15:el
Sample : pem15200909i04,42ee,,deg std 9973 (Sig #1); deg std 9973 (Sig #2)
Misc : wg1413084,ical
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 17 10:30:16 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Sep 15 09:31:46 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.922	2.008	107.7E6	62363155	25.000	25.000
	System Monitoring Compounds						
	Target Compounds						
15)	4,4'-DDE	0.000	4.896	0	272182	N.D.	0.112M2
18)	Endrin	4.792	5.255	226.1E6	126.5E6	50.964	51.458
19)	4,4'-DDD	4.843	5.317	759314	563109	0.224M3	0.300M2
21)	4,4'-DDT	5.047	5.539	415.9E6	232.5E6	102.095	100.068
22)	Endrin Aldeh	5.260	5.638	483143	297241	0.143M2	0.152M2
26)	Endrin Keton	5.752	6.186	1647366	838996	0.390	0.348M2
	Sum chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

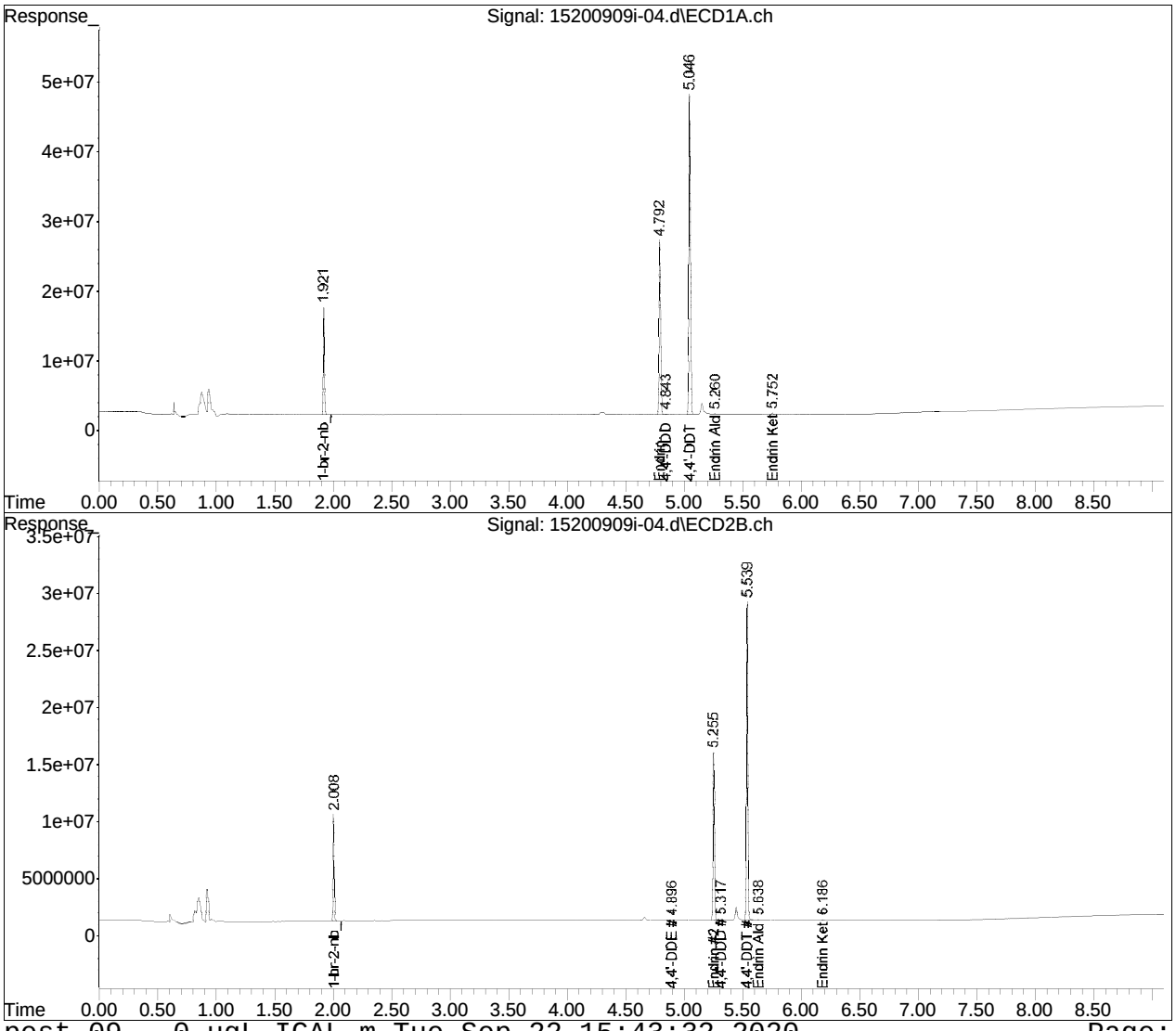
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Sep 2020 10:03 pm
Operator : PEST15:el
Sample : pem15200909i04,42ee,,deg std 9973 (Sig #1); deg std 9973 (Sig #2)
Misc : wg1413084,ical
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 17 10:30:16 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Sep 15 09:31:46 2020
Response via : Initial Calibration
Integrator: ChemStation

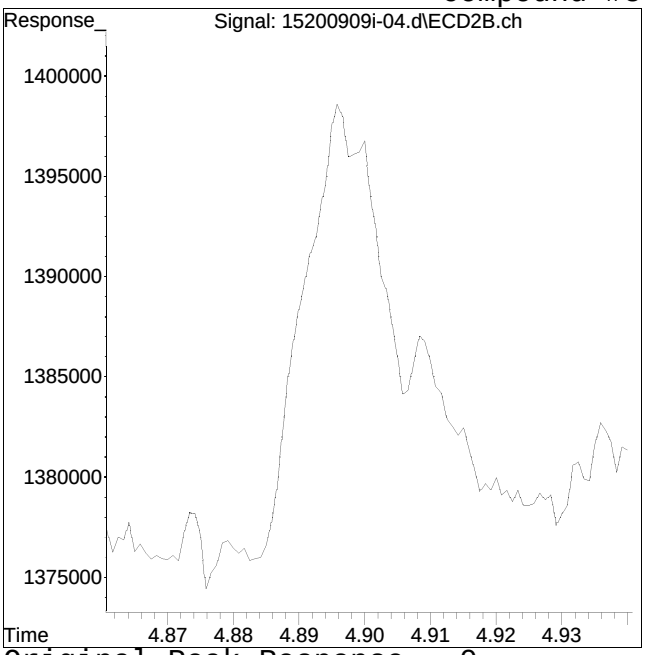
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



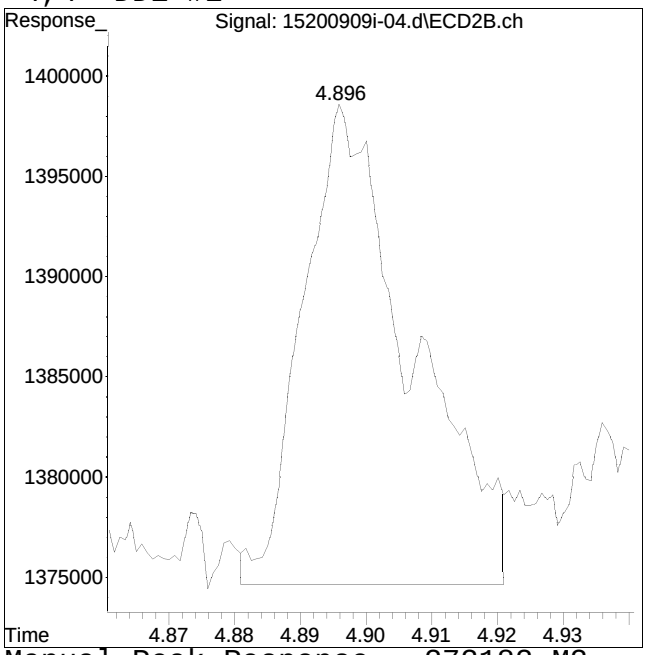
Manual Integration Report

Data Path : I:\Pest15\200909ICAL\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15200909i-04.d Operator : PEST15:el
Date Inj'd : 9/9/2020 10:03 pm Instrument : Pest 15
Sample : pem15200909i04,42ee,,deg sQuant Date : 9/17/2020 10:28 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 0



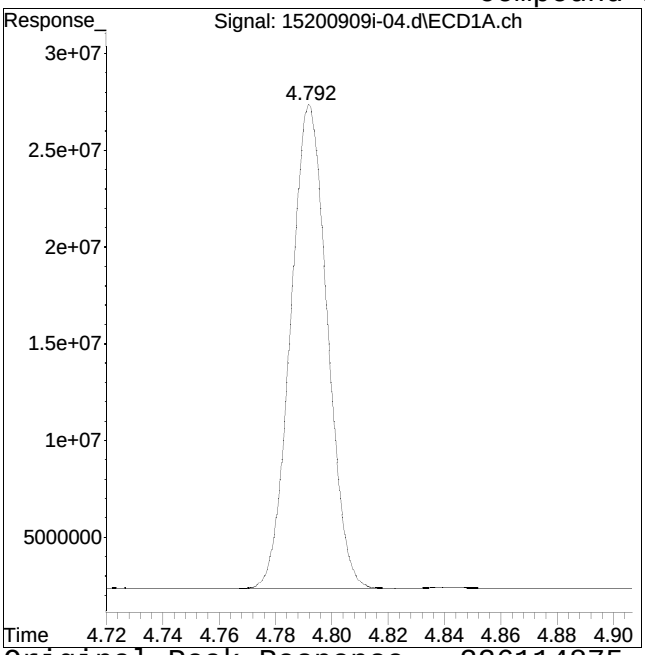
Manual Peak Response = 272182 M2

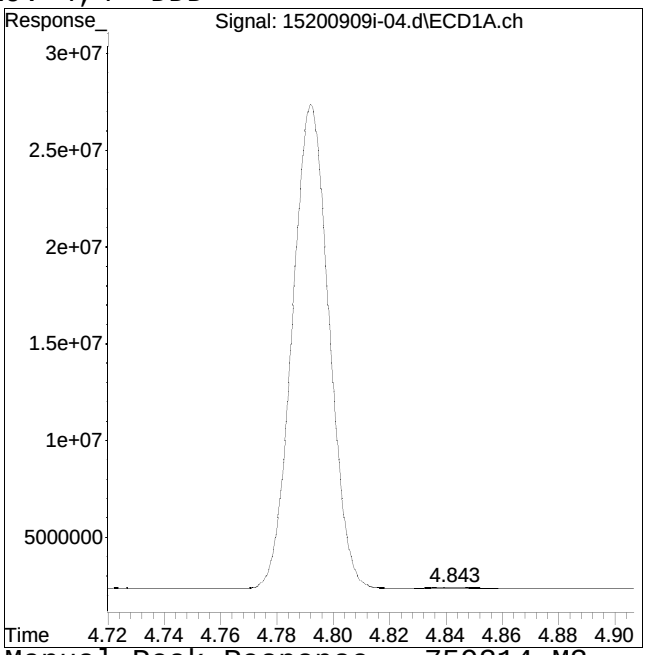
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest15\200909ICAL\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15200909i-04.d Operator : PEST15:el
Date Inj'd : 9/9/2020 10:03 pm Instrument : Pest 15
Sample : pem15200909i04,42ee,,deg sQuant Date : 9/17/2020 10:28 am

Compound #19: 4,4'-DDD



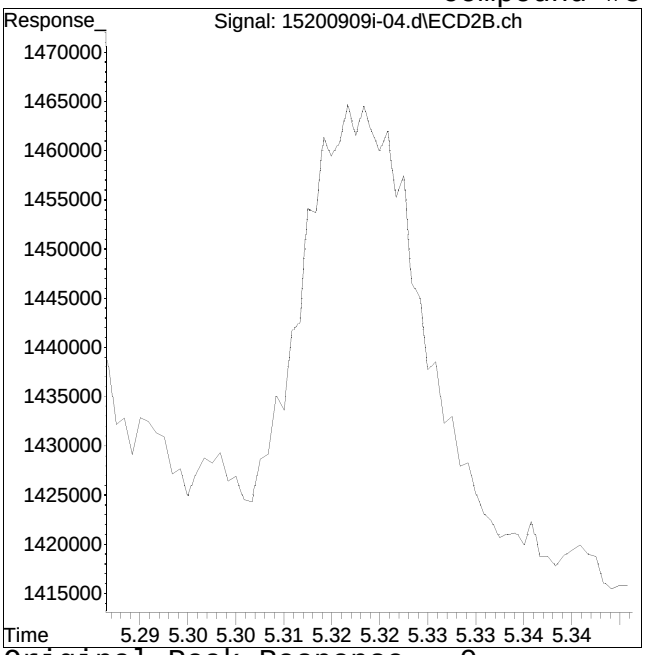


Original Peak Response = 226114875 Manual Peak Response = 759314 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

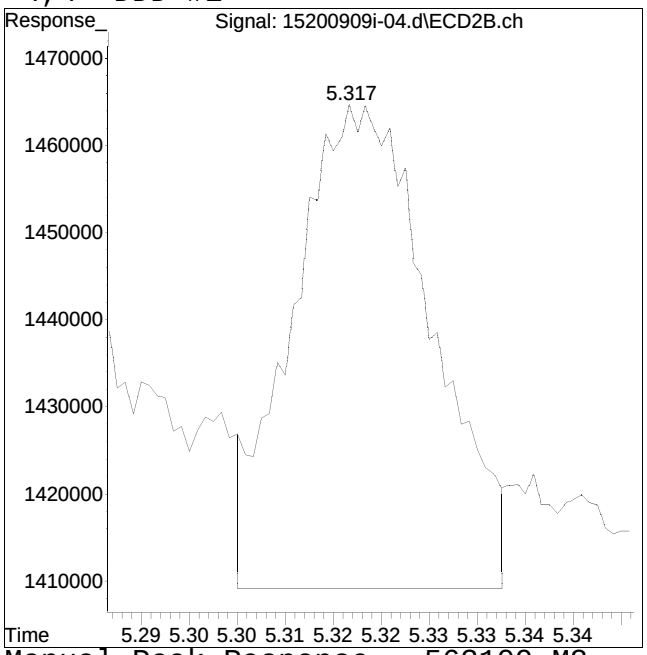
Manual Integration Report

Data Path : I:\Pest15\200909ICAL\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15200909i-04.d Operator : PEST15:el
Date Inj'd : 9/9/2020 10:03 pm Instrument : Pest 15
Sample : pem15200909i04,42ee,,deg sQuant Date : 9/17/2020 10:28 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 0



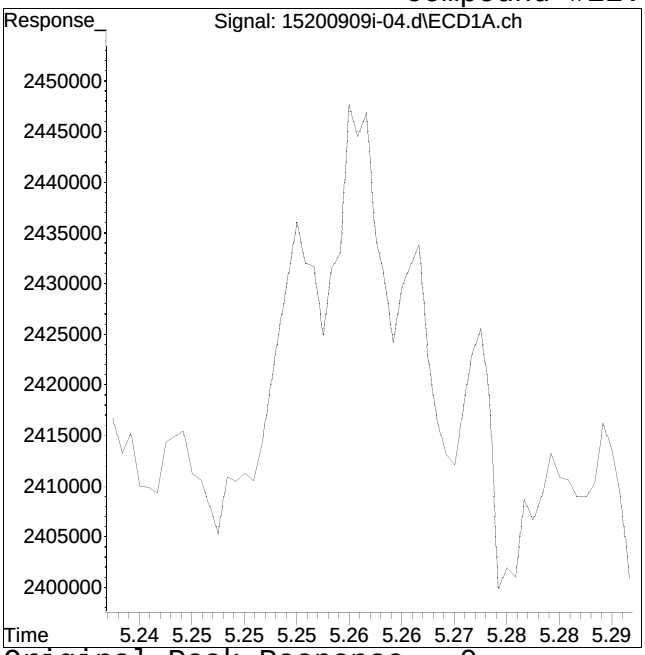
Manual Peak Response = 563109 M2

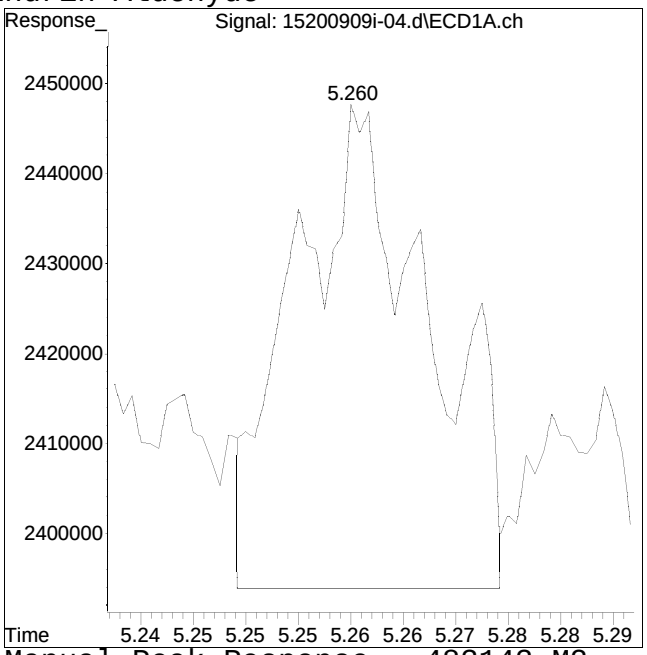
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest15\200909ICAL\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15200909i-04.d Operator : PEST15:el
Date Inj'd : 9/9/2020 10:03 pm Instrument : Pest 15
Sample : pem15200909i04,42ee,,deg sQuant Date : 9/17/2020 10:28 am

Compound #22: Endrin Aldehyde



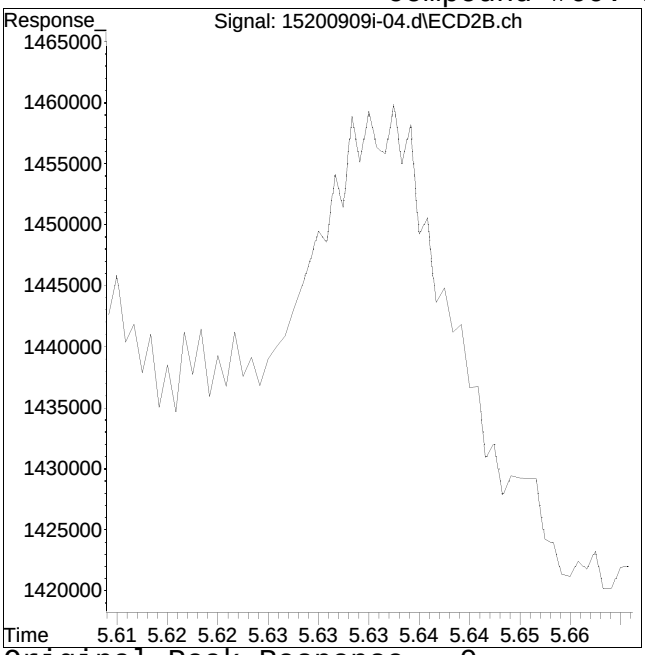


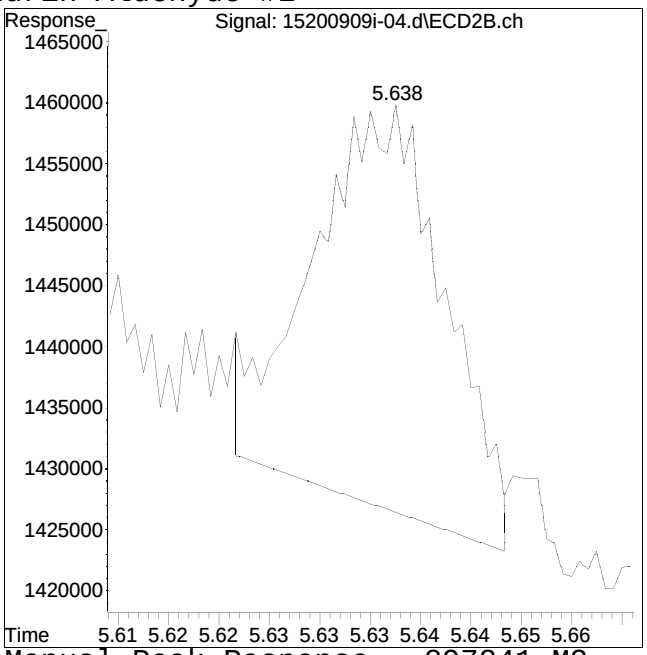
Original Peak Response = 0 Manual Peak Response = 483143 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest15\200909ICAL\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15200909i-04.d Operator : PEST15:el
Date Inj'd : 9/9/2020 10:03 pm Instrument : Pest 15
Sample : pem15200909i04,42ee,,deg sQuant Date : 9/17/2020 10:28 am

Compound #60: Endrin Aldehyde #2



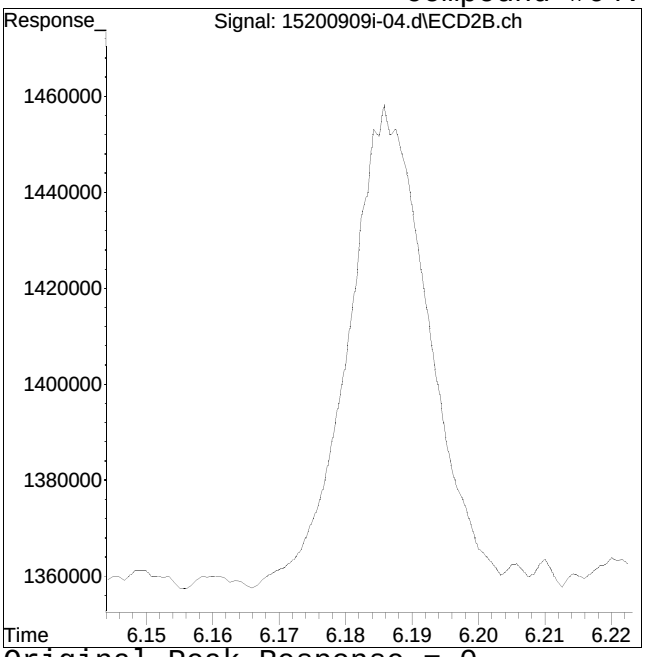


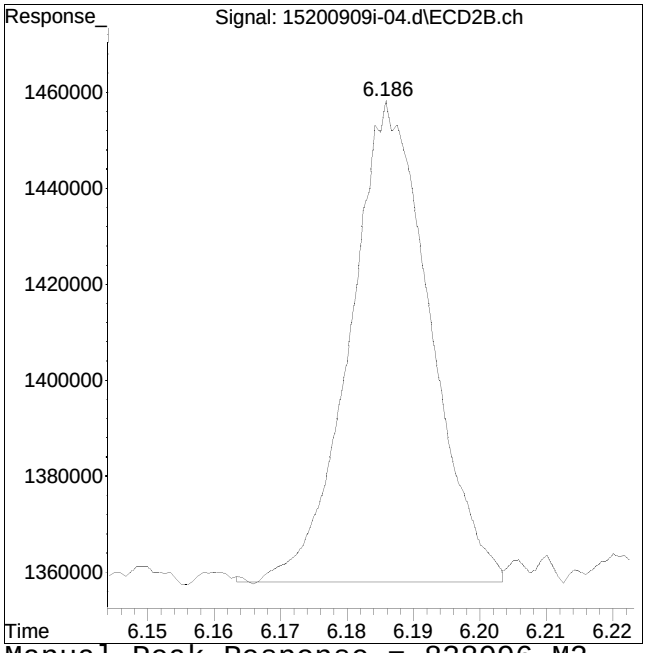
Original Peak Response = 0 Manual Peak Response = 297241 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest15\200909ICAL\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15200909i-04.d Operator : PEST15:el
Date Inj'd : 9/9/2020 10:03 pm Instrument : Pest 15
Sample : pem15200909i04,42ee,,deg sQuant Date : 9/17/2020 10:28 am

Compound #64: Endrin Ketone #2





Original Peak Response = 0 Manual Peak Response = 838996 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Sep 2020 10:16 pm
Operator : PEST15:el
Sample : il1pest,42e,,10032
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 08:10:57 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:10:26 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.921	2.008	103.4E6	61430303	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	3.024	3.383	2842352	1676828	0.557	0.516
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Sep 2020 10:16 pm
Operator : PEST15:el
Sample : il1pest,42e,,10032
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 08:10:57 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:10:26 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

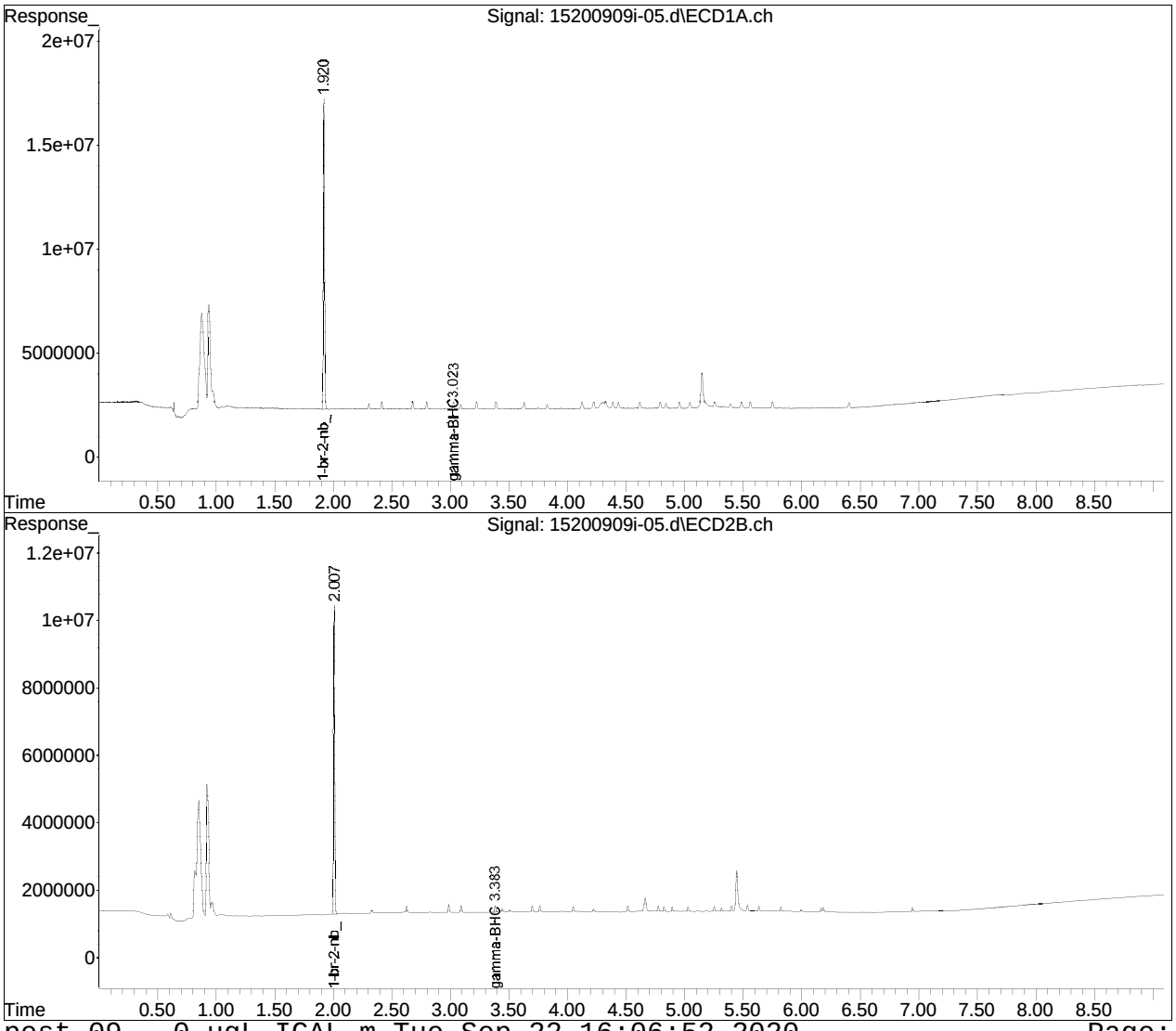
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Sep 2020 10:16 pm
Operator : PEST15:el
Sample : il1pest,42e,,10032
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 08:10:57 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:10:26 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest15\200909ICAL\	QMethod	: P15_pest_09_09_20_ugL_IC
Data File	: 15200909i-05.d	Operator	: PEST15:el
Date Inj'd	: 9/9/2020 10:16 pm	Instrument	: Pest 15
Sample	: il1pest,42e,,10032	Quant Date	: 9/10/2020 8:10 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Sep 2020 10:29 pm
Operator : PEST15:el
Sample : il2pest,42e,,10031
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 08:10:17 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:08:23 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.920	2.007	102.0E6	62145739	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.413	2.627	4875734	2838754	1.152	1.001
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.30%#	2.00%#
27) s	Decachlorobi	6.400	6.945	3350530	2144237	1.099	1.140
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.20%#	2.28%#
	Target Compounds						
3)	Hexachlorobe	2.677	2.987	5174309	3571871	1.046	1.094
4)	alpha-BHC	2.796	3.092	5167804	3178144	0.957	0.897
5)	gamma-BHC (l	3.023	3.383	4844339	3216693	0.958	0.976
6)	beta-BHC	3.086	3.445	3191772	2118487	1.233	1.222
7)	delta-BHC	3.221	3.700	5136580	3314588	1.027	1.012
8)	Heptachlor	3.386	3.764	5311251	3431241	1.034	1.010
9)	Aldrin	3.627	4.049	4098304	2643953	0.925	0.924
10)	Alachlor	3.745	3.941	761358	539505	1.060M2	1.082M2
11)	Chlorpyrifos	3.824	4.222	3270930	1963782	1.279	1.155
12)	Heptachlor E	4.121	4.516	4786428	3078824	1.069	1.097
13)	gamma-Chlord	4.220	4.664	5092772	7644516	1.130	2.140 D
14)	alpha-Chlord	4.324	4.776	4731829	2941774	1.024M4	1.085
15)	4,4'-DDE	4.384	4.894	3967267	2331844	0.949M4	0.957
16)	Endosulfan I	4.431	4.824	4332989	2484627	1.093	1.030
17)	Dieldrin	4.614	5.029	4284003	2444552	1.060	0.997
18)	Endrin	4.788	5.254	4491577	2522215	1.078	1.034
19)	4,4'-DDD	4.837	5.316	3457948	1860241	1.090	0.993
20)	Endosulfan I	4.953	5.402	4317046	2751621	1.111	1.186
21)	4,4'-DDT	5.041	5.537	4108240	2416322	1.074	1.050M4
22)	Endrin Aldeh	5.254	5.636	3733759	2312352	1.193	1.219

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Sep 2020 10:29 pm
Operator : PEST15:el
Sample : il2pest,42e,,10031
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 08:10:17 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:08:23 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	5.388	5.995	2394891	1434151	1.088	1.137
24)	Mirex	5.483	6.166	4355095	2312384	1.265	1.230
25)	Endosulfan S	5.558	5.823	4331528	2389860	1.302	1.171
26)	Endrin Keton	5.748	6.186	4671333	2802780	1.193	1.191
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

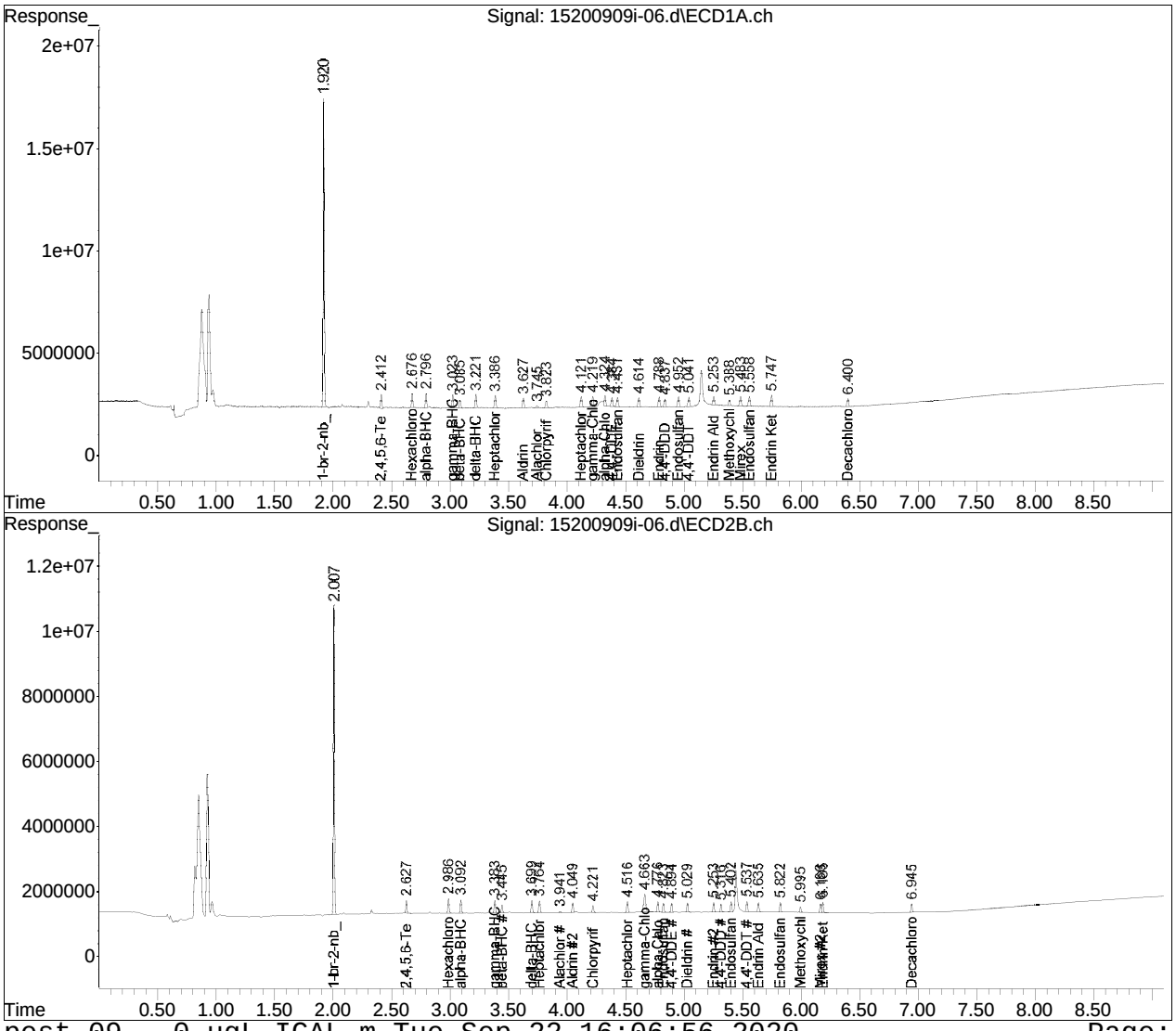
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Sep 2020 10:29 pm
Operator : PEST15:el
Sample : il2pest,42e,,10031
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 08:10:17 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:08:23 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

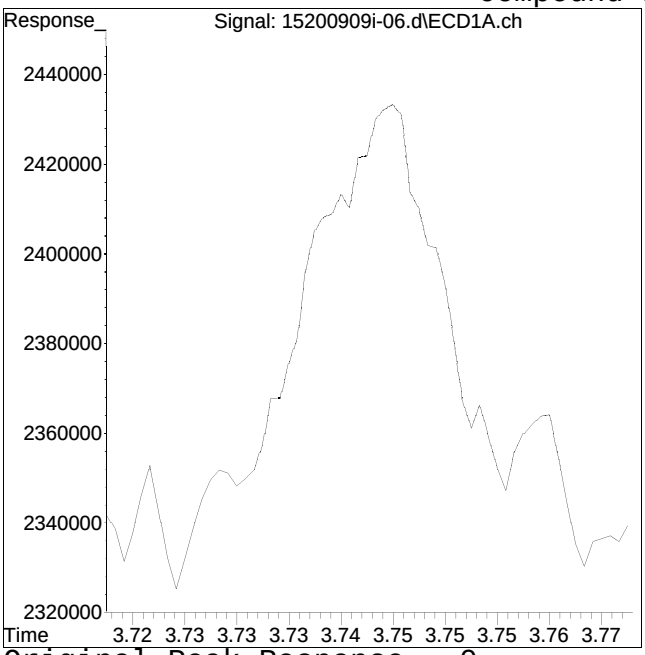


Manual Integration Report

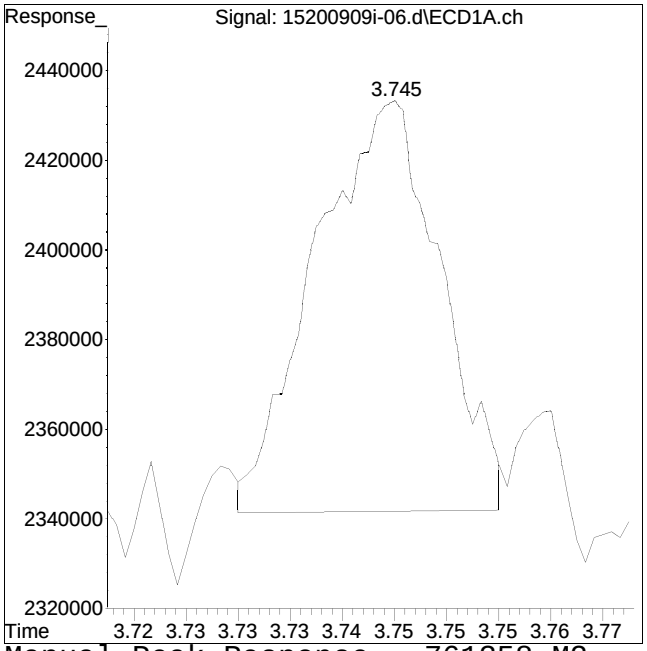
Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-06.d
Date Inj'd : 9/9/2020 10:29 pm
Sample : il2pest,42e,,10031

QMethod : P15_pest_09_09_20_ugL_IC
Operator : PEST15:el
Instrument : Pest 15
Quant Date : 9/10/2020 8:08 am

Compound #10: Alachlor



Original Peak Response = 0



Manual Peak Response = 761358 M2

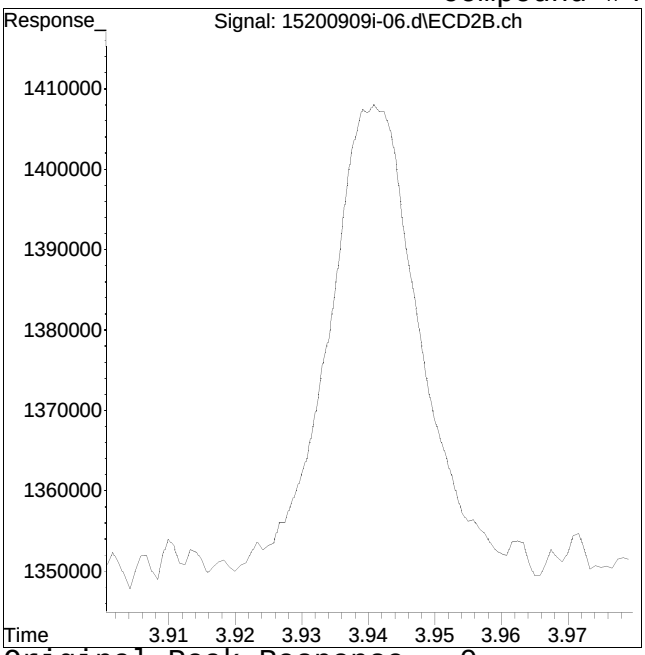
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

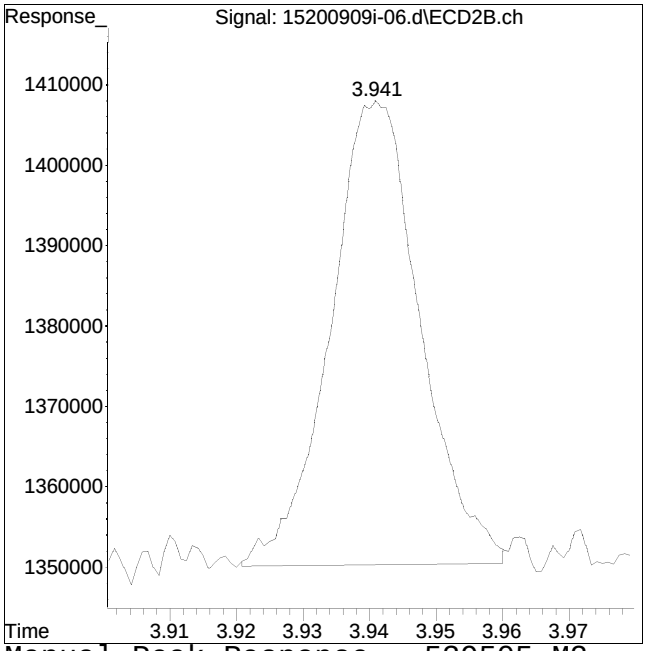
Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-06.d
Date Inj'd : 9/9/2020 10:29 pm
Sample : il2pest,42e,,10031

QMethod : P15_pest_09_09_20_ugL_IC
Operator : PEST15:el
Instrument : Pest 15
Quant Date : 9/10/2020 8:08 am

Compound #48: Alachlor #2



Original Peak Response = 0



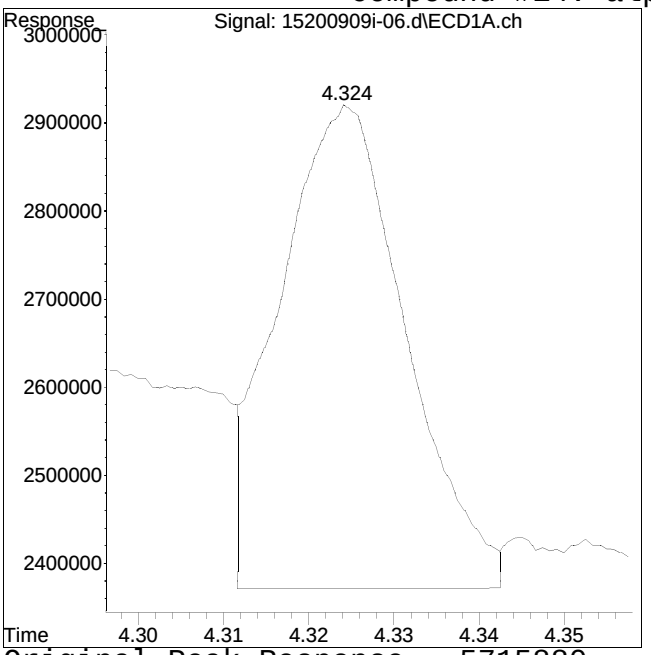
Manual Peak Response = 539505 M2

M2 = Peak not found by automatic integration algorithm.

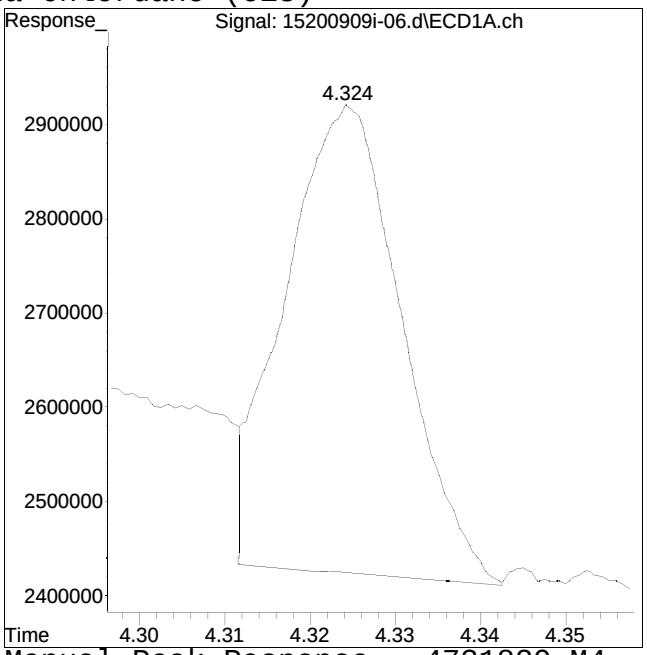
Manual Integration Report

Data Path	: I:\Pest15\200909ICAL\	QMethod	: P15_pest_09_09_20_ugL_IC
Data File	: 15200909i-06.d	Operator	: PEST15:el
Date Inj'd	: 9/9/2020 10:29 pm	Instrument	: Pest 15
Sample	: il2pest,42e,,10031	Quant Date	: 9/10/2020 8:08 am

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 5715880



Manual Peak Response = 4731829 M4

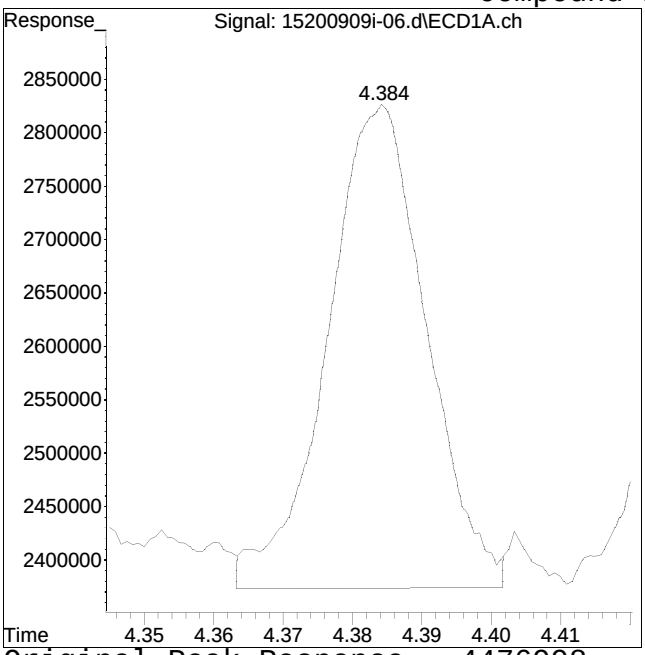
M4 = Poor automated baseline construction.

Manual Integration Report

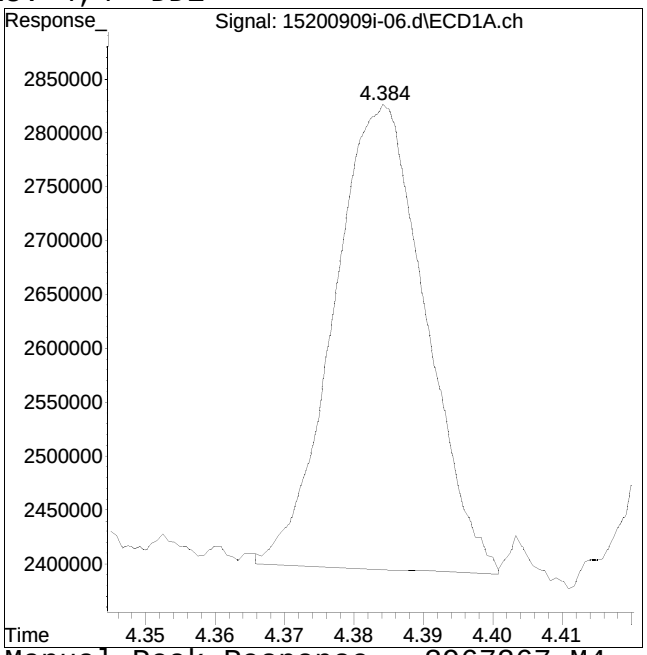
Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-06.d
Date Inj'd : 9/9/2020 10:29 pm
Sample : il2pest,42e,,10031

QMethod : P15_pest_09_09_20_ugL_IC
Operator : PEST15:el
Instrument : Pest 15
Quant Date : 9/10/2020 8:08 am

Compound #15: 4,4'-DDE



Original Peak Response = 4476998



Manual Peak Response = 3967267 M4

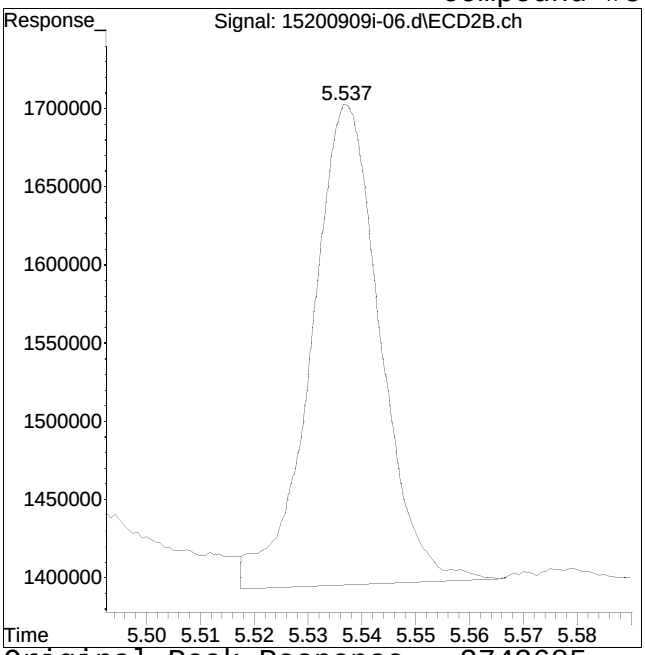
M4 = Poor automated baseline construction.

Manual Integration Report

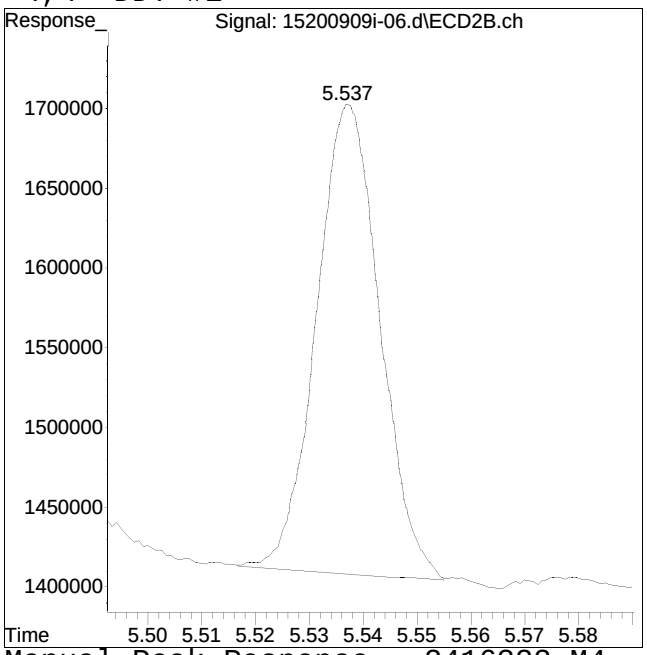
Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-06.d
Date Inj'd : 9/9/2020 10:29 pm
Sample : il2pest,42e,,10031

QMethod : P15_pest_09_09_20_ugL_IC
Operator : PEST15:el
Instrument : Pest 15
Quant Date : 9/10/2020 8:08 am

Compound #59: 4,4'-DDT #2



Original Peak Response = 2743685



Manual Peak Response = 2416322 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-07.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Sep 2020 10:41 pm
Operator : PEST15:el
Sample : il3pest,42e,,10030
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 08:21:16 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:21:13 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.919	2.007	102.9E6	61161103	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.412	2.627	8811924	5841001	2.029	2.092
	Spiked Amount 50.000	Range 30 - 150		Recovery =		4.06%#	4.18%#
27) s	Decachlorobi	6.399	6.943	6906684	4253236	2.221	2.262
	Spiked Amount 50.000	Range 30 - 150		Recovery =		4.44%#	4.52%#
	Target Compounds						
3)	Hexachlorobe	2.676	2.987	10939369	7079844	2.181	2.181
4)	alpha-BHC	2.794	3.092	11019924	6470606	2.031	1.878
5)	gamma-BHC (l	3.023	3.383	9945673	6321045	1.936	1.947
6)	beta-BHC	3.085	3.445	5504946	3728648	2.054	2.133
7)	delta-BHC	3.220	3.699	9654571	6181194	1.908	1.916
8)	Heptachlor	3.386	3.764	10983570	7025483	2.111	2.099
9)	Aldrin	3.625	4.049	9167514	5453032	2.068	1.953
10)	Alachlor	3.740	3.940	1628480	1072540	2.233M1	2.166
11)	Chlorpyrifos	3.823	4.222	5798333	3794983	2.102	2.167
12)	Heptachlor E	4.121	4.515	9832083	5708329	2.159	2.045
13)	gamma-Chlord	4.219	4.663	9599722	9979889	2.110	2.042
14)	alpha-Chlord	4.322	4.775	10274105	5594489	2.198M4	2.077
15)	4,4'-DDE	4.384	4.893	8635009	4536752	2.058	1.901
16)	Endosulfan I	4.429	4.823	8288903	4854173	2.051	2.038
17)	Dieldrin	4.613	5.028	8127843	4852159	1.980	2.012
18)	Endrin	4.787	5.252	8961413	4753018	2.114	1.972
19)	4,4'-DDD	4.836	5.315	5934963	3531411	1.835	1.918
20)	Endosulfan I	4.952	5.401	7994137	4907992	2.014	2.106
21)	4,4'-DDT	5.041	5.536	7815896	4540073	2.008	1.993M4
22)	Endrin Aldeh	5.254	5.634	6794727	3973141	2.106	2.078
23)	Methoxychlor	5.388	5.994	4902446	2662024	2.186	2.113

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-07.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Sep 2020 10:41 pm
Operator : PEST15:el
Sample : il3pest,42e,,10030
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 08:21:16 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:21:13 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	5.482	6.165	8310620	4394764	2.252	2.245
25)	Endosulfan S	5.557	5.822	7602365	4327929	2.191	2.115
26)	Endrin Keton	5.746	6.184	8652690	4926750	2.143	2.083
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

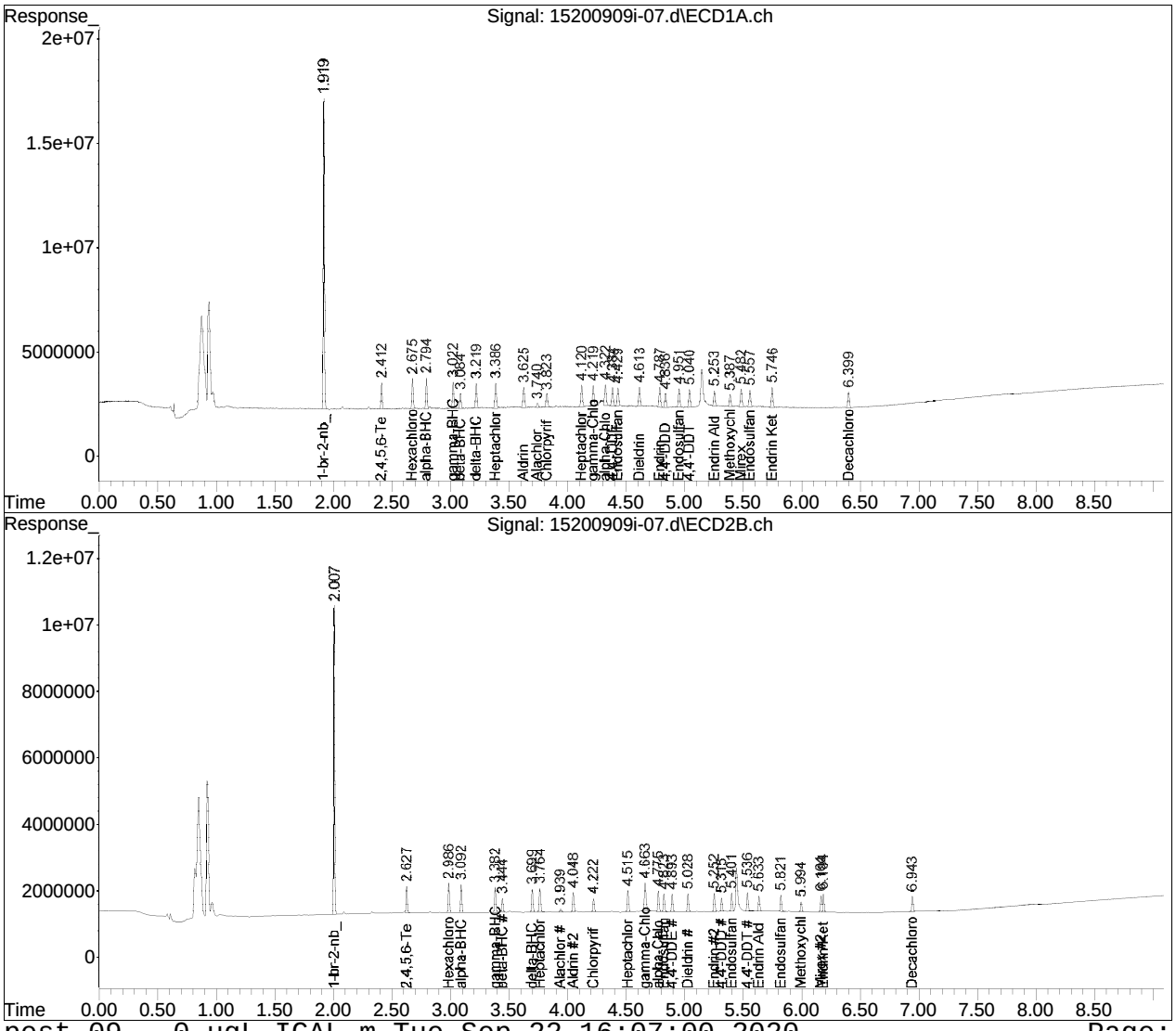
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-07.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Sep 2020 10:41 pm
Operator : PEST15:el
Sample : il3pest,42e,,10030
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 08:21:16 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:21:13 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

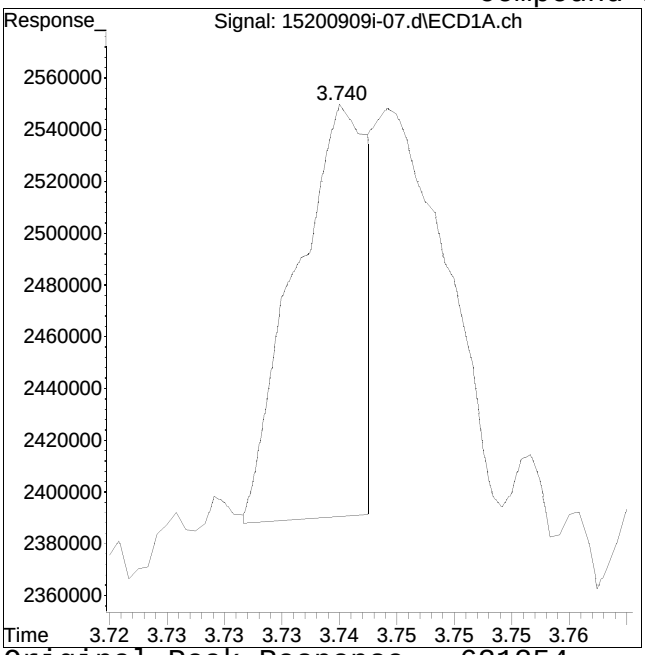


Manual Integration Report

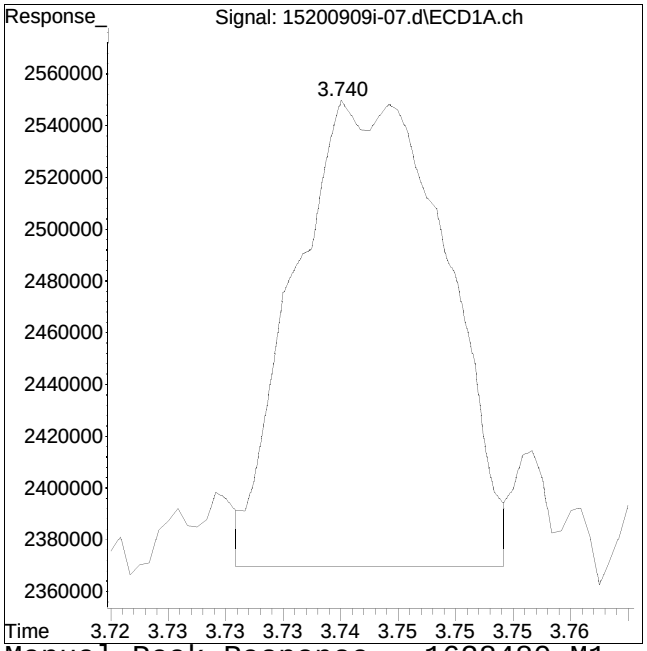
Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-07.d
Date Inj'd : 9/9/2020 10:41 pm
Sample : il3pest,42e,,10030

QMethod : P15_pest_09_09_20_ugL_IC
Operator : PEST15:el
Instrument : Pest 15
Quant Date : 9/10/2020 8:21 am

Compound #10: Alachlor



Original Peak Response = 621254



Manual Peak Response = 1628480 M1

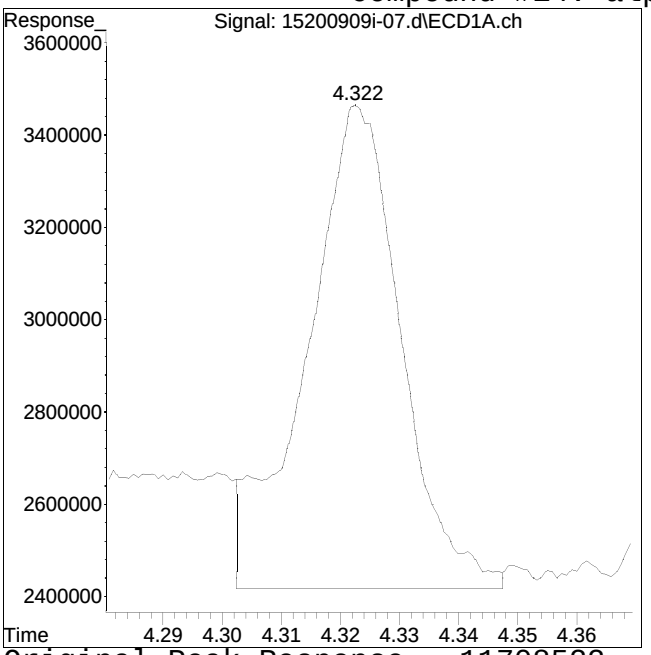
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

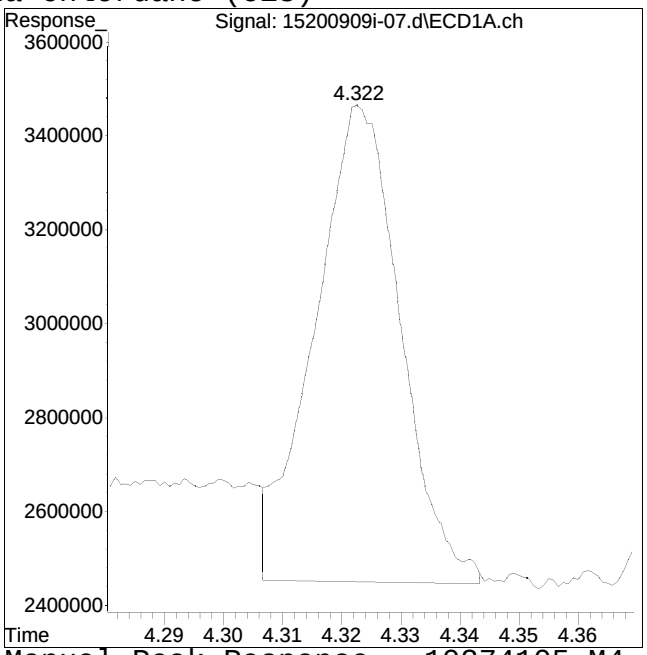
Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-07.d
Date Inj'd : 9/9/2020 10:41 pm
Sample : il3pest,42e,,10030

QMethod : P15_pest_09_09_20_ugL_IC
Operator : PEST15:el
Instrument : Pest 15
Quant Date : 9/10/2020 8:21 am

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 11708522



Manual Peak Response = 10274105 M4

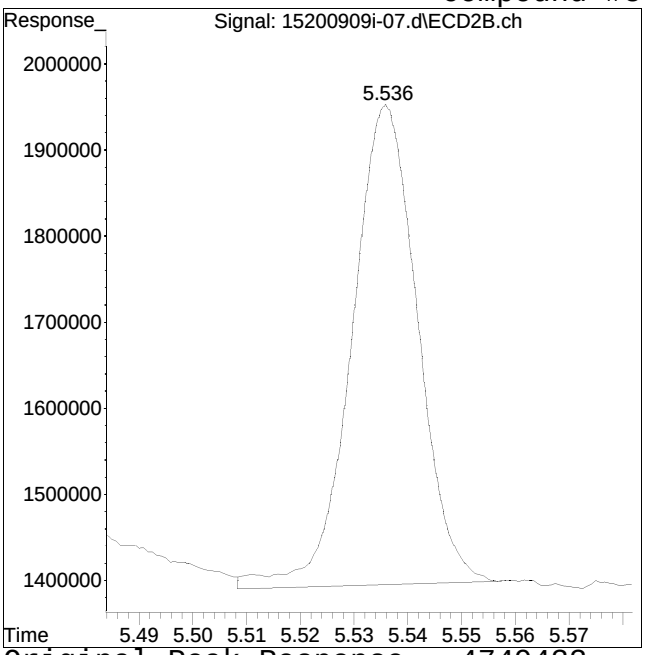
M4 = Poor automated baseline construction.

Manual Integration Report

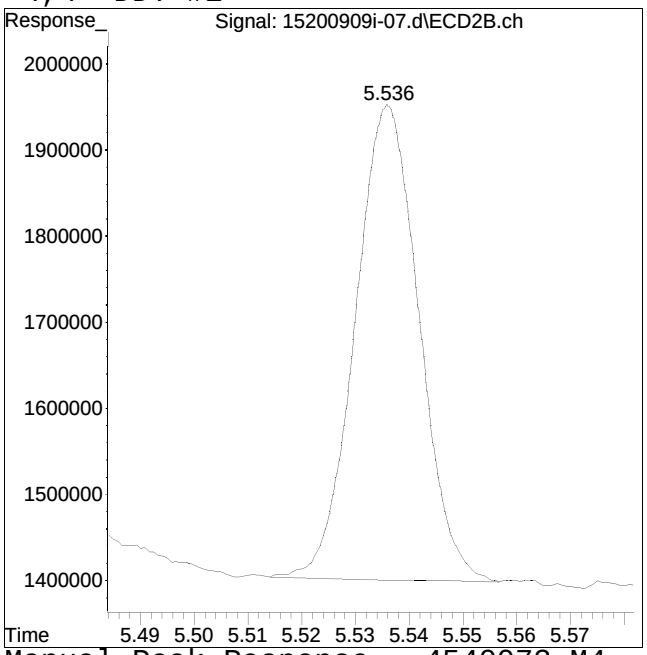
Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-07.d
Date Inj'd : 9/9/2020 10:41 pm
Sample : il3pest,42e,,10030

QMethod : P15_pest_09_09_20_ugL_IC
Operator : PEST15:el
Instrument : Pest 15
Quant Date : 9/10/2020 8:21 am

Compound #59: 4,4'-DDT #2



Original Peak Response = 4749433



Manual Peak Response = 4540073 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-08.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Sep 2020 10:55 pm
Operator : PEST15:el
Sample : il4pest,42e,,10029
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 08:06:21 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:05:22 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.920	2.007	104.7E6	63920715	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.412	2.627	13596737	9314568	3.169	3.252
	Spiked Amount 50.000	Range 30 - 150		Recovery =		6.34%#	6.50%#
27) s	Decachlorobi	6.400	6.944	11015379	6887454	3.704	3.770
	Spiked Amount 50.000	Range 30 - 150		Recovery =		7.41%#	7.54%#
	Target Compounds						
3)	Hexachlorobe	2.676	2.986	16667775	10805034	3.390	3.315
4)	alpha-BHC	2.795	3.092	16302930	10158906	2.935	2.724
5)	gamma-BHC (l	3.023	3.382	15896271	9848222	3.060	2.877
6)	beta-BHC	3.085	3.444	8393043	5667588	3.214	3.263
7)	delta-BHC	3.220	3.699	15624595	9651904	3.029	2.826
8)	Heptachlor	3.386	3.763	16590579	11005670	3.204	3.203
9)	Aldrin	3.626	4.049	13663117	8610243	3.017	2.899
10)	Alachlor	3.743	3.940	2301834	1741667	3.211	3.529
11)	Chlorpyrifos	3.823	4.222	9182553	6048456	3.673	3.633
12)	Heptachlor E	4.121	4.516	14734504	9014683	3.291	3.163
13)	gamma-Chlord	4.219	4.663	14999849	13566675	3.316	4.142
14)	alpha-Chlord	4.324	4.776	16160802	8841339	3.548	3.228
15)	4,4'-DDE	4.384	4.893	12969096	7473035	3.036	2.953
16)	Endosulfan I	4.430	4.823	12766972	7738421	3.180	3.151
17)	Dieldrin	4.614	5.029	12880568	7642573	3.121	3.039
18)	Endrin	4.787	5.253	13293413	7776688	3.163	3.110
19)	4,4'-DDD	4.836	5.316	9983167	5904162	3.039	3.055
20)	Endosulfan I	4.952	5.402	13340192	7727832	3.420	3.323
21)	4,4'-DDT	5.041	5.536	12319208	7409927	3.167	3.153M4
22)	Endrin Aldeh	5.253	5.635	10106985	6290470	3.211	3.300
23)	Methoxychlor	5.388	5.994	7866877	4411837	3.643	3.523

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-08.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Sep 2020 10:55 pm
Operator : PEST15:el
Sample : il4pest,42e,,10029
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 08:06:21 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:05:22 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	5.483	6.165	12472785	6985172	3.764	3.866
25)	Endosulfan S	5.557	5.822	10736712	6765817	3.241	3.308
26)	Endrin Keton	5.747	6.184	12990108	7729850	3.326	3.263
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

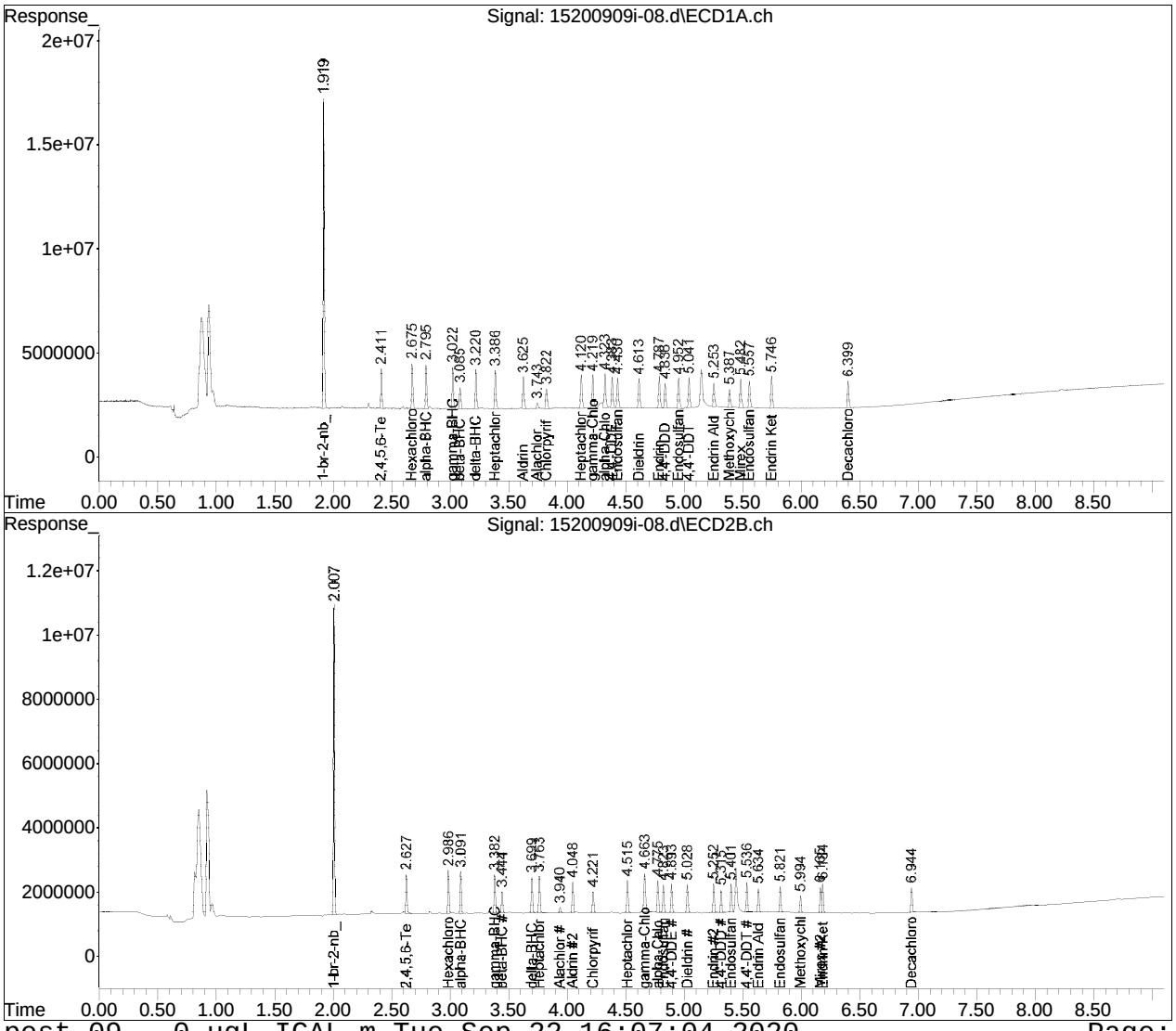
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-08.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Sep 2020 10:55 pm
Operator : PEST15:el
Sample : il4pest,42e,,10029
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 08:06:21 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:05:22 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

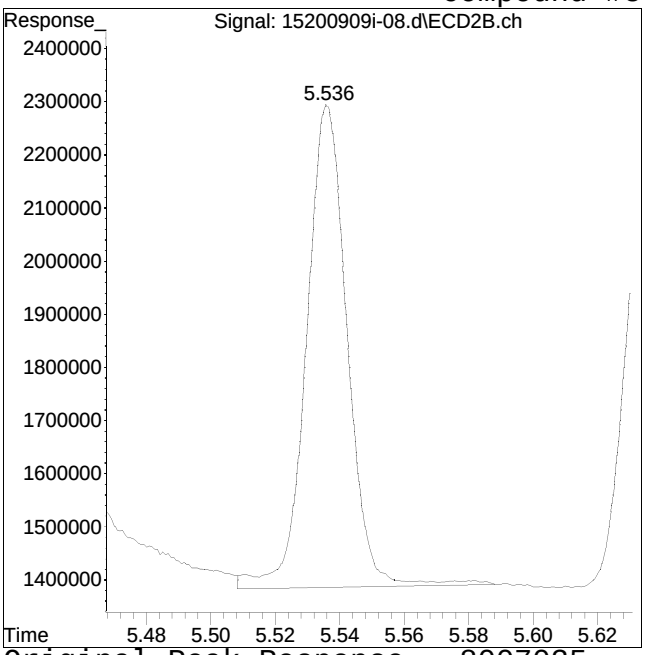


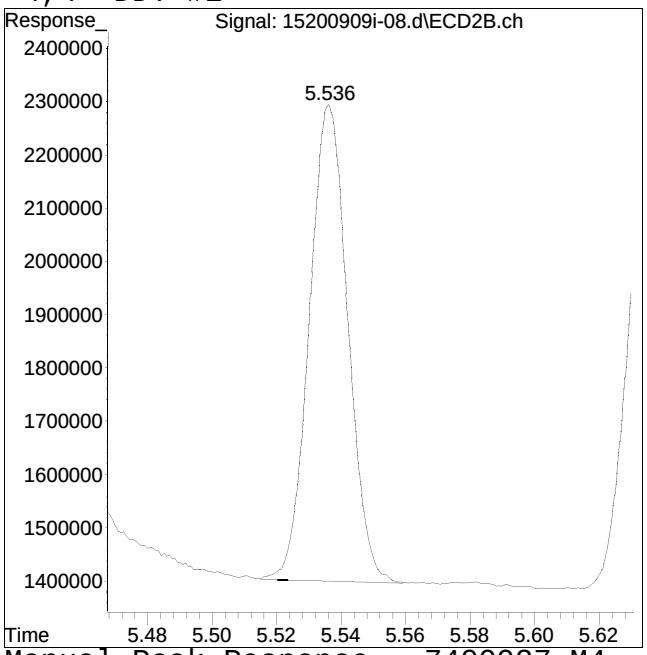
Manual Integration Report

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-08.d
Date Inj'd : 9/9/2020 10:55 pm
Sample : il4pest,42e,,10029

QMethod : P15_pest_09_09_20_ugL_IC
Operator : PEST15:el
Instrument : Pest 15
Quant Date : 9/10/2020 8:05 am

Compound #59: 4,4'-DDT #2





Original Peak Response = 8007035 Manual Peak Response = 7409927 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Sep 2020 11:07 pm
Operator : PEST15:el
Sample : il5pest,42e,,10028
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 08:05:10 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:04:16 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.920	2.007	103.1E6	61928999	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.412	2.627	17580744	11264229	4.196	4.071
	Spiked Amount 50.000	Range 30 - 150		Recovery =		8.39%#	8.14%#
27) s	Decachlorobi	6.398	6.944	13429632	8315412	4.725	4.867
	Spiked Amount 50.000	Range 30 - 150		Recovery =		9.45%#	9.73%#
	Target Compounds						
3)	Hexachlorobe	2.676	2.987	21104975	13527614	4.440	4.345
4)	alpha-BHC	2.794	3.092	20789427	12987721	3.764	3.523
5)	gamma-BHC (l	3.022	3.382	19912948	12476499	3.872	3.718
6)	beta-BHC	3.084	3.444	11022281	7236127	4.349	4.365
7)	delta-BHC	3.220	3.699	19153982	12160505	3.729	3.616
8)	Heptachlor	3.386	3.764	20507472	13232122	4.027	3.970
9)	Aldrin	3.626	4.049	17170957	10859451	3.823	3.731
10)	Alachlor	3.742	3.941	2971835	2201886	4.255	4.749
11)	Chlorpyrifos	3.822	4.222	11158547	7438566	4.657	4.757
12)	Heptachlor E	4.120	4.515	18200143	11242845	4.155	4.086M4
13)	gamma-Chlord	4.219	4.663	17931489	15729139	4.031	5.205
14)	alpha-Chlord	4.323	4.775	18685341	10859019	4.201	4.111
15)	4,4'-DDE	4.383	4.893	15916202	9370112	3.743	3.789
16)	Endosulfan I	4.430	4.823	15959902	9610777	4.045	4.047
17)	Dieldrin	4.613	5.028	15817197	9524209	3.872	3.891
18)	Endrin	4.787	5.253	16327994	9669442	3.934	3.990
19)	4,4'-DDD	4.836	5.316	12368044	7280056	3.790	3.867
20)	Endosulfan I	4.952	5.401	15875460	9495233	4.161	4.260
21)	4,4'-DDT	5.040	5.537	15456688	9451211	4.043	4.182
22)	Endrin Aldeh	5.253	5.634	12673386	7774346	4.108	4.255
23)	Methoxychlor	5.386	5.994	9260228	5430954	4.433	4.586

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Sep 2020 11:07 pm
Operator : PEST15:el
Sample : il5pest,42e,,10028
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 08:05:10 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:04:16 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	5.482	6.165	14966415	8370839	4.726	4.977
25)	Endosulfan S	5.556	5.822	13555730	8407573	4.189	4.294
26)	Endrin Keton	5.746	6.184	16109161	9440652	4.228	4.137
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

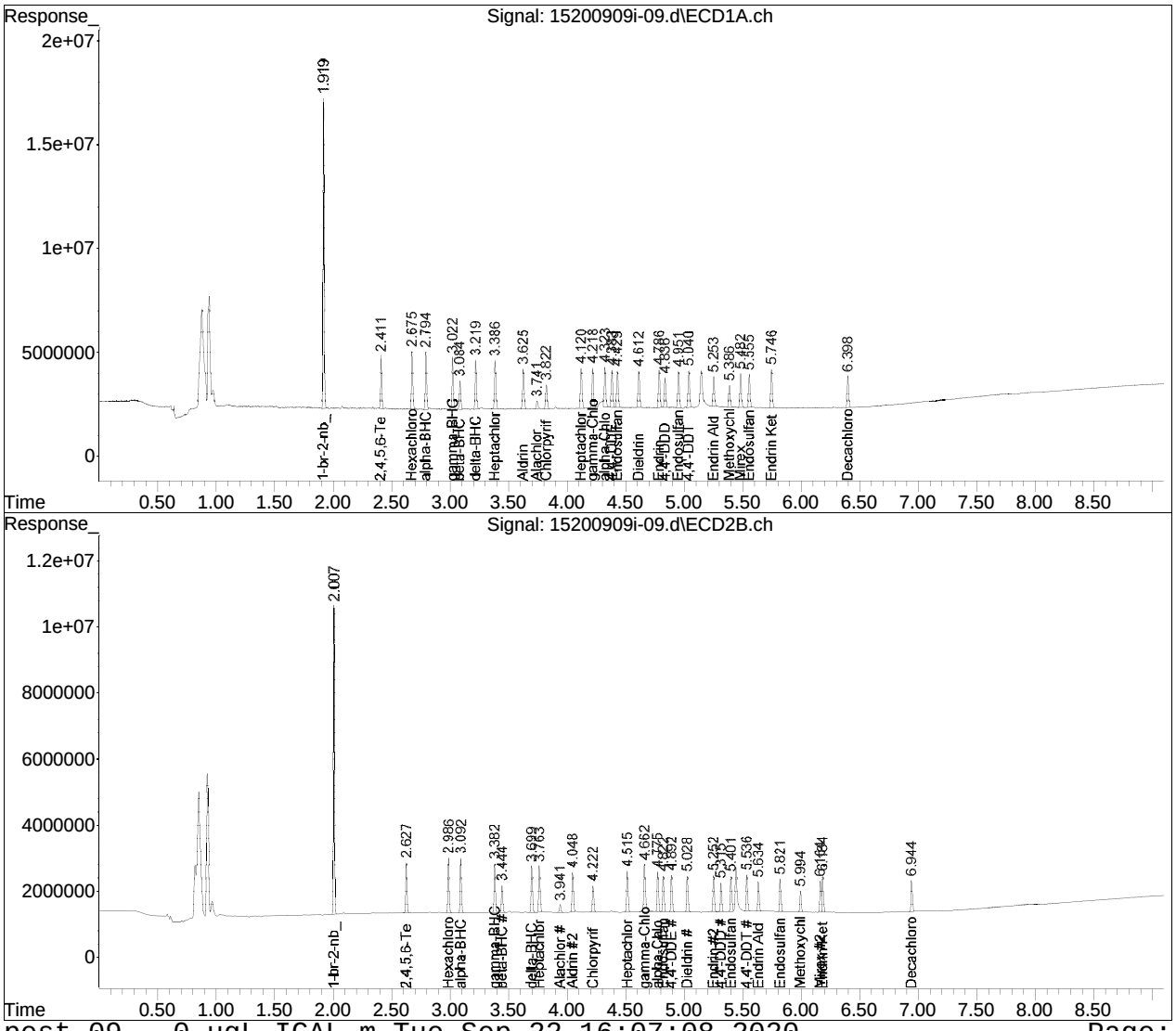
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Sep 2020 11:07 pm
Operator : PEST15:el
Sample : il5pest,42e,,10028
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 08:05:10 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:04:16 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

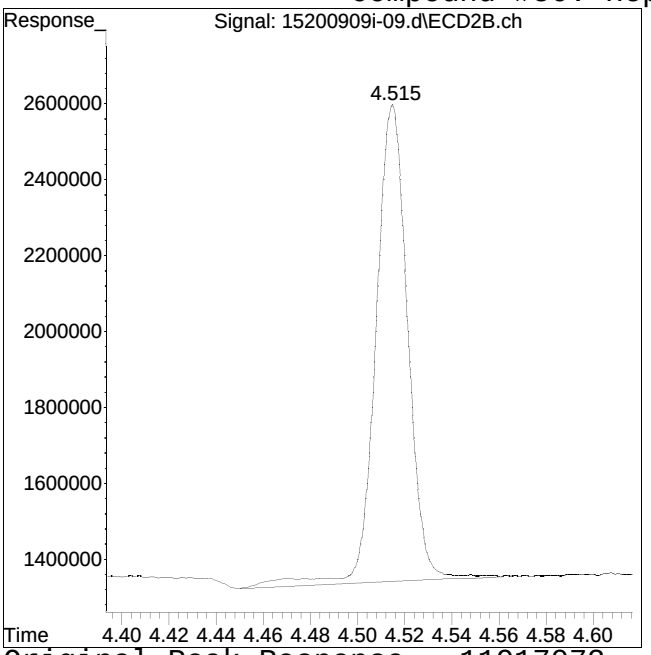


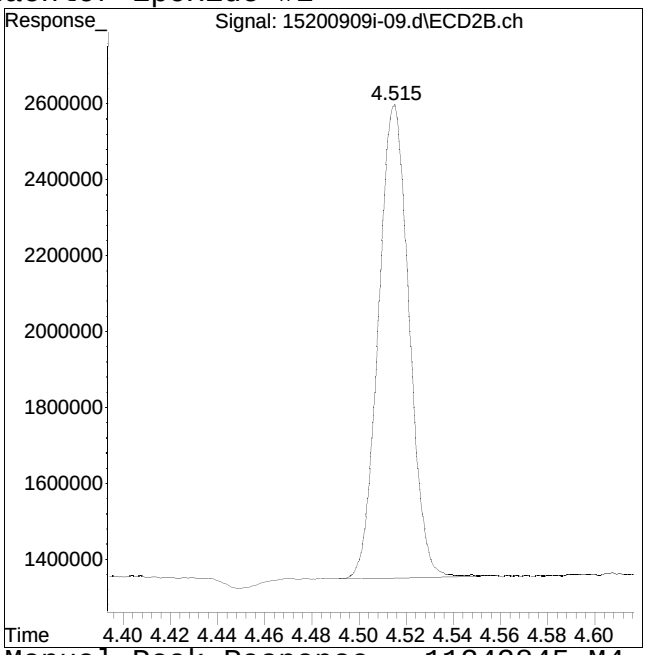
Manual Integration Report

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-09.d
Date Inj'd : 9/9/2020 11:07 pm
Sample : il5pest,42e,,10028

QMethod : P15_pest_09_09_20_ugL_IC
Operator : PEST15:el
Instrument : Pest 15
Quant Date : 9/10/2020 8:04 am

Compound #50: Heptachlor Epoxide #2





Original Peak Response = 11917072 Manual Peak Response = 11242845 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-10.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Sep 2020 11:20 pm
Operator : PEST15:el
Sample : il6pest,42e,,10027
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 08:04:07 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:02:40 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.920	2.008	98974344	61436492	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.412	2.628	20986934	13774878	5.276	5.022
	Spiked Amount 50.000	Range 30 - 150		Recovery =		10.55%#	10.04%#
27) s	Decachlorobi	6.398	6.944	15735625	9591335	5.998	5.852
	Spiked Amount 50.000	Range 30 - 150		Recovery =		12.00%#	11.70%#
	Target Compounds						
3)	Hexachlorobe	2.676	2.987	24862609	16426375	5.575	5.405
4)	alpha-BHC	2.795	3.092	25196609	16172601	4.695	4.298
5)	gamma-BHC (l	3.022	3.383	24047471	15274473	4.841	4.496
6)	beta-BHC	3.084	3.445	13260720	8754716	5.578	5.411
7)	delta-BHC	3.220	3.700	23325754	14912671	4.668	4.355
8)	Heptachlor	3.385	3.764	25249767	15950139	5.209	4.782
9)	Aldrin	3.626	4.049	21093672	13101856	4.867	4.435
10)	Alachlor	3.742	3.940	3801932	2606736	5.868	5.863
11)	Chlorpyrifos	3.822	4.223	13772129	8909742	6.299	5.965
12)	Heptachlor E	4.120	4.516	22159737	13821701	5.343	5.080
13)	gamma-Chlord	4.219	4.663	21361157	17556050	5.003	6.119
14)	alpha-Chlord	4.324	4.776	22581191	12997925	5.367	4.950
15)	4,4'-DDE	4.383	4.893	19225526	11289346	4.644	4.511
16)	Endosulfan I	4.430	4.823	19359133	11515375	5.141	4.861
17)	Dieldrin	4.613	5.029	19420928	11392440	4.942	4.620
18)	Endrin	4.787	5.253	20016967	11301706	5.032	4.632
19)	4,4'-DDD	4.836	5.316	15368480	8576320	4.884	4.500
20)	Endosulfan I	4.952	5.402	19164027	11110847	5.295	5.031
21)	4,4'-DDT	5.040	5.537	17816135	11163296	4.820	4.974
22)	Endrin Aldeh	5.253	5.635	14760060	9136627	4.981	5.050
23)	Methoxychlor	5.387	5.995	10875036	6292674	5.542	5.453

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-10.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Sep 2020 11:20 pm
Operator : PEST15:el
Sample : il6pest,42e,,10027
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 08:04:07 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:02:40 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	5.482	6.165	17328547	9735496	5.908	6.089
25)	Endosulfan S	5.556	5.822	16314654	9996957	5.320	5.185
26)	Endrin Keton	5.746	6.185	19104679	11236412	5.284	4.954
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

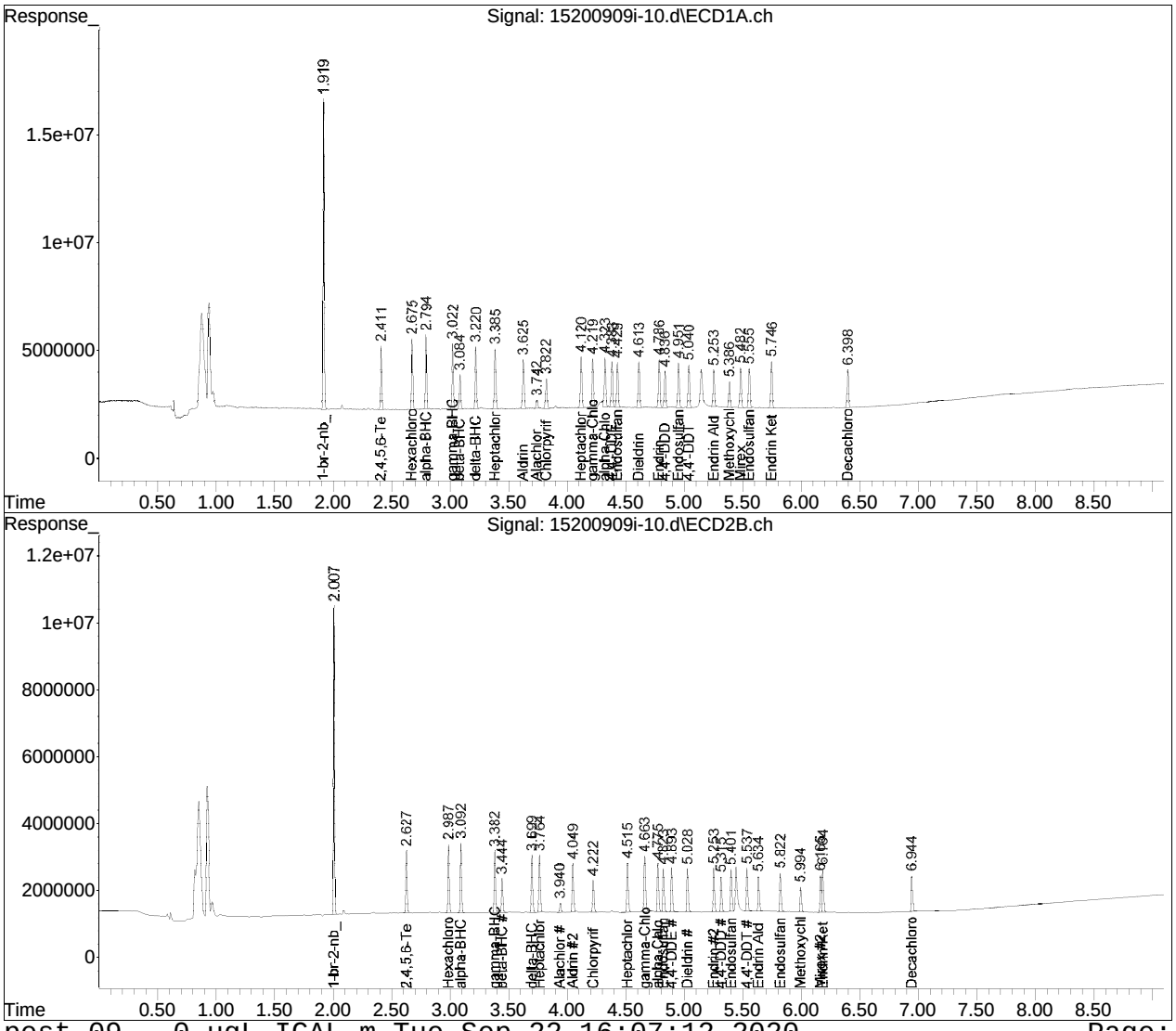
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-10.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Sep 2020 11:20 pm
Operator : PEST15:el
Sample : il6pest,42e,,10027
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 08:04:07 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:02:40 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest15\200909ICAL\	QMethod	: P15_pest_09_09_20_ugL_IC
Data File	: 15200909i-10.d	Operator	: PEST15:el
Date Inj'd	: 9/9/2020 11:20 pm	Instrument	: Pest 15
Sample	: il6pest,42e,,10027	Quant Date	: 9/10/2020 8:02 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Sep 2020 11:33 pm
Operator : PEST15:el
Sample : il7pest,42e,,10026
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 08:02:24 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:01:24 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.920	2.008	105.9E6	62849476	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.412	2.627	43827583	27578196	10.398	9.773
	Spiked Amount 50.000	Range 30 - 150		Recovery =		20.80%#	19.55%#
27) s	Decachlorobi	6.398	6.944	31938977	19168806	11.922	12.006
	Spiked Amount 50.000	Range 30 - 150		Recovery =		23.84%#	24.01%#
	Target Compounds						
3)	Hexachlorobe	2.676	2.987	52512765	32314752	11.381	10.531
4)	alpha-BHC	2.794	3.092	54672460	33987722	9.369	8.498
5)	gamma-BHC (l	3.022	3.382	52082592	31730963	9.731	8.872
6)	beta-BHC	3.084	3.444	26642438	16998719	10.637	10.363
7)	delta-BHC	3.220	3.699	51172995	31293592	9.433	8.627
8)	Heptachlor	3.385	3.764	53364115	32678365	10.385	9.445
9)	Aldrin	3.626	4.049	44793724	27592937	9.547	8.873
10)	Alachlor	3.743	3.940	8168908	5260086	12.524	12.201
11)	Chlorpyrifos	3.822	4.222	27404868	17485045	12.421	12.020
12)	Heptachlor E	4.120	4.515	45980412	27572647	10.484	9.874
13)	gamma-Chlord	4.219	4.663	46187163	31436934	10.144	10.970
14)	alpha-Chlord	4.323	4.775	47254359	26647249	10.668	9.893
15)	4,4'-DDE	4.383	4.893	42770402	23816424	9.543	9.092
16)	Endosulfan I	4.430	4.823	40853217	23738323	10.183	9.729
17)	Dieldrin	4.613	5.028	40979424	23845190	9.659	9.283
18)	Endrin	4.786	5.253	42092557	23787777	9.848	9.382
19)	4,4'-DDD	4.836	5.316	32027177	18553680	9.358	9.365
20)	Endosulfan I	4.952	5.401	39550112	22856395	10.282	10.157
21)	4,4'-DDT	5.040	5.537	38343436	22779264	9.594	9.896
22)	Endrin Aldeh	5.253	5.635	33350621	18850516	10.699	10.249
23)	Methoxychlor	5.386	5.994	23610795	12910213	11.727	11.289

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Sep 2020 11:33 pm
Operator : PEST15:el
Sample : il7pest,42e,,10026
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 08:02:24 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:01:24 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	5.482	6.165	35814149	19073671	11.972	12.344
25)	Endosulfan S	5.556	5.822	33331873	20279440	10.208	10.380
26)	Endrin Keton	5.746	6.184	39879377	23669182	10.412	10.269
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

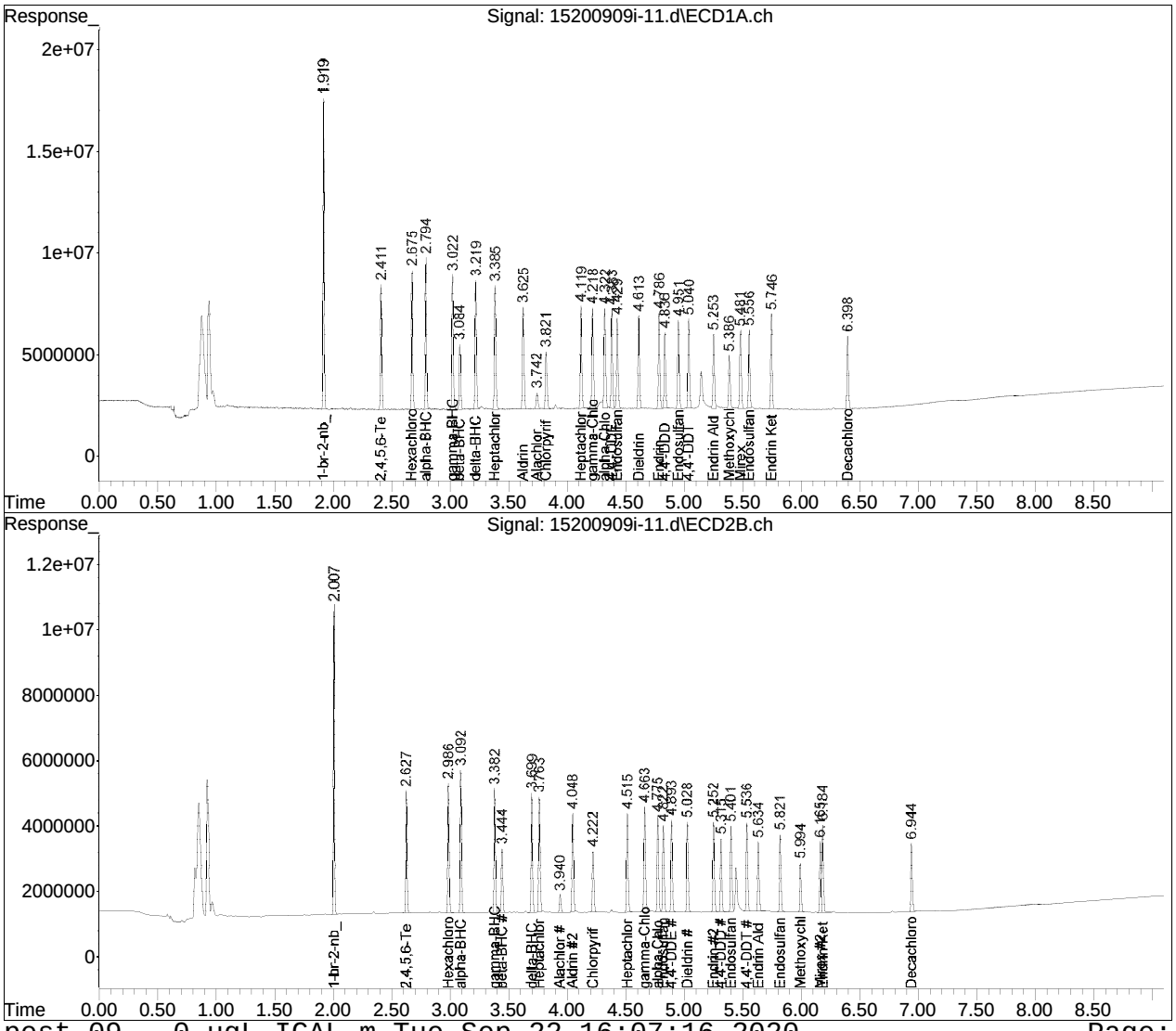
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Sep 2020 11:33 pm
Operator : PEST15:el
Sample : il7pest,42e,,10026
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 08:02:24 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:01:24 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest15\200909ICAL\	QMethod	: P15_pest_09_09_20_ugL_IC
Data File	: 15200909i-11.d	Operator	: PEST15:el
Date Inj'd	: 9/9/2020 11:33 pm	Instrument	: Pest 15
Sample	: il7pest,42e,,10026	Quant Date	: 9/10/2020 8:01 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Sep 2020 11:46 pm
Operator : PEST15:el
Sample : il8pest,42e,,10025
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 07:58:08 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 07:55:35 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.919	2.007	100.9E6	60886573	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.412	2.627	206.3E6	136.8E6	NoCal	NoCal
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	6.398	6.944	134.0E6	79873134	NoCal	NoCal
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	2.676	2.987	229.3E6	150.2E6	NoCal	NoCal
4)	alpha-BHC	2.795	3.093	277.6E6	187.4E6	NoCal	NoCal
5)	gamma-BHC (l	3.022	3.383	257.4E6	169.2E6	NoCal	NoCal
6)	beta-BHC	3.084	3.445	125.0E6	80302170	NoCal	NoCal
7)	delta-BHC	3.220	3.700	259.0E6	170.3E6	NoCal	NoCal
8)	Heptachlor	3.386	3.764	252.0E6	166.6E6	NoCal	NoCal
9)	Aldrin	3.626	4.049	225.7E6	147.8E6	NoCal	NoCal
10)	Alachlor	3.741	3.940	33572510	22556186	NoCal	NoCal
11)	Chlorpyrifos	3.822	4.223	116.0E6	74540418	NoCal	NoCal
12)	Heptachlor E	4.120	4.516	216.7E6	134.8E6	NoCal	NoCal
13)	gamma-Chlord	4.219	4.664	220.4E6	138.8E6	NoCal	NoCal
14)	alpha-Chlord	4.323	4.776	215.9E6	129.1E6	NoCal	NoCal
15)	4,4'-DDE	4.383	4.894	214.7E6	123.5E6	NoCal	NoCal
16)	Endosulfan I	4.430	4.824	197.4E6	117.0E6	NoCal	NoCal
17)	Dieldrin	4.613	5.029	205.5E6	121.7E6	NoCal	NoCal
18)	Endrin	4.787	5.253	209.1E6	120.5E6	NoCal	NoCal
19)	4,4'-DDD	4.836	5.316	165.8E6	93883263	NoCal	NoCal
20)	Endosulfan I	4.952	5.402	190.4E6	108.4E6	NoCal	NoCal
21)	4,4'-DDT	5.041	5.537	193.8E6	109.2E6	NoCal	NoCal
22)	Endrin Aldeh	5.253	5.635	151.9E6	89149848	NoCal	NoCal
23)	Methoxychlor	5.387	5.995	100.9E6	56876647	NoCal	NoCal

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Sep 2020 11:46 pm
Operator : PEST15:el
Sample : il8pest,42e,,10025
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 07:58:08 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 07:55:35 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	5.482	6.165	151.2E6	77442051	NoCal	NoCal
25)	Endosulfan S	5.557	5.822	160.0E6	94639563	NoCal	NoCal
26)	Endrin Keton	5.746	6.185	189.4E6	112.7E6	NoCal	NoCal
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

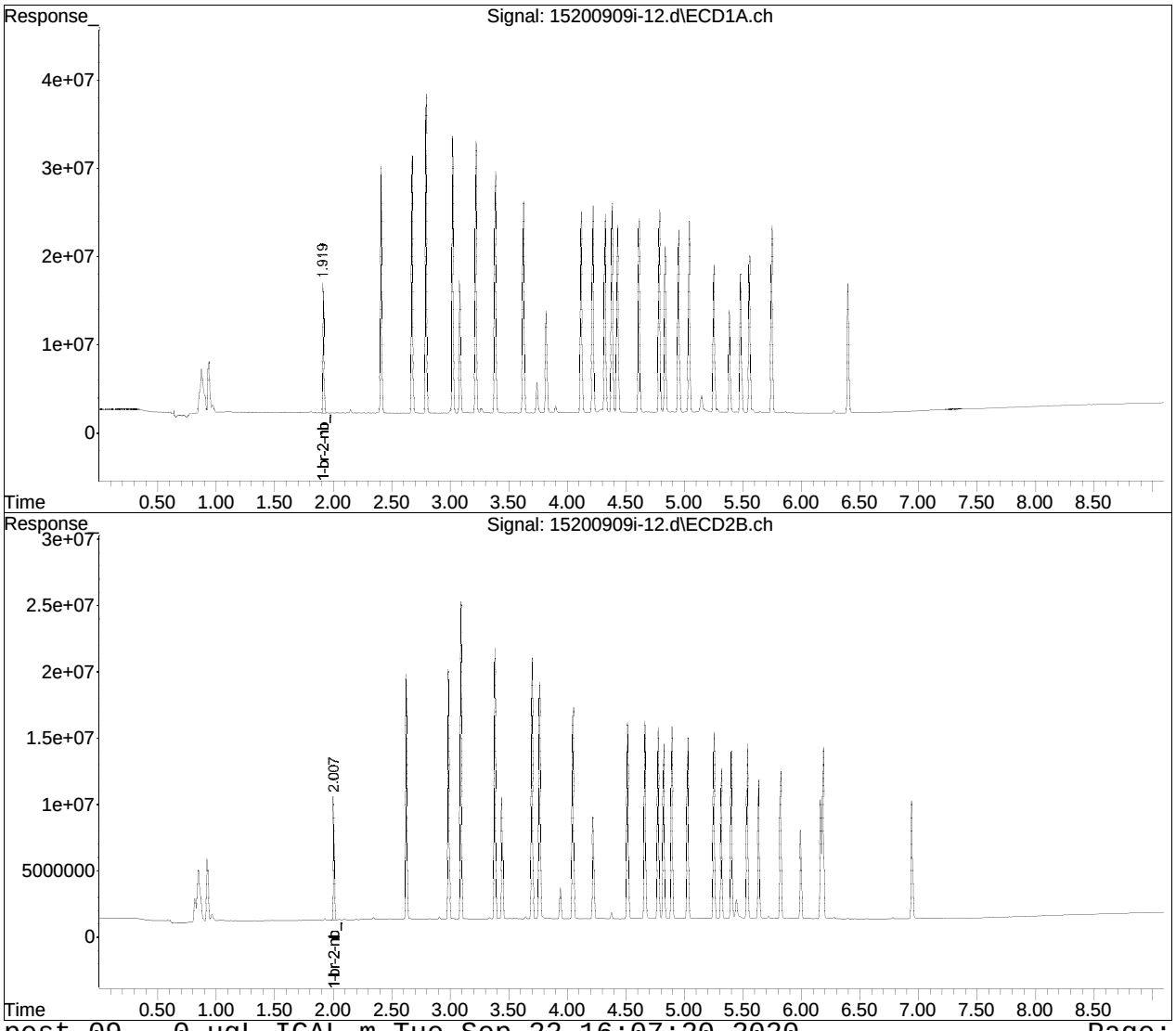
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Sep 2020 11:46 pm
Operator : PEST15:el
Sample : il8pest,42e,,10025
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 07:58:08 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 07:55:35 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest15\200909ICAL\	QMethod	: P15_pest_09_09_20_ugL_IC
Data File	: 15200909i-12.d	Operator	: PEST15:el
Date Inj'd	: 9/9/2020 11:46 pm	Instrument	: Pest 15
Sample	: il8pest,42e,,10025	Quant Date	: 9/10/2020 7:57 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Sep 2020 11:59 pm
Operator : PEST15:el
Sample : il9pest,42e,,10024
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 07:58:59 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 07:58:20 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.920	2.007	102.0E6	61386661	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.412	2.627	406.1E6	276.8E6	97.375	100.349
	Spiked Amount 50.000	Range 30 - 150		Recovery =		194.75%#	200.70%#
27) s	Decachlorobi	6.398	6.943	265.5E6	160.0E6	98.004	99.343
	Spiked Amount 50.000	Range 30 - 150		Recovery =		196.01%#	198.69%#
	Target Compounds						
3)	Hexachlorobe	2.676	2.987	442.8E6	300.5E6	95.519	99.238
4)	alpha-BHC	2.795	3.092	563.4E6	394.6E6	100.368	104.420
5)	gamma-BHC (l	3.023	3.383	515.7E6	352.3E6	99.092	103.241
6)	beta-BHC	3.084	3.444	242.7E6	160.7E6	96.041	99.258
7)	delta-BHC	3.220	3.700	523.7E6	357.5E6	100.000	104.123
8)	Heptachlor	3.386	3.764	498.7E6	342.9E6	97.881	102.094
9)	Aldrin	3.626	4.049	457.1E6	309.5E6	100.163	103.874
10)	Alachlor	3.742	3.940	64315824	42902323	94.752	94.326
11)	Chlorpyrifos	3.822	4.222	216.5E6	144.9E6	92.283	96.418
12)	Heptachlor E	4.120	4.516	427.4E6	277.6E6	97.560	102.129
13)	gamma-Chlord	4.219	4.663	444.2E6	284.2E6	99.700	101.553
14)	alpha-Chlord	4.324	4.776	433.8E6	268.5E6	99.393	103.154
15)	4,4'-DDE	4.384	4.894	441.1E6	263.5E6	101.643	105.811
16)	Endosulfan I	4.430	4.823	392.6E6	243.6E6	98.383	103.289
17)	Dieldrin	4.613	5.029	415.9E6	256.2E6	100.122	104.390
18)	Endrin	4.787	5.253	418.4E6	253.4E6	98.952	104.315
19)	4,4'-DDD	4.837	5.316	338.0E6	199.1E6	100.860	105.156
20)	Endosulfan I	4.952	5.402	376.7E6	224.8E6	97.873	102.814
21)	4,4'-DDT	5.041	5.537	394.3E6	231.2E6	100.623	104.976
22)	Endrin Aldeh	5.253	5.634	310.3E6	184.3E6	101.035	102.500
23)	Methoxychlor	5.387	5.994	202.2E6	114.8E6	99.135	100.081

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Sep 2020 11:59 pm
Operator : PEST15:el
Sample : il9pest,42e,,10024
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 07:58:59 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 07:58:20 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	5.482	6.165	295.1E6	154.6E6	96.528	99.015
25)	Endosulfan S	5.556	5.822	321.8E6	195.4E6	99.513	102.387
26)	Endrin Keton	5.746	6.185	377.3E6	228.5E6	98.519	100.544
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

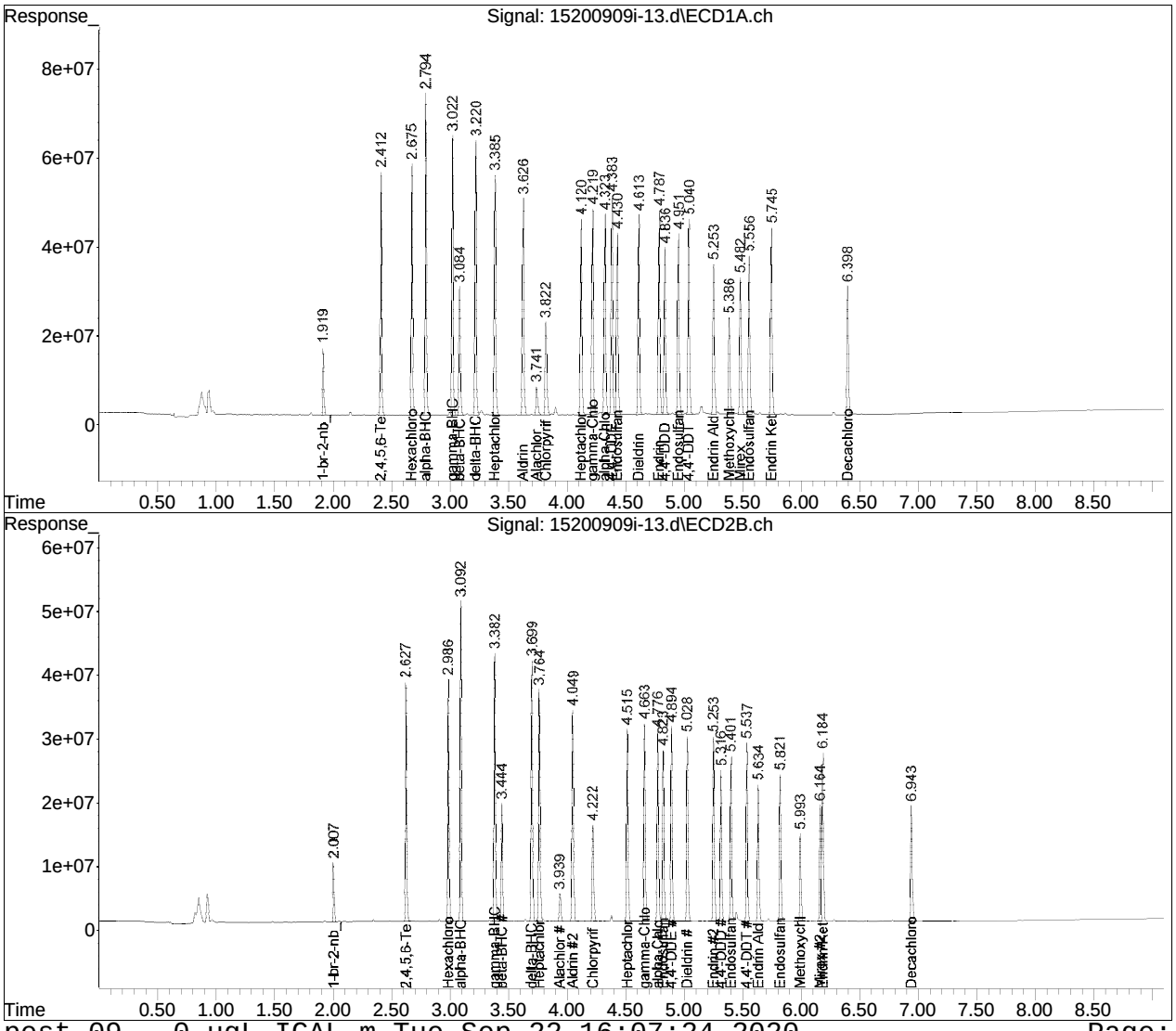
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Sep 2020 11:59 pm
Operator : PEST15:el
Sample : il9pest,42e,,10024
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 07:58:59 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 07:58:20 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest15\200909ICAL\	QMethod	: P15_pest_09_09_20_ugL_IC
Data File	: 15200909i-13.d	Operator	: PEST15:el
Date Inj'd	: 9/9/2020 11:59 pm	Instrument	: Pest 15
Sample	: il9pest,42e,,10024	Quant Date	: 9/10/2020 7:58 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-14.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 12:12 am
Operator : PEST15:el
Sample : il10pest,42e,,10023
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 08:01:16 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 07:59:13 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.920	2.007	105.4E6	63863478	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.412	2.628	815.9E6	570.6E6	191.949	198.515
	Spiked Amount 50.000	Range 30 - 150		Recovery =		383.90%#	397.03%#
27) s	Decachlorobi	6.398	6.944	491.4E6	305.4E6	177.434	182.851
	Spiked Amount 50.000	Range 30 - 150		Recovery =		354.87%#	365.70%#
	Target Compounds						
3)	Hexachlorobe	2.676	2.987	882.3E6	615.5E6	188.518	196.125
4)	alpha-BHC	2.795	3.093	1160.6E6	831.0E6	199.842	206.787
5)	gamma-BHC (l	3.023	3.383	1054.9E6	737.4E6	197.155	204.384
6)	beta-BHC	3.085	3.445	471.9E6	328.7E6	184.481	195.861
7)	delta-BHC	3.220	3.700	1075.2E6	753.3E6	198.796	206.639
8)	Heptachlor	3.386	3.764	985.2E6	697.0E6	189.249	197.368
9)	Aldrin	3.626	4.049	914.2E6	631.9E6	193.808	199.980
10)	Alachlor	3.741	3.940	116.3E6	78934518	170.413	171.688
11)	Chlorpyrifos	3.822	4.222	385.3E6	272.6E6	165.372	177.489
12)	Heptachlor E	4.120	4.516	830.4E6	559.2E6	185.778	195.648
13)	gamma-Chlord	4.219	4.663	880.3E6	573.7E6	191.596	195.567
14)	alpha-Chlord	4.323	4.775	846.6E6	542.0E6	188.397	197.054
15)	4,4'-DDE	4.383	4.894	867.9E6	530.7E6	192.044	199.041
16)	Endosulfan I	4.430	4.823	759.8E6	490.0E6	185.856	196.462
17)	Dieldrin	4.613	5.029	815.5E6	522.3E6	189.961	200.194
18)	Endrin	4.787	5.253	813.9E6	513.1E6	187.376	198.727
19)	4,4'-DDD	4.836	5.316	652.6E6	399.7E6	187.732	197.872
20)	Endosulfan I	4.952	5.401	723.0E6	449.4E6	183.828	194.879
21)	4,4'-DDT	5.041	5.537	762.2E6	464.3E6	187.765	197.725
22)	Endrin Aldeh	5.252	5.634	585.5E6	363.9E6	183.623	192.185
23)	Methoxychlor	5.387	5.994	362.8E6	219.8E6	172.917	184.130

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-14.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 12:12 am
Operator : PEST15:el
Sample : il10pest,42e,,10023
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 08:01:16 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 07:59:13 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	5.482	6.165	544.9E6	295.4E6	175.630	182.733
25)	Endosulfan S	5.556	5.821	616.5E6	387.5E6	185.042	192.901
26)	Endrin Keton	5.746	6.184	716.2E6	456.9E6	182.435	192.731
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

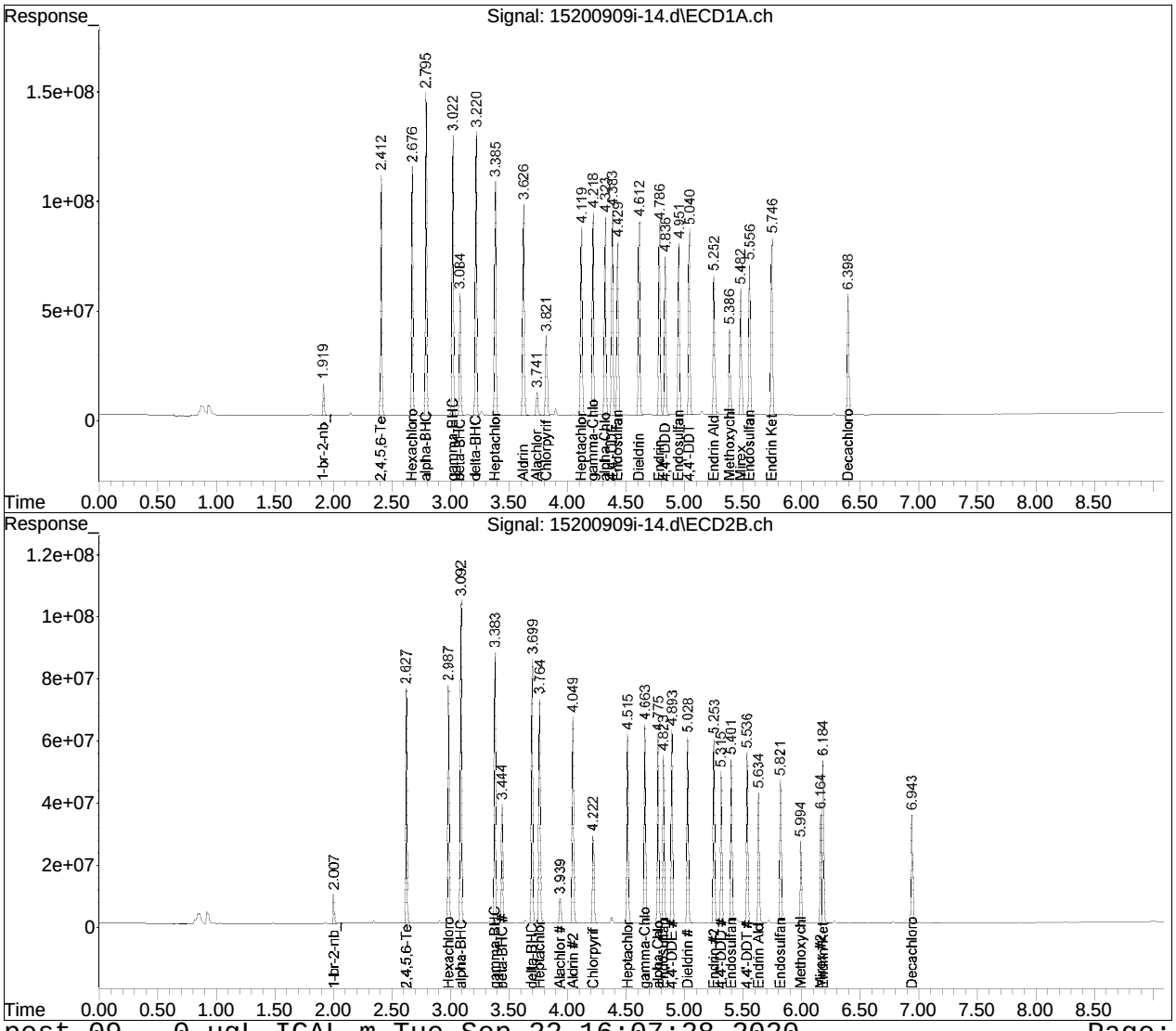
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-14.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 12:12 am
Operator : PEST15:el
Sample : il10pest,42e,,10023
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 08:01:16 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 07:59:13 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest15\200909ICAL\	QMethod	: P15_pest_09_09_20_ugL_IC
Data File	: 15200909i-14.d	Operator	: PEST15:el
Date Inj'd	: 9/10/2020 12:12 am	Instrument	: Pest 15
Sample	: il10pest,42e,,10023	Quant Date	: 9/10/2020 8:00 am

There are no manual integrations or false positives in this file.

Initial Calibration Verification

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-26.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 9:54 am
Operator : PEST15:el
Sample : pem15200909i26,42ee,,deg std 9973 (Sig #1); Deg std 9973 (Sig #2)
Misc : wg1413084,ical
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 15 09:10:46 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:58:49 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
	Internal Standards							
1) i	1-br-2-nb_Pe	1.922	2.009	112.2E6	70936345	25.000	25.000	
	System Monitoring Compounds							
	Target Compounds							
15)	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.	
18)	Endrin	4.789	5.254	237.3E6	146.8E6	51.356	52.516	
19)	4,4'-DDD	4.838	5.317	1257517	1234584	0.357M4	0.578	D
21)	4,4'-DDT	5.044	5.538	428.4E6	269.1E6	100.997	101.836	
22)	Endrin Aldeh	0.000	0.000	0	0	N.D.	N.D.	
26)	Endrin Keton	5.749	6.186	1103599	624719	0.251	0.228M2	
	Sum chlordane-1			0	0	N.D.	N.D.	
Average	chlordane-1					0.000	0.000	
	Sum toxaphene-1			0	0	N.D.	N.D.	
Average	toxaphene-1					0.000	0.000	
	SemiQuant Compounds - Not Calibrated on this Instrument							
	Sum toxaphene-1			0	0	N.D.	N.D.	
Average	toxaphene-1					0.000	0.000	

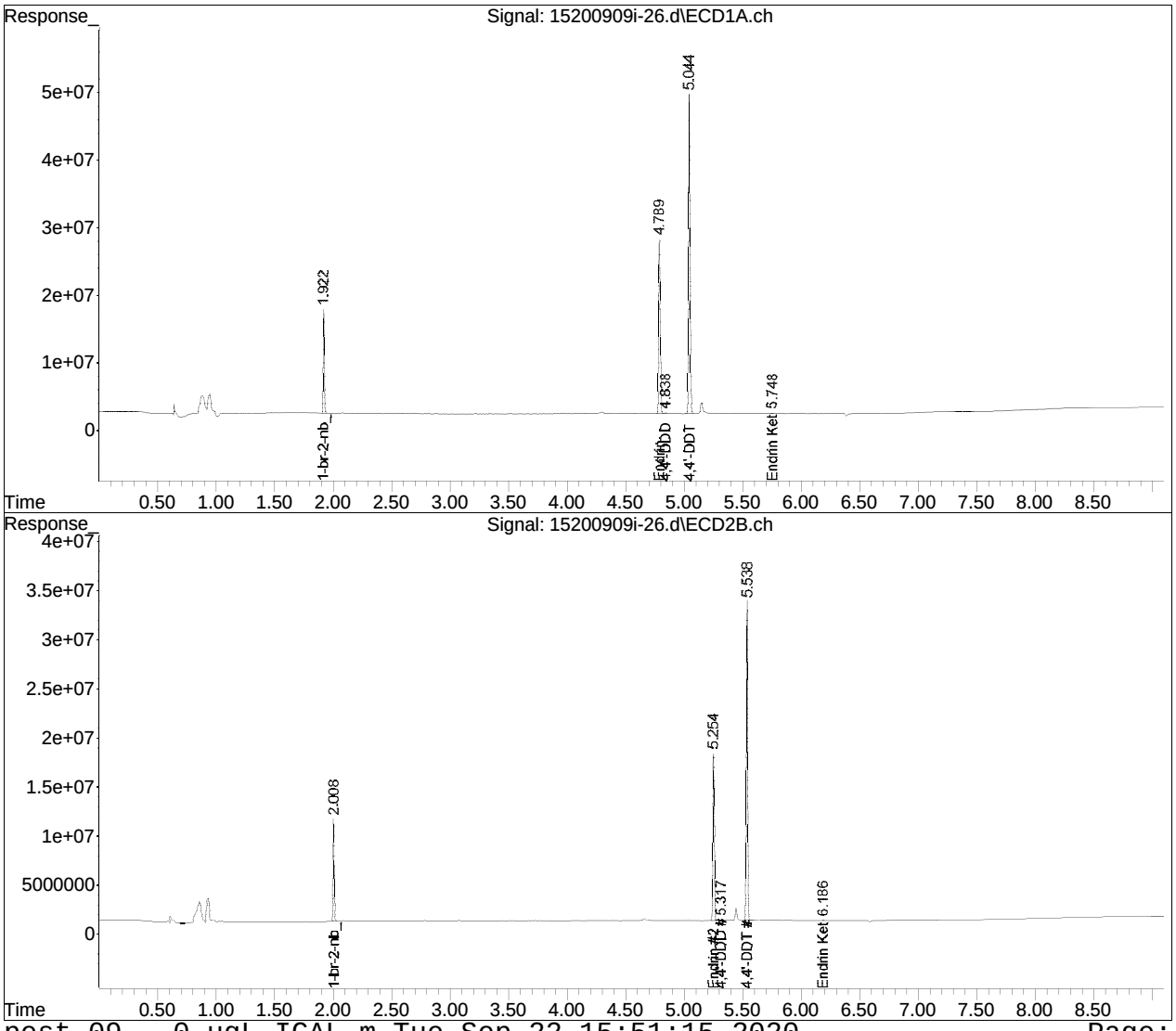
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-26.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 9:54 am
Operator : PEST15:el
Sample : pem15200909i26,42ee,,deg std 9973 (Sig #1); Deg std 9973 (Sig #2)
Misc : wg1413084,ical
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 15 09:10:46 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:58:49 2020
Response via : Initial Calibration
Integrator: ChemStation

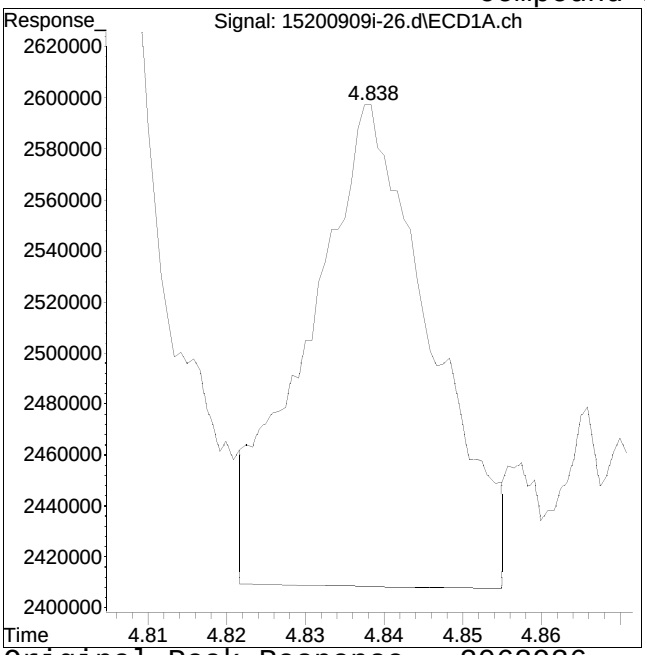
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

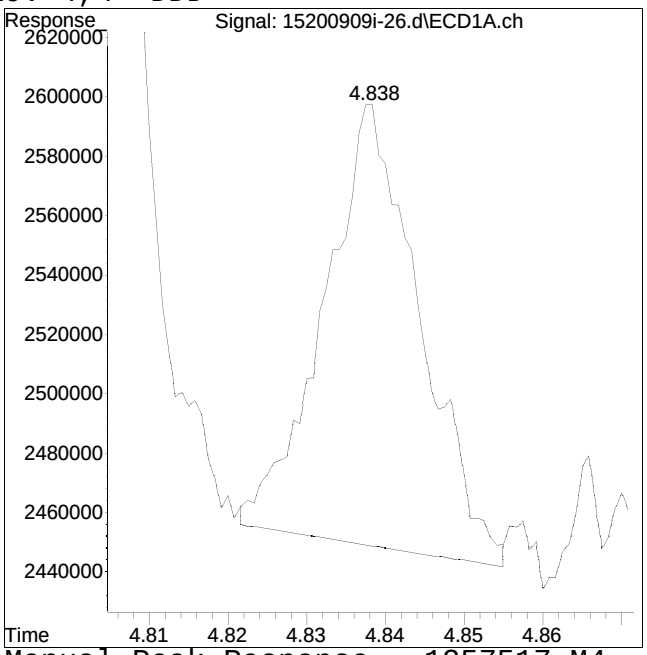


Manual Integration Report

Data Path : I:\Pest15\200909ICAL\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15200909i-26.d Operator : PEST15:el
Date Inj'd : 9/10/2020 9:54 am Instrument : Pest 15
Sample : pem15200909i26,42ee,,deg sQuant Date : 9/15/2020 9:09 am

Compound #19: 4,4'-DDD



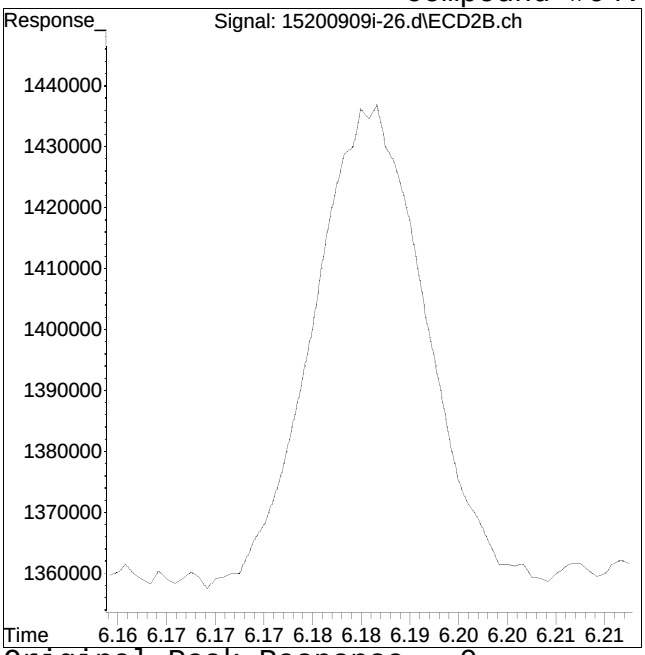


Original Peak Response = 2062936 Manual Peak Response = 1257517 M4
M4 = Poor automated baseline construction.

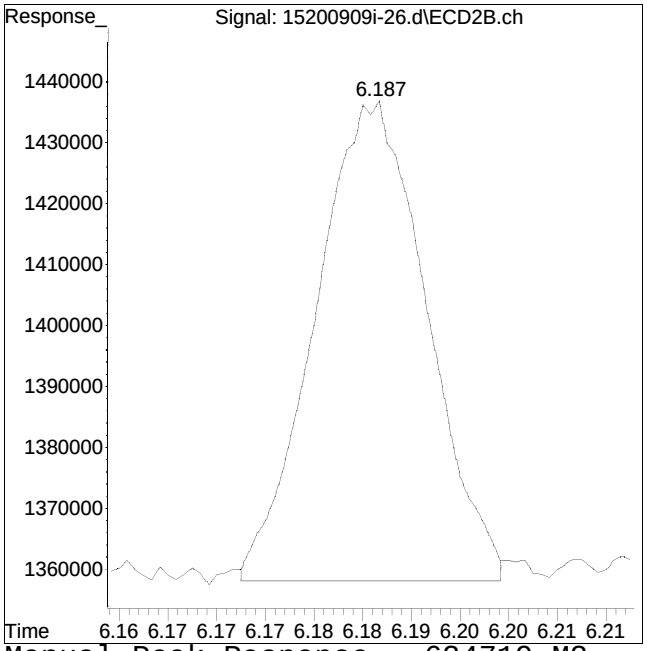
Manual Integration Report

Data Path : I:\Pest15\200909ICAL\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15200909i-26.d Operator : PEST15:el
Date Inj'd : 9/10/2020 9:54 am Instrument : Pest 15
Sample : pem15200909i26,42ee,,deg sQuant Date : 9/15/2020 9:09 am

Compound #64: Endrin Ketone #2



Original Peak Response = 0



Manual Peak Response = 624719 M2

M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-27.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 10 Sep 2020 10:07 am
Operator : PEST15:el
Sample   : cicvpest,42e,,10015
Misc   : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 27   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 15 09:08:11 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:58:49 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	108	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	50.000	48.352	3.3	107	0.00
3		Hexachlorobenzene	50.000	47.979	4.0	111	0.00
4		alpha-BHC	50.000	53.507	-7.0	110	0.00
5		gamma-BHC (lindane)	50.000	51.630	-3.3	109	0.00
6		beta-BHC	50.000	47.500	5.0	107	0.00
7		delta-BHC	50.000	54.173	-8.3	112	0.00
8		Heptachlor	50.000	49.229	1.5	107	0.00
9		Aldrin	50.000	53.327	-6.7	110	0.00
10		Alachlor	50.000	47.723	4.6	109	0.00
11		Chlorpyrifos	50.000	44.928	10.1	113	0.00
12		Heptachlor Epoxide	50.000	49.314	1.4	109	0.00
13		gamma-Chlordane (trans)	50.000	49.968	0.1	109	0.00
14		alpha-Chlordane (cis)	50.000	46.547	6.9	106	0.00
15		4,4'-DDE	50.000	52.549	-5.1	108	0.00
16		Endosulfan I	50.000	50.811	-1.6	110	0.00
17		Dieldrin	50.000	54.161	-8.3	114	0.00
18		Endrin	50.000	51.575	-3.2	110	0.00
19		4,4'-DDD	50.000	57.321	-14.6	118	0.00
20		Endosulfan II	50.000	49.264	1.5	108	0.00
21		4,4'-DDT	50.000	52.327	-4.7	111	0.00
22		Endrin Aldehyde	50.000	47.092	5.8	106	0.00
23		Methoxychlor	50.000	47.515	5.0	111	0.00
24		Mirex	50.000	41.375	17.3	107	0.00
25		Endosulfan Sulfate	50.000	50.036	-0.1	114	0.00
26		Endrin Ketone	50.000	49.685	0.6	112	0.00
27	s	Decachlorobiphenyl	50.000	44.591	10.8	109	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-27.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 10 Sep 2020 10:07 am
Operator : PEST15:el
Sample   : cicvpest,42e,,10015
Misc   : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 27   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 15 09:08:11 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:58:49 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	112	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl	50.000	50.270	-0.5	114	0.00
3		Hexachlorobenzene	50.000	49.105	1.8	118	0.00
4		alpha-BHC	50.000	57.820	-15.6	118	0.00
5		gamma-BHC (lindane)	50.000	54.320	-8.6	116	0.00
6		beta-BHC	50.000	46.475	7.0	112	0.00
7		delta-BHC	50.000	56.582	-13.2	119	0.00
8		Heptachlor	50.000	52.247	-4.5	117	0.00
9		Aldrin	50.000	56.446	-12.9	119	0.00
10		Alachlor	50.000	47.656	4.7	116	0.00
11		Chlorpyrifos	50.000	45.217	9.6	118	0.00
12		Heptachlor Epoxide	50.000	51.643	-3.3	119	0.00
13		gamma-Chlordane (trans)	50.000	51.655	-3.3	117	0.00
14		alpha-Chlordane (cis)	50.000	49.584	0.8	115	0.00
15		4,4'-DDE	50.000	54.336	-8.7	117	0.00
16		Endosulfan I	50.000	51.957	-3.9	118	0.00
17		Dieldrin	50.000	56.978	-14.0	126	0.00
18		Endrin	50.000	53.269	-6.5	118	0.00
19		4,4'-DDD	50.000	57.141	-14.3	125	0.00
20		Endosulfan II	50.000	48.339	3.3	116	0.00
21		4,4'-DDT	50.000	50.495	-1.0	117	0.00
22		Endrin Aldehyde	50.000	46.682	6.6	111	0.00
23		Methoxychlor	50.000	47.624	4.8	117	0.00
24		Mirex	50.000	40.009	20.0	112	0.00
25		Endosulfan Sulfate	50.000	51.000	-2.0	123	0.00
26		Endrin Ketone	50.000	51.037	-2.1	119	0.00
27	s	Decachlorobiphenyl	50.000	42.801	14.4	112	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-27.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 10 Sep 2020 10:07 am
Operator : PEST15:el
Sample   : cicvpest,42e,,10015
Misc   : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 27   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 15 09:08:11 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:58:49 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	0	-1.92#
29	l1	chlordane-1	2500.000	0.000	100.0#	0	-3.32#
30	l1	chlordane-3	2500.000	0.000	100.0#	0	-3.73#
31	l1	chlordane-4	2500.000	0.000	100.0#	0	-4.22#
32	l1	chlordane-5	2500.000	0.000	100.0#	0	-4.32#
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	0	-1.92#
34	l2	toxaphene-1	5000.000	0.000	100.0#	0	-4.94#
35	l2	toxaphene-2	5000.000	0.000	100.0#	0	-5.03#
36	l2	toxaphene-4	5000.000	0.000	100.0#	0	-5.42#
37	l2	toxaphene-5	5000.000	0.000	100.0#	0	-5.49#

Signal #2

28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	0	-2.01#
29	l1	chlordane-1	2500.000	0.000	100.0#	0	-3.64#
30	l1	chlordane-3	2500.000	0.000	100.0#	0	-4.17#
31	l1	chlordane-4	2500.000	0.000	100.0#	0	-4.74#
32	l1	chlordane-5	2500.000	0.000	100.0#	0	-4.78#
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	0	-2.01#
34	l2	toxaphene-1	5000.000	0.000	100.0#	0	-5.36#
35	l2	toxaphene-2	5000.000	0.000	100.0#	0	-5.39#
36	l2	toxaphene-4	5000.000	0.000	100.0#	0	-5.64#
37	l2	toxaphene-5	5000.000	0.000	100.0#	0	-5.99#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-27.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 10:07 am
Operator : PEST15:el
Sample : cicvpest,42e,,10015
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 15 09:08:11 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:58:49 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.920	2.008	108.6E6	67986654	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.413	2.628	221.5E6	156.0E6	48.352	50.270
	Spiked Amount 50.000	Range 30 - 150		Recovery =		96.70%	100.54%
27) s	Decachlorobi	6.402	6.946	146.2E6	89459994	44.591	42.801
	Spiked Amount 50.000	Range 30 - 150		Recovery =		89.18%	85.60%
	Target Compounds						
3)	Hexachlorobe	2.677	2.987	253.9E6	177.2E6	47.979	49.105
4)	alpha-BHC	2.796	3.092	306.2E6	221.5E6	53.507	57.820
5)	gamma-BHC (l	3.024	3.383	279.7E6	196.0E6	51.630	54.320
6)	beta-BHC	3.086	3.444	134.3E6	90289208	47.500	46.475
7)	delta-BHC	3.222	3.700	289.2E6	202.9E6	54.173	56.582
8)	Heptachlor	3.387	3.764	270.2E6	194.4E6	49.229	52.247
9)	Aldrin	3.628	4.049	249.4E6	175.2E6	53.327	56.446
10)	Alachlor	3.742	3.940	36718057	26227050	47.723	47.656
11)	Chlorpyrifos	3.823	4.222	130.8E6	88040786	44.928	45.217
12)	Heptachlor E	4.122	4.516	236.9E6	160.2E6	49.314	51.643
13)	gamma-Chlord	4.221	4.664	239.8E6	162.0E6	49.968	51.655
14)	alpha-Chlord	4.325	4.776	229.5E6	148.4E6	46.547	49.584
15)	4,4'-DDE	4.385	4.894	232.6E6	144.1E6	52.549	54.336
16)	Endosulfan I	4.432	4.824	216.6E6	137.6E6	50.811	51.957
17)	Dieldrin	4.615	5.029	234.5E6	152.8E6	54.161	56.978
18)	Endrin	4.788	5.253	230.7E6	142.7E6	51.575	53.269
19)	4,4'-DDD	4.838	5.317	195.5E6	117.0E6	57.321	57.141
20)	Endosulfan I	4.953	5.402	206.3E6	125.2E6	49.264	48.339
21)	4,4'-DDT	5.043	5.538	214.8E6	127.9E6	52.327	50.495
22)	Endrin Aldeh	5.255	5.636	160.3E6	99233985	47.092	46.682
23)	Methoxychlor	5.389	5.995	112.4E6	66693825	47.515	47.624

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-27.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 10:07 am
Operator : PEST15:el
Sample : cicvpest,42e,,10015
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 15 09:08:11 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:58:49 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	5.484	6.166	161.0E6	87050392	41.375	40.009
25)	Endosulfan S	5.559	5.823	183.1E6	116.0E6	50.036	51.000
26)	Endrin Keton	5.748	6.186	211.6E6	134.2E6	49.685	51.037
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

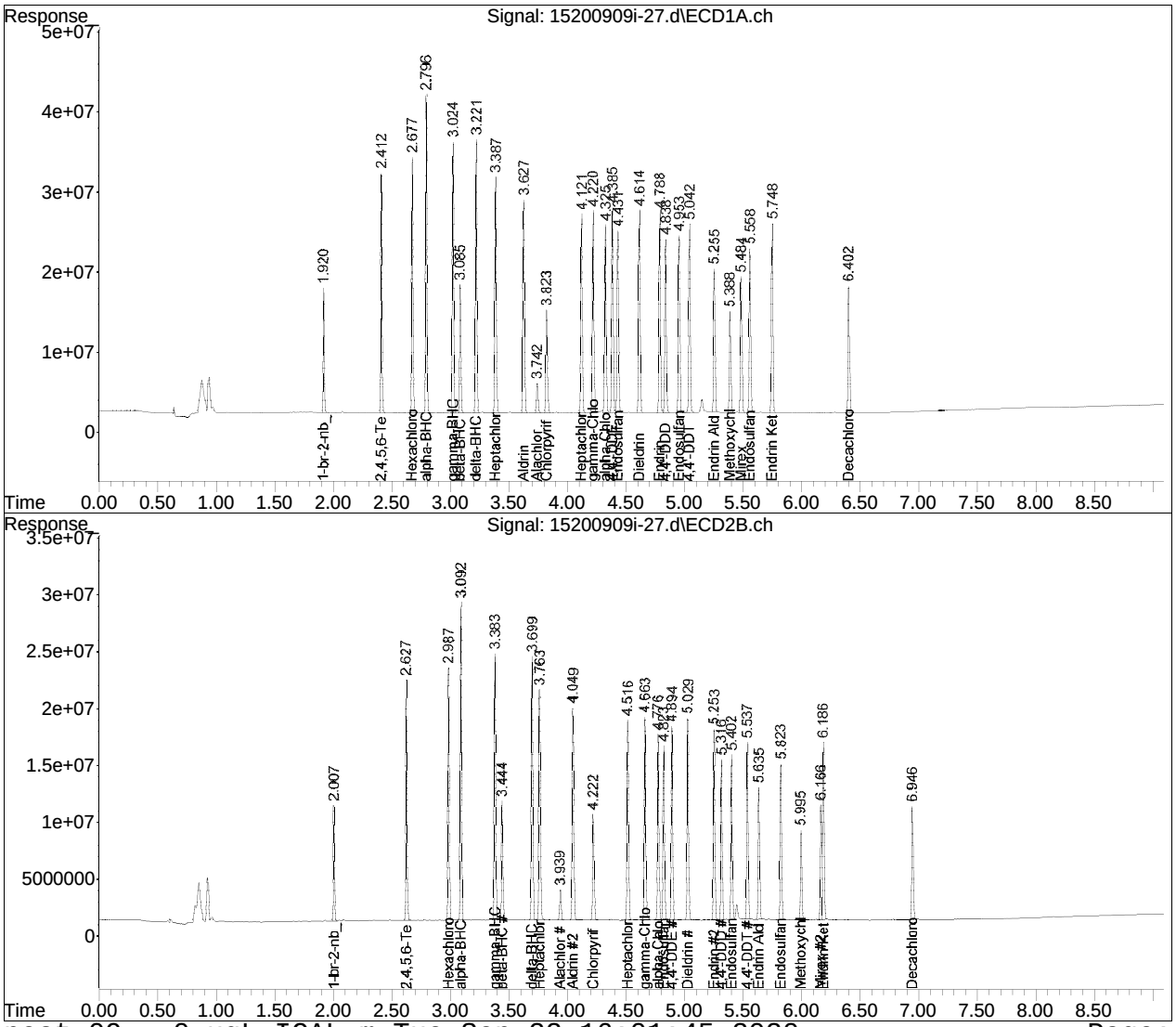
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-27.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 10:07 am
Operator : PEST15:el
Sample : cicvpest,42e,,10015
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 15 09:08:11 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:58:49 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest15\200909ICAL\	QMethod	: P15_pest_09_09_20_ugL_IC
Data File	: 15200909i-27.d	Operator	: PEST15:el
Date Inj'd	: 9/10/2020 10:07 am	Instrument	: Pest 15
Sample	: cicvpest,42e,,10015	Quant Date	: 9/15/2020 9:07 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-35.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 4:21 pm
Operator : PEST15:el
Sample : il2chlor,42e,,10036
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 15 09:18:17 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Sep 15 09:12:31 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.921	2.007	105.2E6	66055412	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-35.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 4:21 pm
Operator : PEST15:el
Sample : il2chlor,42e,,10036
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 15 09:18:17 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Sep 15 09:12:31 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d	
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d	
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d	
29)	l1	chlordane-1	3.328	3.638	1932186	1129770	11.983	10.046	
30)	l1	chlordane-3	3.740	4.170	2341646	1291920	13.409	11.786	
31)	l1	chlordane-4	4.225	4.736	5658024	3345296	10.576	11.454	
32)	l1	chlordane-5	4.317	4.777	6285248	3192636	7.730	11.090	
		Sum chlordane-1			16217104	8959622	N.D.	N.D.	D
		Average chlordane-1					10.924	11.094	
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d	
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d	
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d	
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d	
		Sum toxaphene-1			0	0	N.D.	N.D.	
		Average toxaphene-1					0.000	0.000	

SemiQuant Compounds - Not Calibrated on this Instrument

		Sum toxaphene-1			0	0	N.D.	N.D.	
		Average toxaphene-1					0.000	0.000	

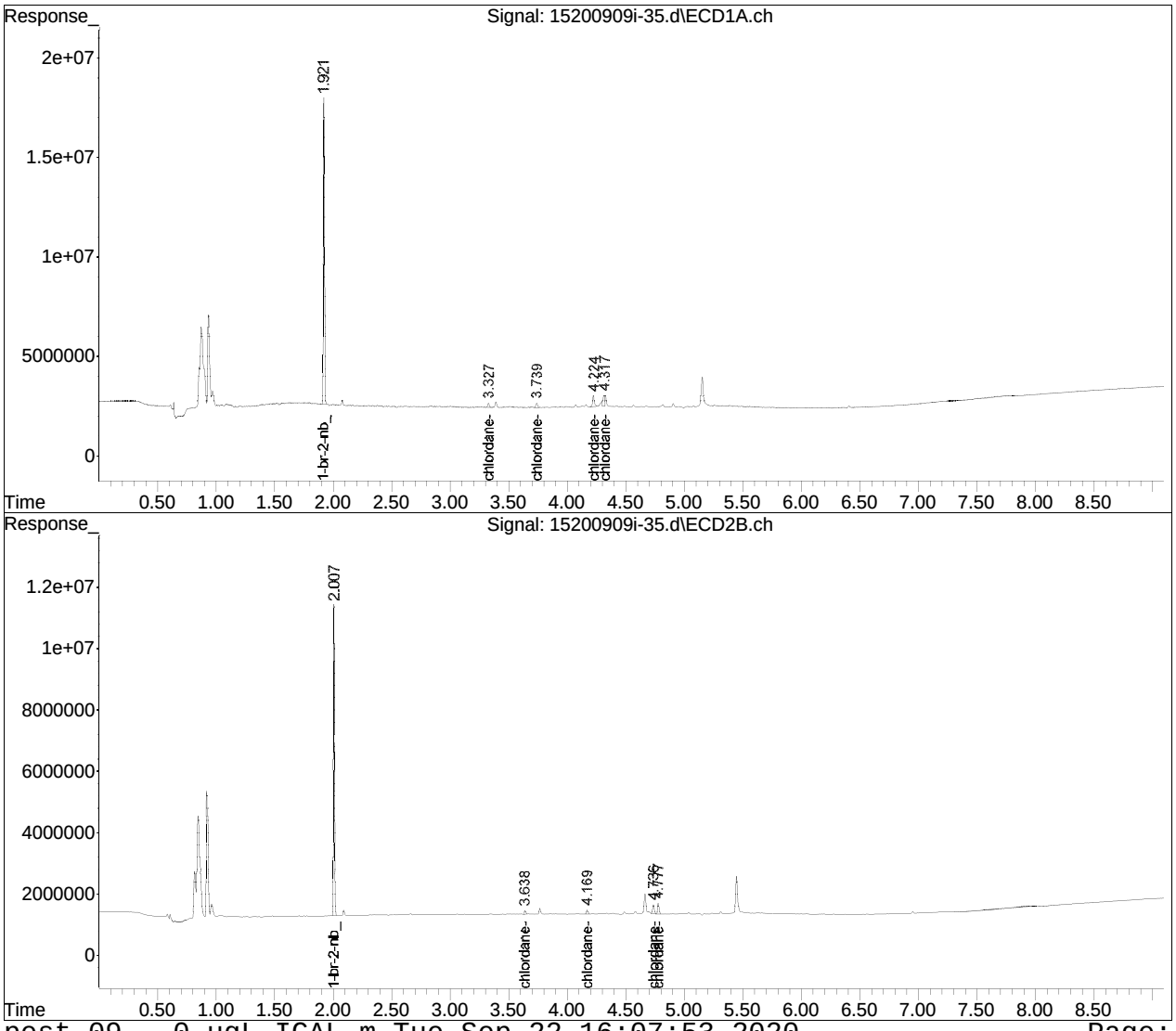
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-35.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 4:21 pm
Operator : PEST15:el
Sample : il2chlor,42e,,10036
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 15 09:18:17 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Sep 15 09:12:31 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest15\200909ICAL\	QMethod	: P15_pest_09_09_20_ugL_IC
Data File	: 15200909i-35.d	Operator	: PEST15:el
Date Inj'd	: 9/10/2020 4:21 pm	Instrument	: Pest 15
Sample	: il2chlor,42e,,10036	Quant Date	: 9/15/2020 9:17 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-29.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 10:33 am
Operator : PEST15:el
Sample : il3chlor,42e,,10036
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 15 09:14:39 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Sep 15 09:12:31 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.919	2.007	108.7E6	68716179	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-29.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 10:33 am
Operator : PEST15:el
Sample : il3chlor,42e,,10036
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 15 09:14:39 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Sep 15 09:12:31 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.322	3.637	3953082	2383297	23.740	20.371
30)	l1	chlordane-3	3.733	4.168	4376112	2816754	24.265	24.701
31)	l1	chlordane-4	4.219	4.734	12711173	5901580	23.008M4	19.424
32)	l1	chlordane-5	4.323	4.776	23511386	6096133	28.000M1	20.355
	Sum	chlordane-1			44551753	17197764	N.D.	N.D. D
Average		chlordane-1					24.753	21.213
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

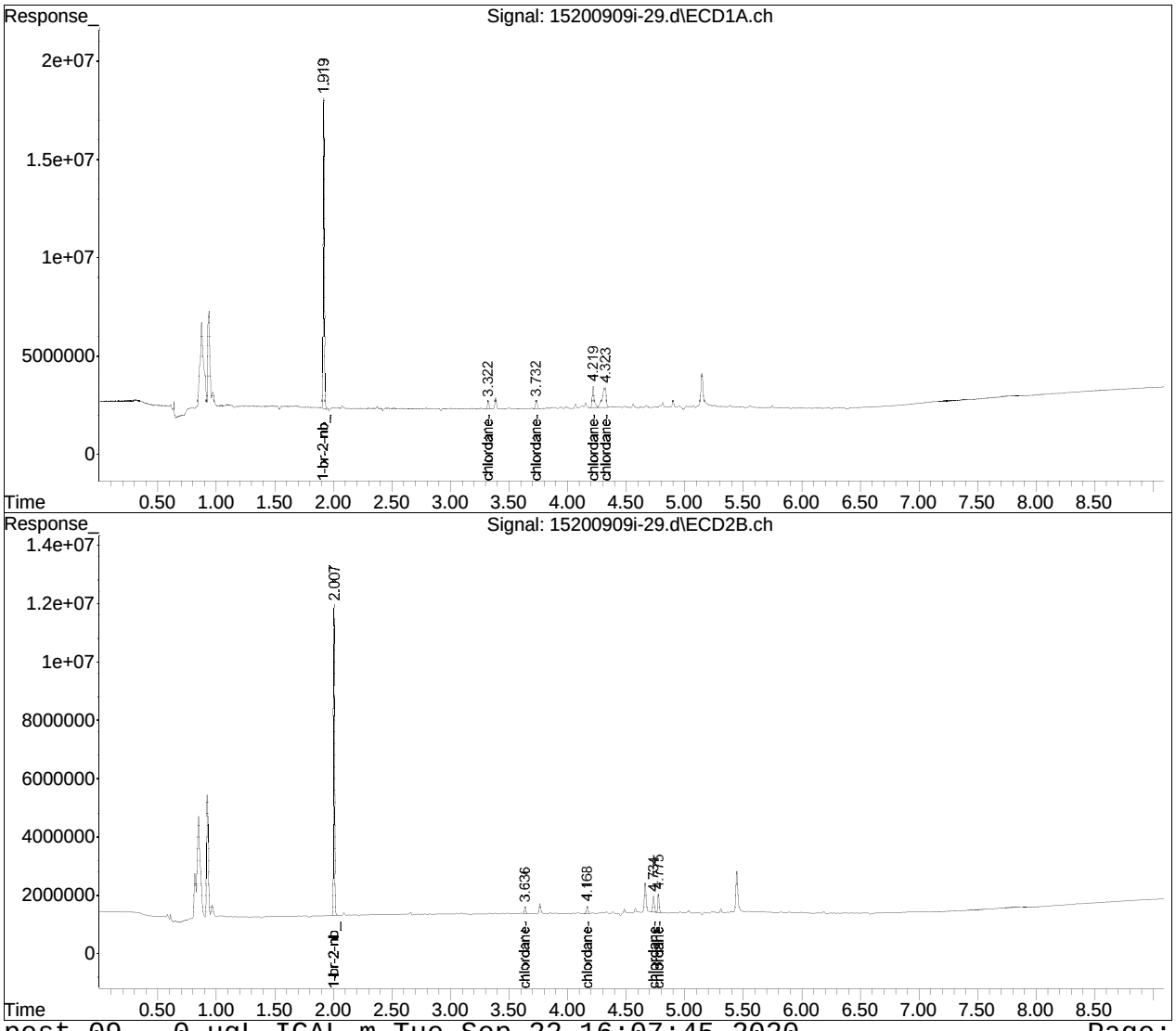
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-29.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 10:33 am
Operator : PEST15:el
Sample : il3chlor,42e,,10036
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 15 09:14:39 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Sep 15 09:12:31 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

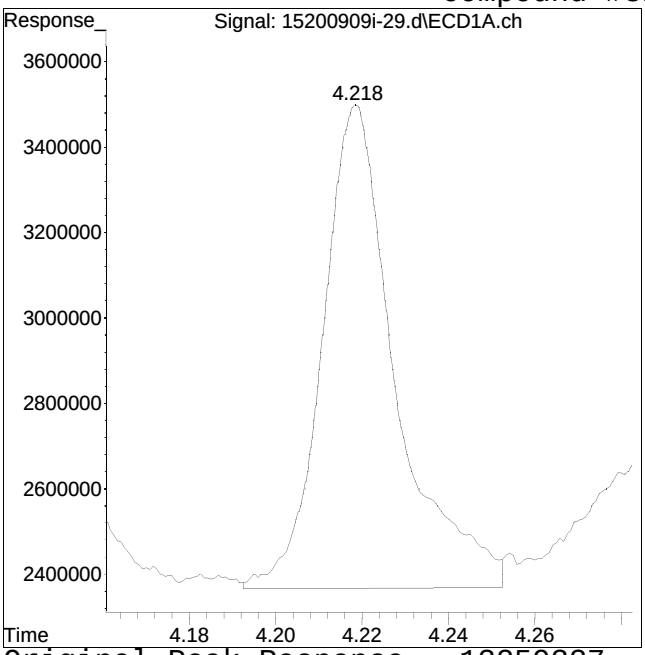


Manual Integration Report

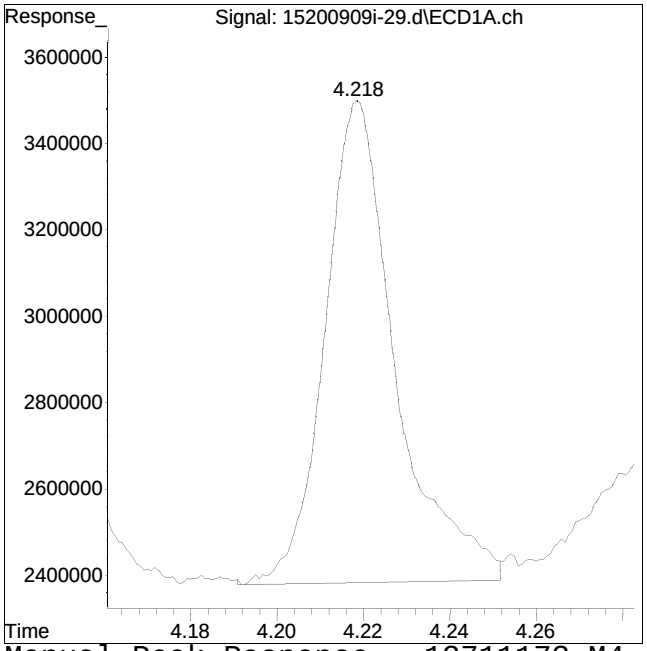
Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-29.d
Date Inj'd : 9/10/2020 10:33 am
Sample : il3chlor,42e,,10036

QMethod : P15_pest_09_09_20_ugL_IC
Operator : PEST15:el
Instrument : Pest 15
Quant Date : 9/15/2020 9:12 am

Compound #31: chlordane-4



Original Peak Response = 13259337



Manual Peak Response = 12711173 M4

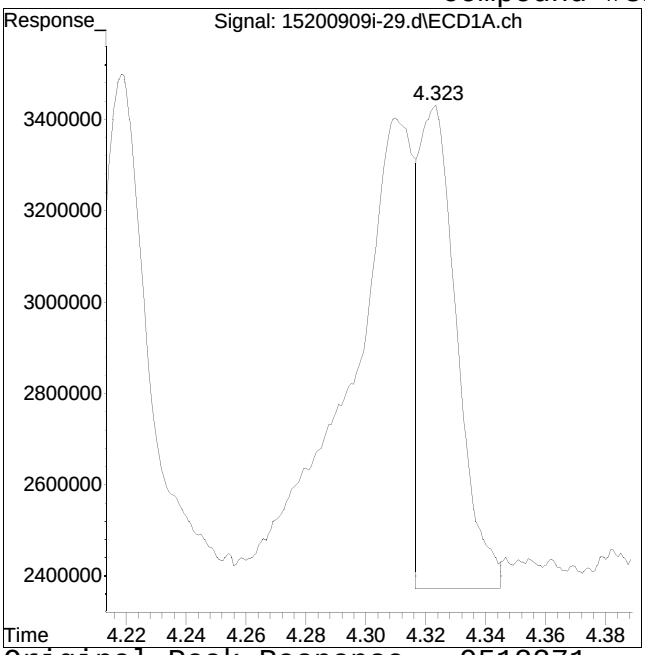
M4 = Poor automated baseline construction.

Manual Integration Report

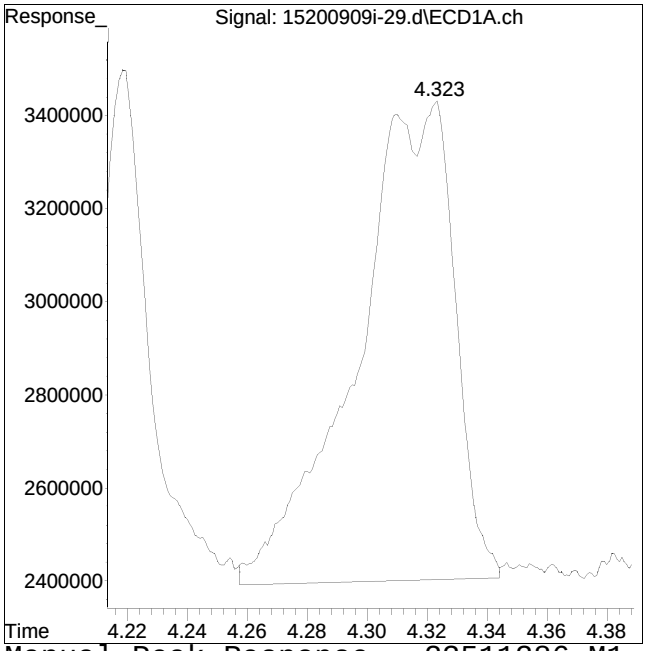
Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-29.d
Date Inj'd : 9/10/2020 10:33 am
Sample : il3chlor,42e,,10036

QMethod : P15_pest_09_09_20_ugL_IC
Operator : PEST15:el
Instrument : Pest 15
Quant Date : 9/15/2020 9:12 am

Compound #32: chlordane-5



Original Peak Response = 9512271



Manual Peak Response = 23511386 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-30.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 10:46 am
Operator : PEST15:el
Sample : il7chlor,42e,,10035
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 15 09:12:01 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:58:49 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.920	2.007	109.4E6	67459959	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-30.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 10:46 am
Operator : PEST15:el
Sample : il7chlor,42e,,10035
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 15 09:12:01 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:58:49 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d	
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d	
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d	
29)	l1	chlordane-1	3.323	3.637	167.6E6	114.9E6	954.716	947.364	
30)	l1	chlordane-3	3.735	4.168	181.5E6	111.9E6	948.718	915.701	
31)	l1	chlordane-4	4.220	4.735	556.1E6	298.3E6	910.516	931.032	
32)	l1	chlordane-5	4.322	4.776	845.2E6	294.0E6	891.601	934.747	
	Sum	chlordane-1			1750.5E6	819.1E6	N.D.	N.D.	D
Average		chlordane-1					926.388	932.211	
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d	
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d	
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d	
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d	
	Sum	toxaphene-1			0	0	N.D.	N.D.	
Average		toxaphene-1					0.000	0.000	

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			0	0	N.D.	N.D.	
Average		toxaphene-1					0.000	0.000	

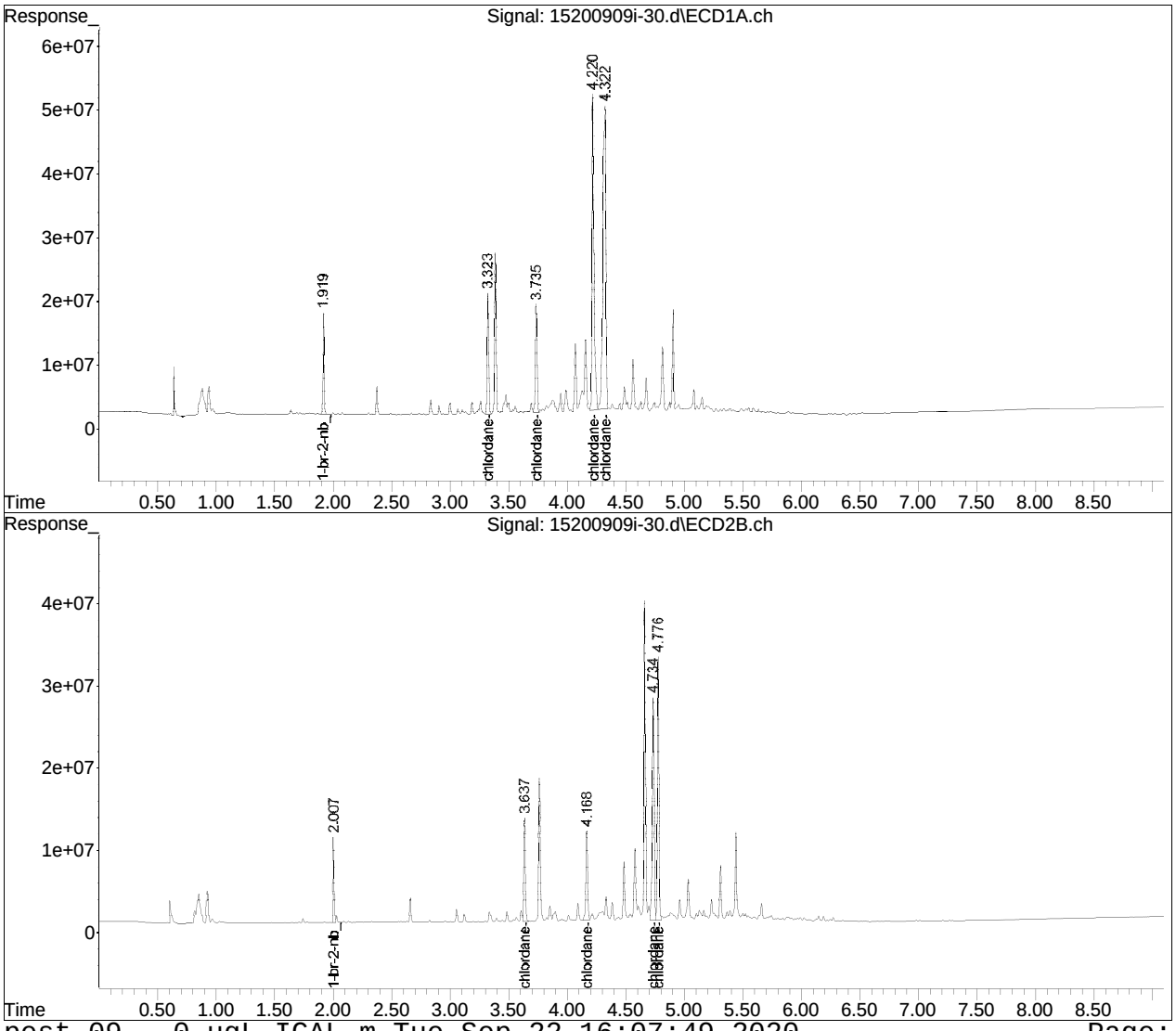
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-30.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 10:46 am
Operator : PEST15:el
Sample : il7chlor,42e,,10035
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 15 09:12:01 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:58:49 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest15\200909ICAL\	QMethod	: P15_pest_09_09_20_ugL_IC
Data File	: 15200909i-30.d	Operator	: PEST15:el
Date Inj'd	: 9/10/2020 10:46 am	Instrument	: Pest 15
Sample	: il7chlor,42e,,10035	Quant Date	: 9/15/2020 9:11 am

There are no manual integrations or false positives in this file.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-31.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 10 Sep 2020 10:59 am
Operator : PEST15:el
Sample   : cicvchlor,42e,,10043
Misc   : wg1413084,ical
ALS Vial : 31   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 16:31:35 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Sep 22 16:31:10 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	99	0.00
29	l1	chlordane-1	1000.000	764.218	23.6#	76	0.00
30	l1	chlordane-3	1000.000	878.002	12.2	87	0.00
31	l1	chlordane-4	1000.000	941.523	5.8	93	0.00
32	l1	chlordane-5	1000.000	1040.443	-4.0	103	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	100	0.00
29	l1	chlordane-1	1000.000	750.173	25.0#	75	0.00
30	l1	chlordane-3	1000.000	897.269	10.3	89	0.00
31	l1	chlordane-4	1000.000	1185.742	-18.6	118	0.00
32	l1	chlordane-5	1000.000	831.924	16.8	83	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	0	-1.92#
2	s	2,4,5,6-Tetrachloro-m-xylen	10.000	0.000	100.0#	0	-2.41#
3		Hexachlorobenzene	10.000	0.000	100.0#	0	-2.68#
4		alpha-BHC	10.000	0.000	100.0#	0	-2.79#
5		gamma-BHC (lindane)	10.000	0.000	100.0#	0	-3.02#
6		beta-BHC	10.000	0.000	100.0#	0	-3.08#
7		delta-BHC	10.000	0.000	100.0#	0	-3.22#
8		Heptachlor	10.000	0.000	100.0#	0	-3.39#
9		Aldrin	10.000	0.000	100.0#	0	-3.63#
10		Alachlor	10.000	0.000	100.0#	0	-3.74#
11		Chlorpyrifos	10.000	0.000	100.0#	0	-3.82#
12		Heptachlor Epoxide	10.000	0.000	100.0#	0	-4.12#
13		gamma-Chlordane (trans)	10.000	0.000	100.0#	0	-4.22#

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-31.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 10 Sep 2020 10:59 am
Operator : PEST15:el
Sample   : cicvchlor,42e,,10043
Misc   : wg1413084,ical
ALS Vial : 31   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 16:31:35 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Sep 22 16:31:10 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)	10.000	0.000	100.0#	0	-4.32#
15		4,4'-DDE	10.000	0.000	100.0#	0	-4.38#
16		Endosulfan I	10.000	0.000	100.0#	0	-4.43#
17		Dieldrin	10.000	0.000	100.0#	0	-4.61#
18		Endrin	10.000	0.000	100.0#	0	-4.79#
19		4,4'-DDD	10.000	0.000	100.0#	0	-4.84#
20		Endosulfan II	10.000	0.000	100.0#	0	-4.95#
21		4,4'-DDT	10.000	0.000	100.0#	0	-5.04#
22		Endrin Aldehyde	10.000	0.000	100.0#	0	-5.25#
23		Methoxychlor	10.000	0.000	100.0#	0	-5.39#
24		Mirex	10.000	0.000	100.0#	0	-5.48#
25		Endosulfan Sulfate	10.000	0.000	100.0#	0	-5.56#
26		Endrin Ketone	10.000	0.000	100.0#	0	-5.75#
27	s	Decachlorobiphenyl	10.000	0.000	100.0#	0	-6.40#
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	0	-1.92#
34	l2	toxaphene-1	2000.000	0.000	100.0#	0	-4.94#
35	l2	toxaphene-2	2000.000	0.000	100.0#	0	-5.03#
36	l2	toxaphene-4	2000.000	0.000	100.0#	0	-5.42#
37	l2	toxaphene-5	2000.000	0.000	100.0#	0	-5.49#

Signal #2

1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	0	-2.01#
2	s	2,4,5,6-Tetrachloro-m-xyl	10.000	0.000	100.0#	0	-2.63#
3		Hexachlorobenzene	10.000	0.000	100.0#	0	-2.99#
4		alpha-BHC	10.000	0.000	100.0#	0	-3.09#
5		gamma-BHC (lindane)	10.000	0.000	100.0#	0	-3.38#
6		beta-BHC	10.000	0.000	100.0#	0	-3.44#
7		delta-BHC	10.000	0.000	100.0#	0	-3.70#

Evaluate Continuing Calibration Report

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-31.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 10 Sep 2020 10:59 am
Operator : PEST15:el
Sample   : cicvchlor,42e,,10043
Misc   : wg1413084,ical
ALS Vial : 31   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 16:31:35 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Sep 22 16:31:10 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
8		Heptachlor	10.000	0.000	100.0#	0	-3.76#
9		Aldrin	10.000	0.000	100.0#	0	-4.05#
10		Alachlor	10.000	0.000	100.0#	0	-3.94#
11		Chlorpyrifos	10.000	0.000	100.0#	0	-4.22#
12		Heptachlor Epoxide	10.000	0.000	100.0#	0	-4.52#
13		gamma-Chlordane (trans)	10.000	0.000	100.0#	0	-4.66#
14		alpha-Chlordane (cis)	10.000	0.000	100.0#	0	-4.78#
15		4,4'-DDE	10.000	0.000	100.0#	0	-4.89#
16		Endosulfan I	10.000	0.000	100.0#	0	-4.82#
17		Dieldrin	10.000	0.000	100.0#	0	-5.03#
18		Endrin	10.000	0.000	100.0#	0	-5.25#
19		4,4'-DDD	10.000	0.000	100.0#	0	-5.32#
20		Endosulfan II	10.000	0.000	100.0#	0	-5.40#
21		4,4'-DDT	10.000	0.000	100.0#	0	-5.54#
22		Endrin Aldehyde	10.000	0.000	100.0#	0	-5.63#
23		Methoxychlor	10.000	0.000	100.0#	0	-6.00#
24		Mirex	10.000	0.000	100.0#	0	-6.17#
25		Endosulfan Sulfate	10.000	0.000	100.0#	0	-5.82#
26		Endrin Ketone	10.000	0.000	100.0#	0	-6.18#
27	s	Decachlorobiphenyl	10.000	0.000	100.0#	0	-6.94#
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	0	-2.01#
34	l2	toxaphene-1	2000.000	0.000	100.0#	0	-5.36#
35	l2	toxaphene-2	2000.000	0.000	100.0#	0	-5.39#
36	l2	toxaphene-4	2000.000	0.000	100.0#	0	-5.64#
37	l2	toxaphene-5	2000.000	0.000	100.0#	0	-5.99#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-31.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 10:59 am
Operator : PEST15:el
Sample : cicvchlor,42e,,10043
Misc : wg1413084,ical
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 16:31:35 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Sep 22 16:31:10 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.919	2.007	108.2E6	67274559	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-31.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 10:59 am
Operator : PEST15:el
Sample : cicvchlor,42e,,10043
Misc : wg1413084,ical
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 16:31:35 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Sep 22 16:31:10 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d	
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d	
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d	
29) l1	chlordane-1	3.323	3.636	126.7E6	85922948	764.218	750.173	
30) l1	chlordane-3	3.735	4.168	157.7E6	100.2E6	878.002	897.269	
31) l1	chlordane-4	4.220	4.735	518.0E6	352.7E6	941.523	1185.742	
32) l1	chlordane-5	4.313	4.776	870.0E6	243.9E6	1040.443	831.924	
Sum	chlordane-1			1672.3E6	782.7E6	N.D.	N.D.	D
Average	chlordane-1					906.046	916.277	
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d	
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d	
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d	
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d	
Sum	toxaphene-1			0	0	N.D.	N.D.	
Average	toxaphene-1					0.000	0.000	

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.	
Average	toxaphene-1					0.000	0.000	

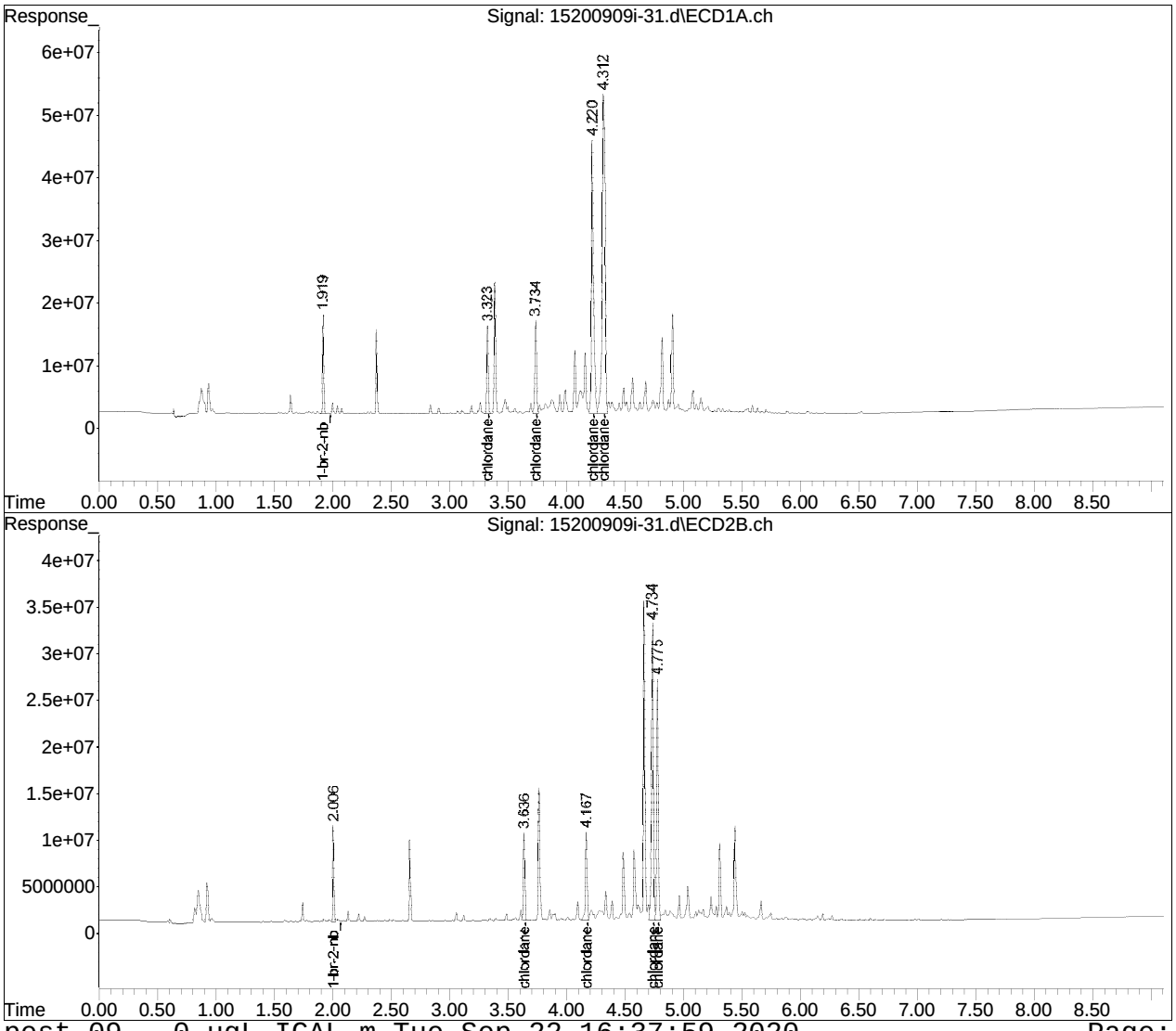
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-31.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 10:59 am
Operator : PEST15:el
Sample : cicvchlor,42e,,10043
Misc : wg1413084,ical
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 22 16:31:35 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Sep 22 16:31:10 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest15\200909ICAL\	QMethod	: P15_pest_09_09_20_ugL_IC
Data File	: 15200909i-31.d	Operator	: PEST15:el
Date Inj'd	: 9/10/2020 10:59 am	Instrument	: Pest 15
Sample	: cicvchlor,42e,,10043	Quant Date	: 9/22/2020 4:31 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-21.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 1:42 am
Operator : PEST15:el
Sample : il2tox,42e,,10041
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 08:59:06 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:58:58 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.921	2.008	110.1E6	67594391	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-21.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 1:42 am
Operator : PEST15:el
Sample : il2tox,42e,,10041
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 08:59:06 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:58:58 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.
Average		chlordane-1					0.000	0.000
34)	l2	toxaphene-1	4.946	5.363	4051649	1053600	19.678M1	19.713M2
35)	l2	toxaphene-2	5.031	5.392	4536361	1642589	19.673M1	19.907M4
36)	l2	toxaphene-4	5.418	5.636	2344069	1999959	20.935M4	20.557M4
37)	l2	toxaphene-5	5.487	5.988	2798920	1617000	20.931M4	19.124
	Sum	toxaphene-1			13730999	6313149	81.218	79.301
Average		toxaphene-1					20.304	19.825

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			13730999	6313149	81.218	79.301
Average		toxaphene-1					20.304	19.825

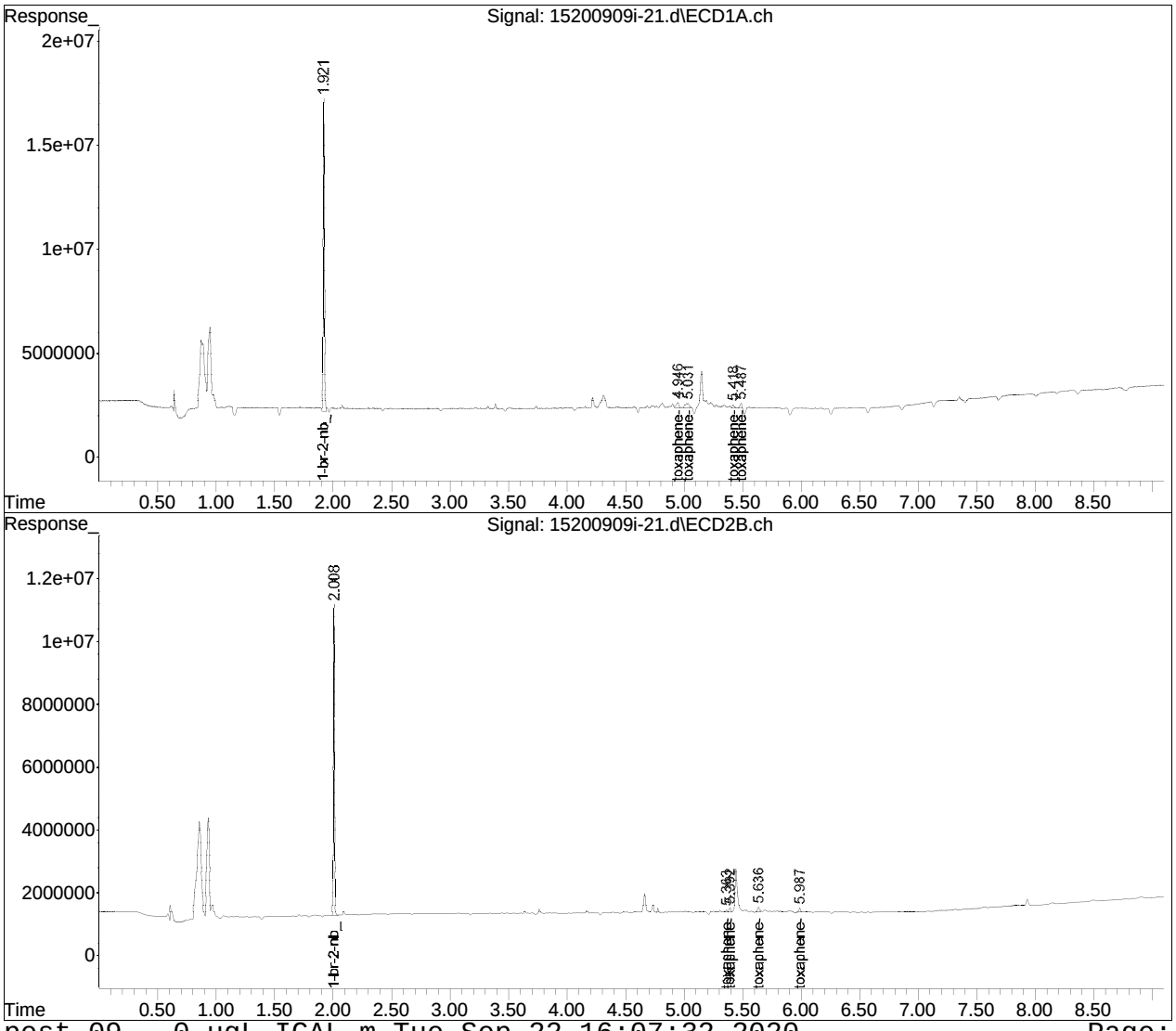
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-21.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 1:42 am
Operator : PEST15:el
Sample : il2tox,42e,,10041
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 10 08:59:06 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:58:58 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

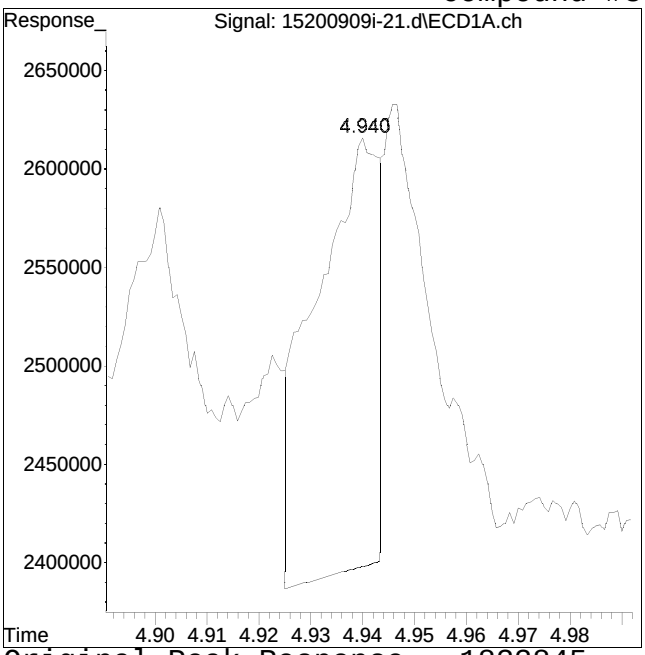


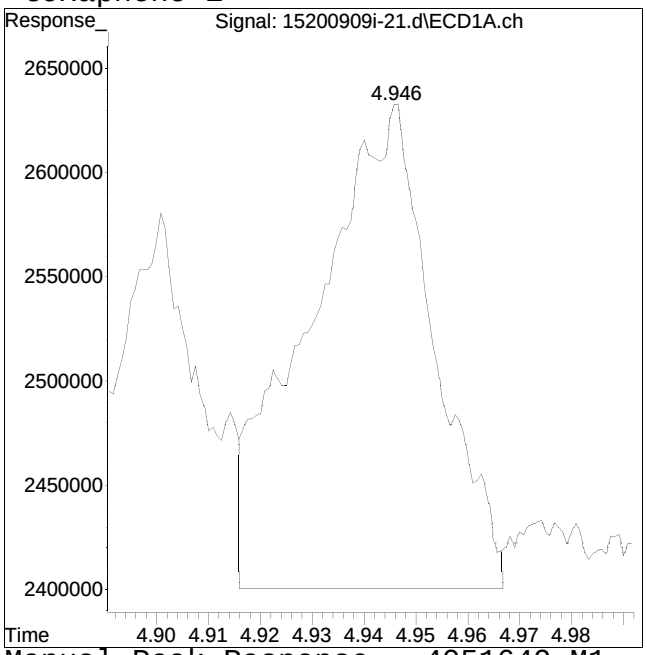
Manual Integration Report

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-21.d
Date Inj'd : 9/10/2020 1:42 am
Sample : il2tox,42e,,10041

QMethod : P15_pest_09_09_20_ugL_IC
Operator : PEST15:el
Instrument : Pest 15
Quant Date : 9/10/2020 8:58 am

Compound #34: toxaphene-1





Original Peak Response = 1833845 Manual Peak Response = 4051649 M1

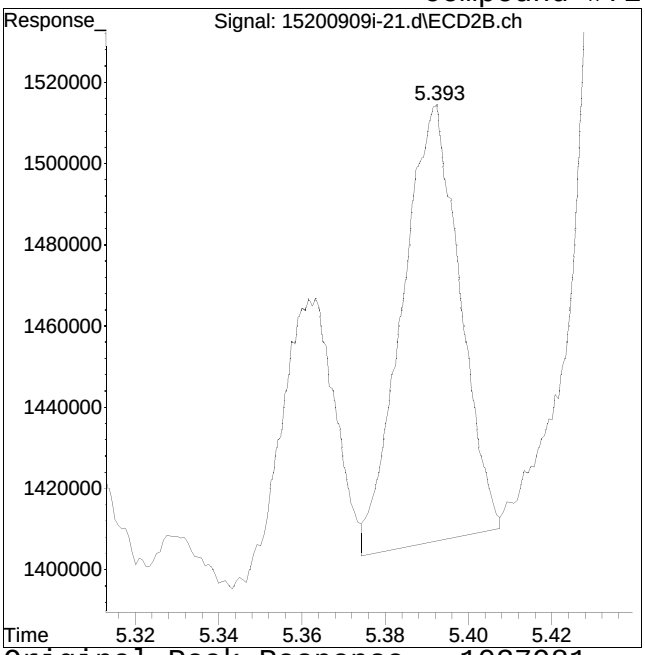
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

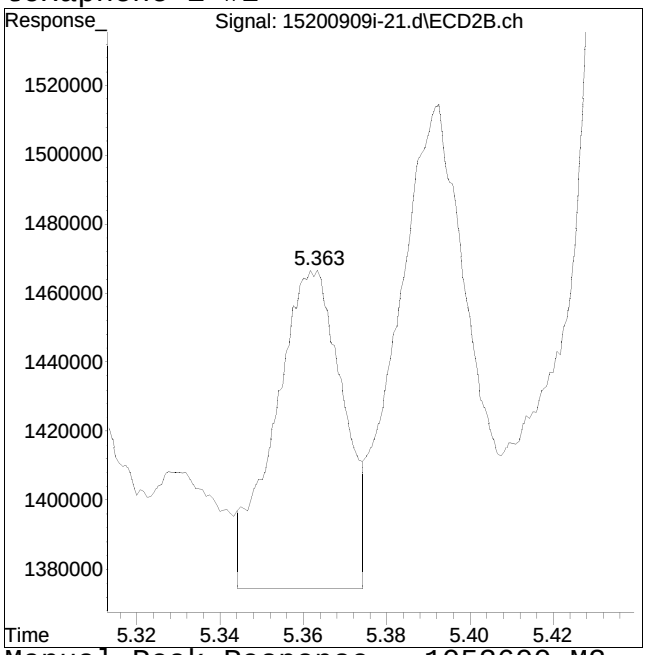
Manual Integration Report

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-21.d
Date Inj'd : 9/10/2020 1:42 am
Sample : il2tox,42e,,10041

QMethod : P15_pest_09_09_20_ugL_IC
Operator : PEST15:el
Instrument : Pest 15
Quant Date : 9/10/2020 8:58 am

Compound #72: toxaphene-1 #2





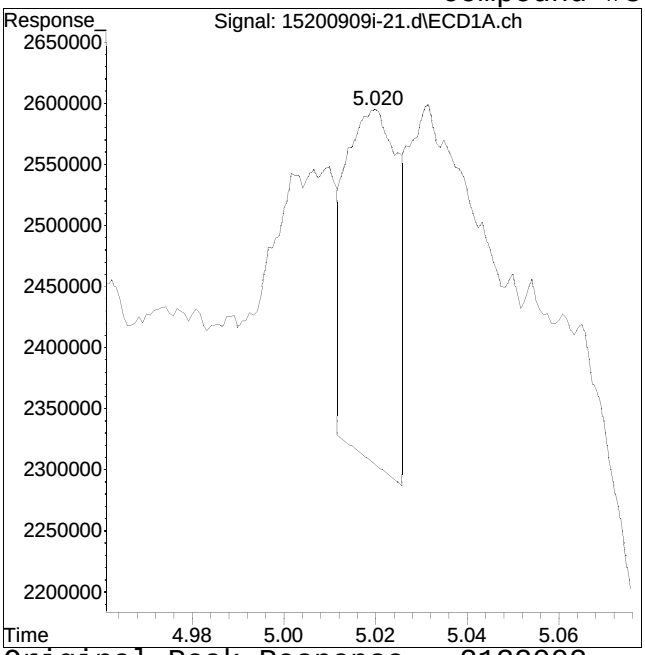
Original Peak Response = 1037981 Manual Peak Response = 1053600 M2
M2 = Peak not found by automatic integration algorithm.

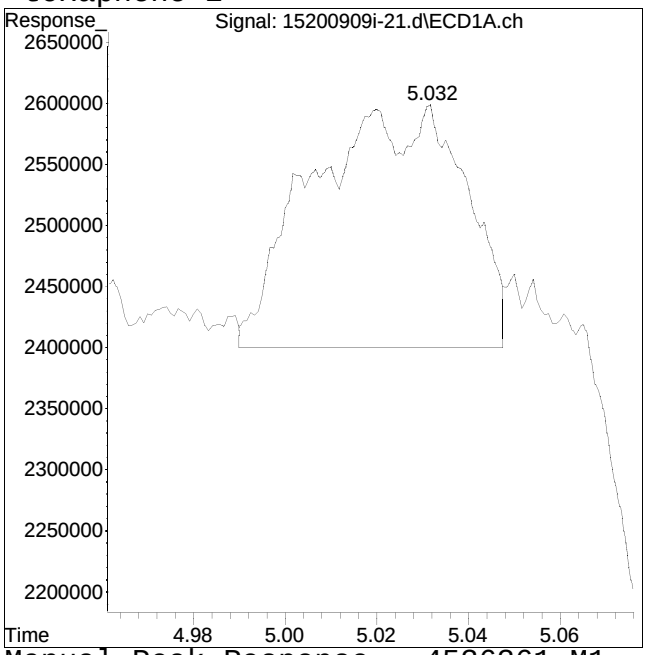
Manual Integration Report

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-21.d
Date Inj'd : 9/10/2020 1:42 am
Sample : il2tox,42e,,10041

QMethod : P15_pest_09_09_20_ugL_IC
Operator : PEST15:el
Instrument : Pest 15
Quant Date : 9/10/2020 8:58 am

Compound #35: toxaphene-2





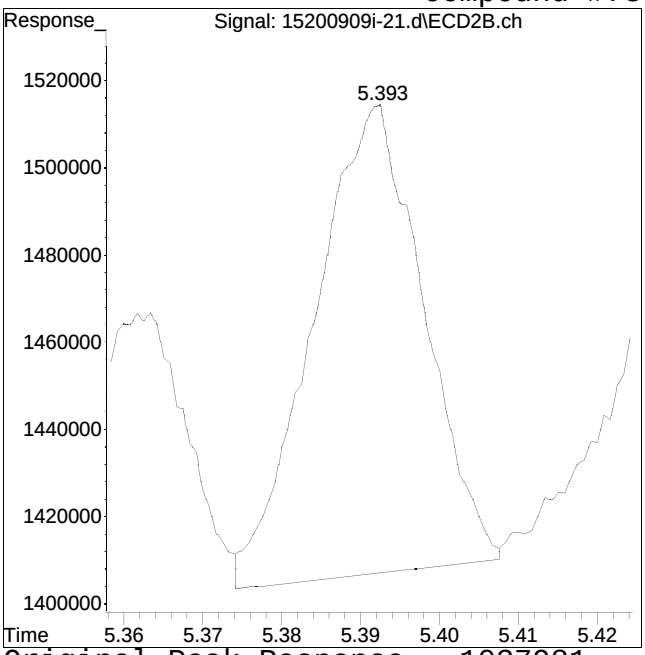
Original Peak Response = 2132002 Manual Peak Response = 4536361 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

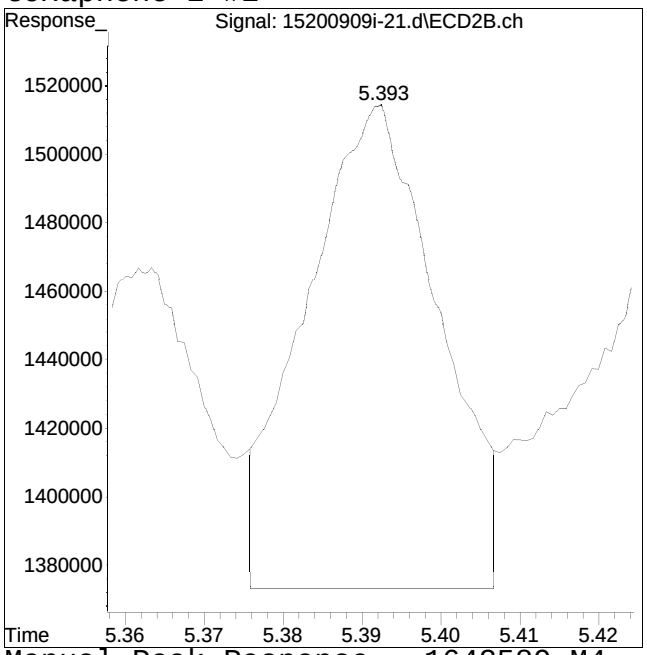
Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-21.d
Date Inj'd : 9/10/2020 1:42 am
Sample : il2tox,42e,,10041

QMethod : P15_pest_09_09_20_ugL_IC
Operator : PEST15:el
Instrument : Pest 15
Quant Date : 9/10/2020 8:58 am

Compound #73: toxaphene-2 #2



Original Peak Response = 1037981



Manual Peak Response = 1642589 M4

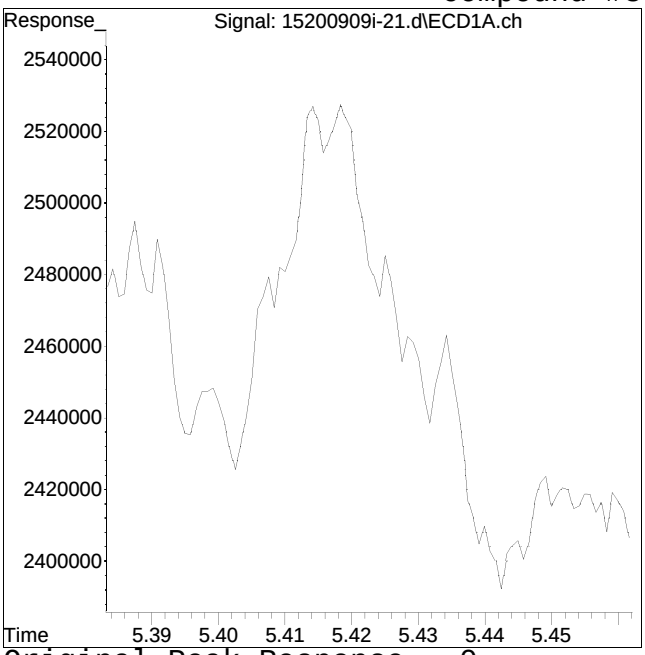
M4 = Poor automated baseline construction.

Manual Integration Report

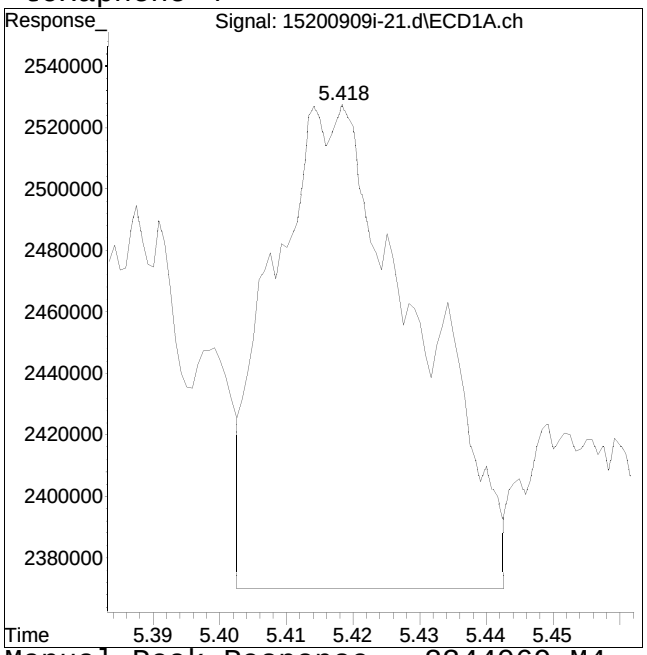
Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-21.d
Date Inj'd : 9/10/2020 1:42 am
Sample : il2tox,42e,,10041

QMethod : P15_pest_09_09_20_ugL_IC
Operator : PEST15:el
Instrument : Pest 15
Quant Date : 9/10/2020 8:58 am

Compound #36: toxaphene-4



Original Peak Response = 0



Manual Peak Response = 2344069 M4

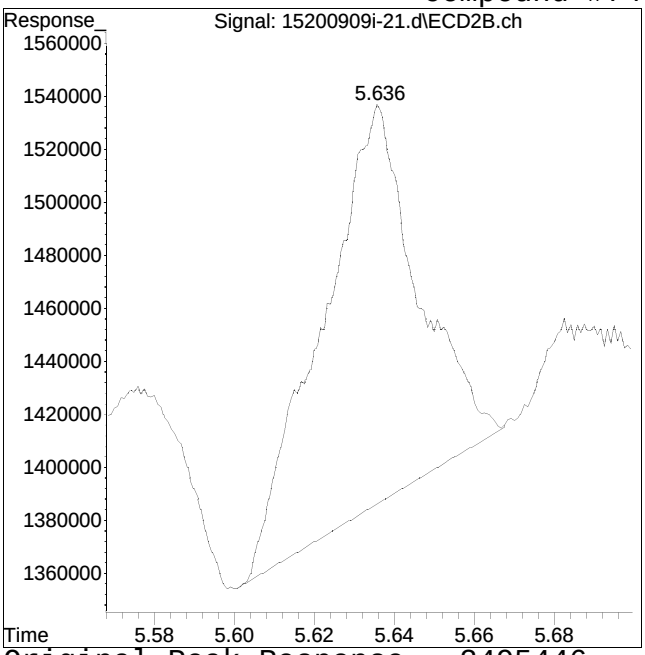
M4 = Poor automated baseline construction.

Manual Integration Report

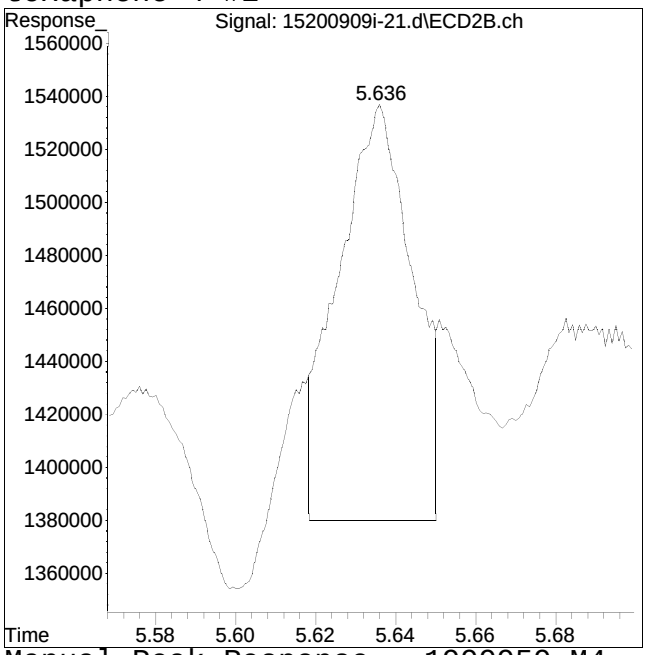
Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-21.d
Date Inj'd : 9/10/2020 1:42 am
Sample : il2tox,42e,,10041

QMethod : P15_pest_09_09_20_ugL_IC
Operator : PEST15:el
Instrument : Pest 15
Quant Date : 9/10/2020 8:58 am

Compound #74: toxaphene-4 #2



Original Peak Response = 2495446



Manual Peak Response = 1999959 M4

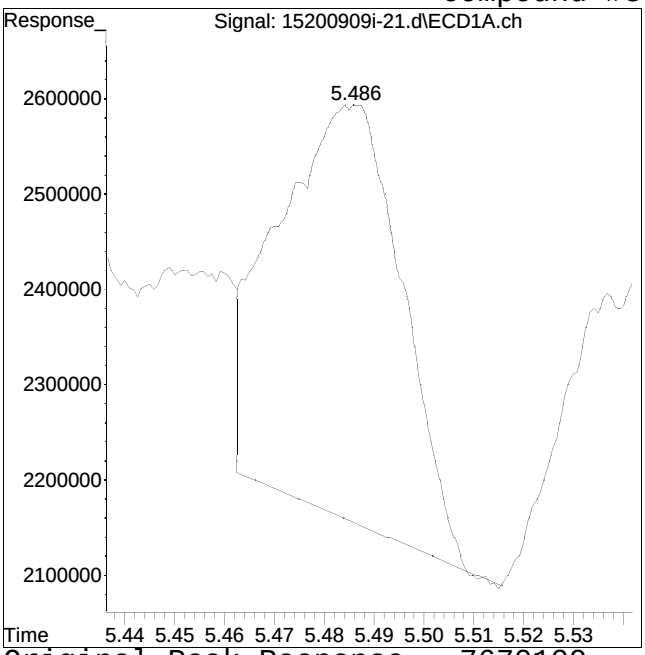
M4 = Poor automated baseline construction.

Manual Integration Report

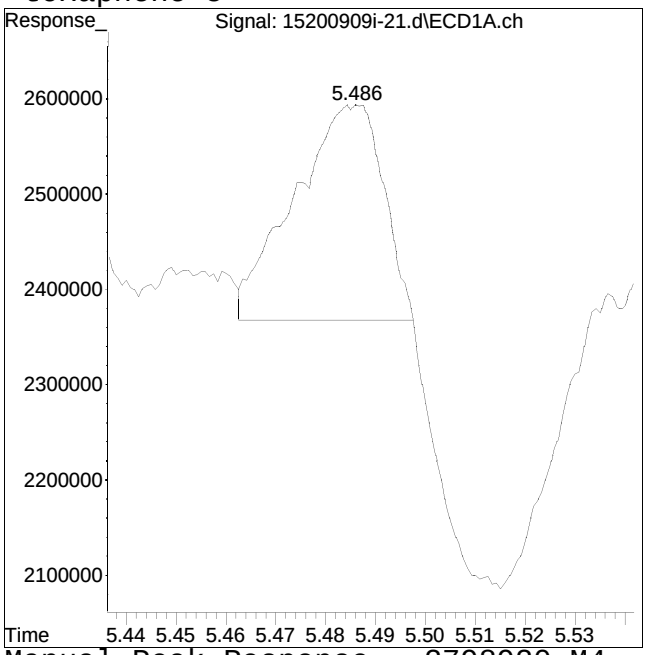
Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-21.d
Date Inj'd : 9/10/2020 1:42 am
Sample : il2tox,42e,,10041

QMethod : P15_pest_09_09_20_ugL_IC
Operator : PEST15:el
Instrument : Pest 15
Quant Date : 9/10/2020 8:58 am

Compound #37: toxaphene-5



Original Peak Response = 7670109



Manual Peak Response = 2798920 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-22.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 1:55 am
Operator : PEST15:el
Sample : il7tox,42e,,10038
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 17 10:58:20 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:47:49 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.920	2.008	110.8E6	67073647	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-22.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 1:55 am
Operator : PEST15:el
Sample : il7tox,42e,,10038
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 17 10:58:20 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:47:49 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.942	5.363	442.2E6	102.3E6	2144.821	1986.279
35) l2	toxaphene-2	5.031	5.392	607.4E6	159.9E6	2667.921M1	1987.412
36) l2	toxaphene-4	5.418	5.637	313.2E6	184.5E6	2297.295	1926.643
37) l2	toxaphene-5	5.486	5.987	289.4E6	167.5E6	1909.091	1995.911
Sum	toxaphene-1			1652.2E6	614.1E6	9019.128	7896.245
Average	toxaphene-1					2254.782	1974.061

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			1652.2E6	614.1E6	9019.128	7896.245
Average	toxaphene-1					2254.782	1974.061

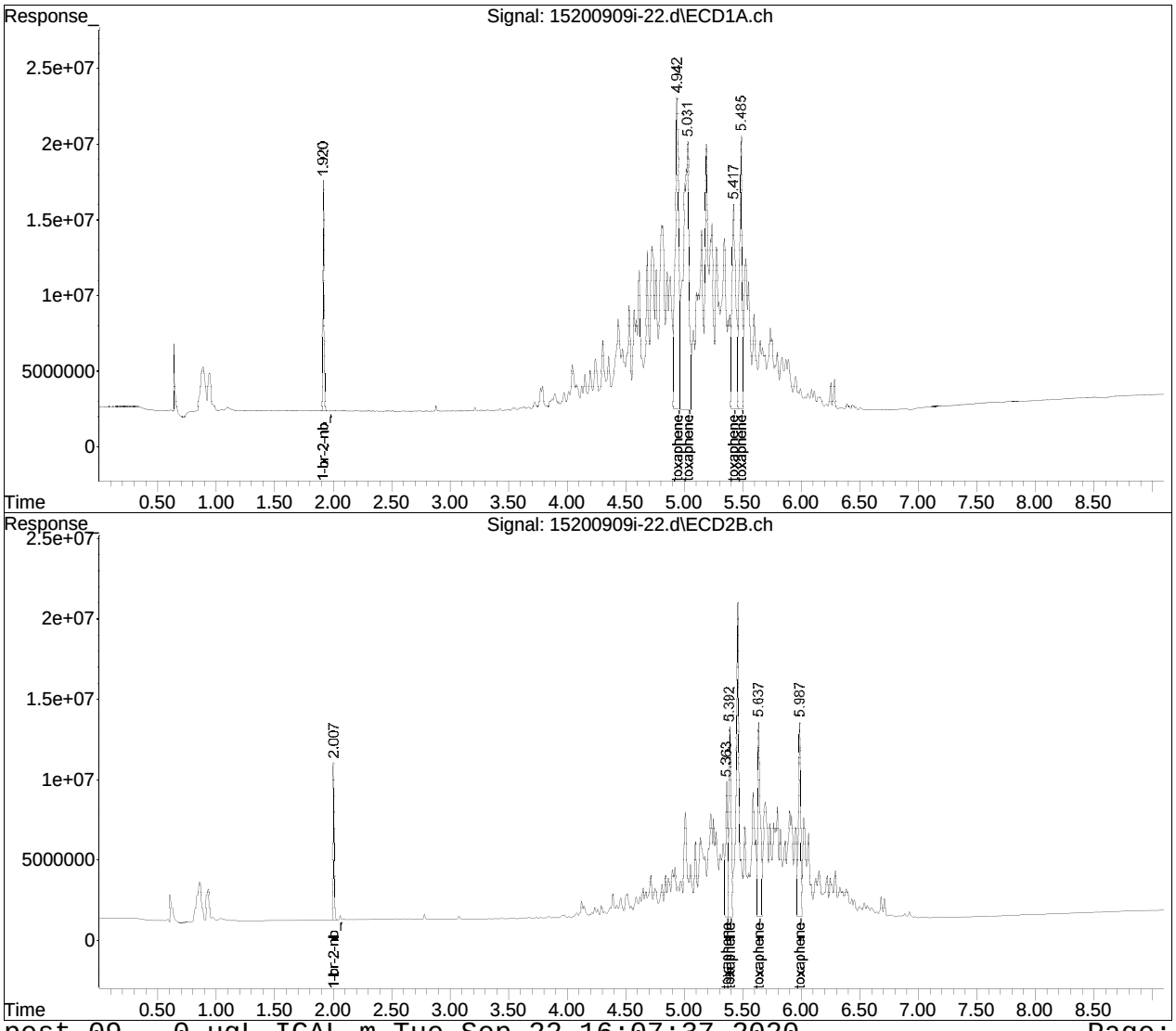
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-22.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 1:55 am
Operator : PEST15:el
Sample : il7tox,42e,,10038
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 17 10:58:20 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:47:49 2020
Response via : Initial Calibration
Integrator: ChemStation

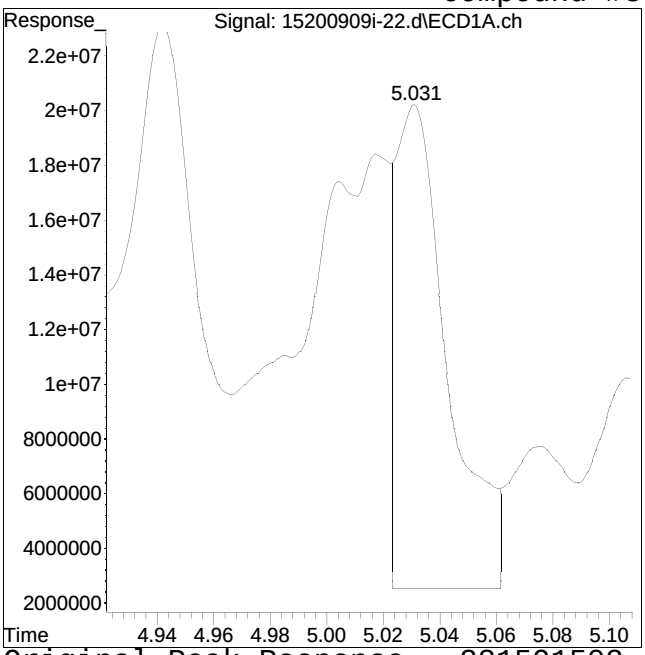
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

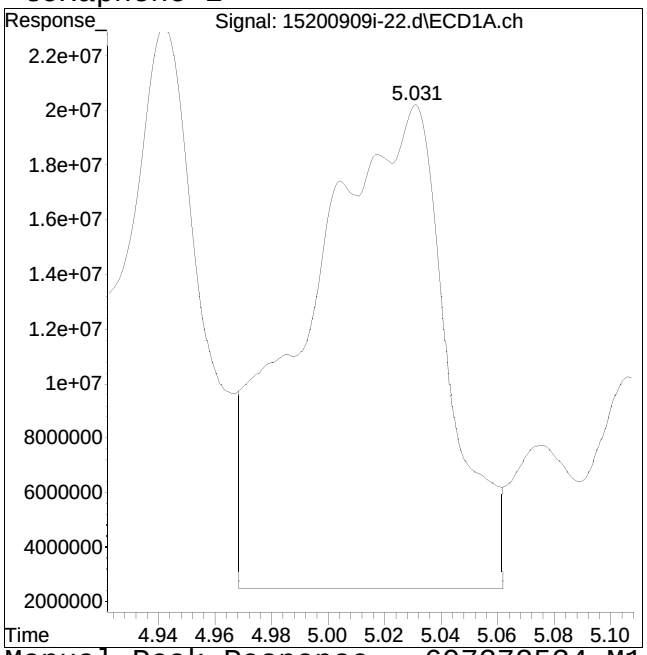


Manual Integration Report

Data Path	: I:\Pest15\200909ICAL\	QMethod	: P15_pest_09_09_20_ugL_IC
Data File	: 15200909i-22.d	Operator	: PEST15:el
Date Inj'd	: 9/10/2020 1:55 am	Instrument	: Pest 15
Sample	: il7tox,42e,,10038	Quant Date	: 9/10/2020 8:47 am

Compound #35: toxaphene-2





Original Peak Response = 231591502 Manual Peak Response = 607372534 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-23.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 2:08 am
Operator : PEST15:el
Sample : il8tox,42e,, 10040
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 17 10:58:51 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:57:11 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.921	2.008	123.7E6	72380496	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-23.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 2:08 am
Operator : PEST15:el
Sample : il8tox,42e,, 10040
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 17 10:58:51 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:57:11 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
		Sum chlordane-1			0	0	N.D.	N.D.
		Average chlordane-1					0.000	0.000
34)	l2	toxaphene-1	4.943	5.364	1189.5E6	300.4E6	5009.114	5249.280
35)	l2	toxaphene-2	5.032	5.392	1629.4E6	454.2E6	6035.087M1	5140.832
36)	l2	toxaphene-4	5.419	5.637	979.5E6	529.6E6	5848.165	5083.761
37)	l2	toxaphene-5	5.486	5.987	903.2E6	473.4E6	5425.102	5229.131
		Sum toxaphene-1			4701.6E6	1757.7E6	22317.468	20703.004
		Average toxaphene-1					5579.367	5175.751

SemiQuant Compounds - Not Calibrated on this Instrument

		Sum toxaphene-1			4701.6E6	1757.7E6	22317.468	20703.004
		Average toxaphene-1					5579.367	5175.751

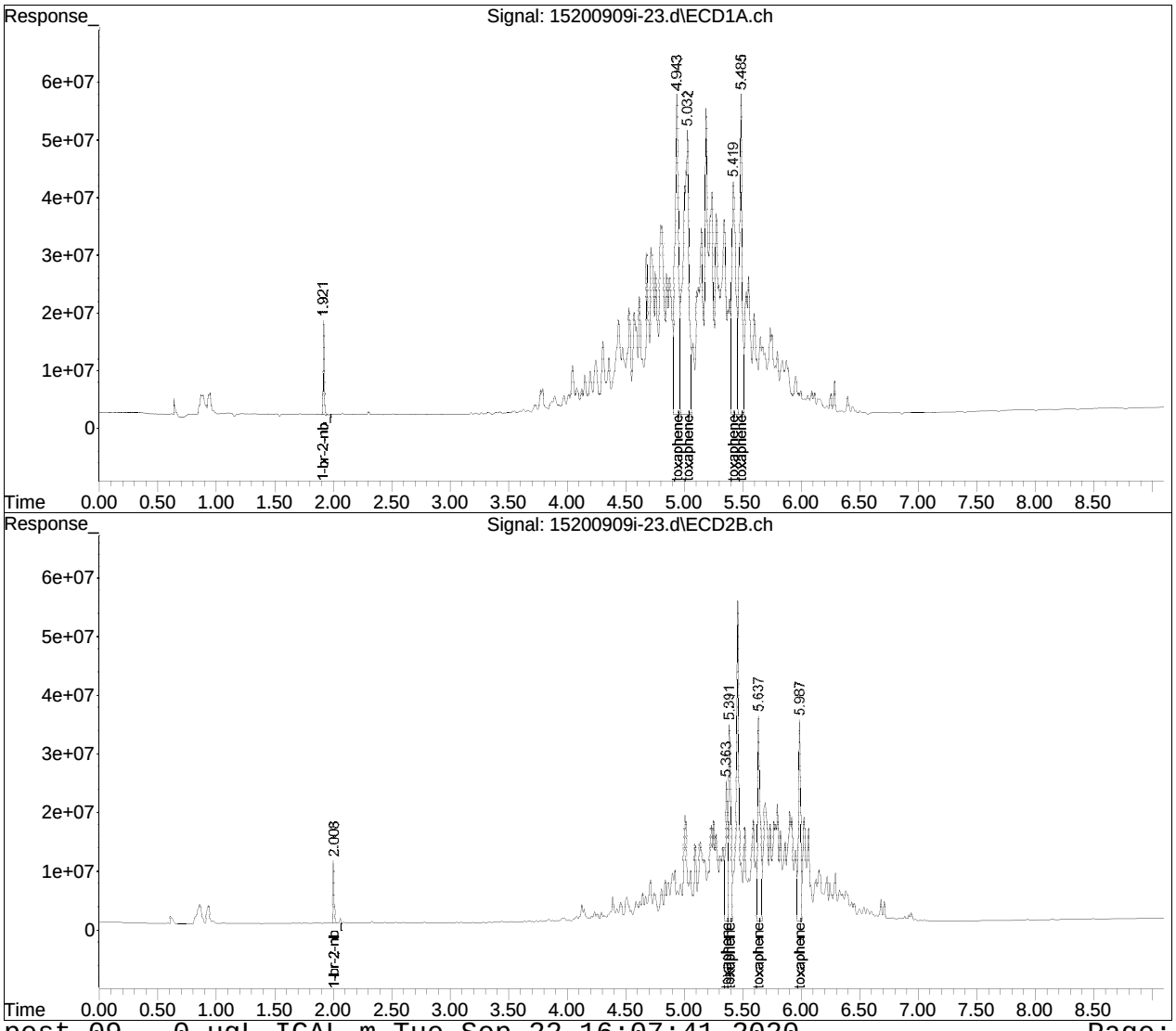
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-23.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 2:08 am
Operator : PEST15:el
Sample : il8tox,42e,, 10040
Misc : wg1413084,ical (Sig #1); ical (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 17 10:58:51 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 10 08:57:11 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

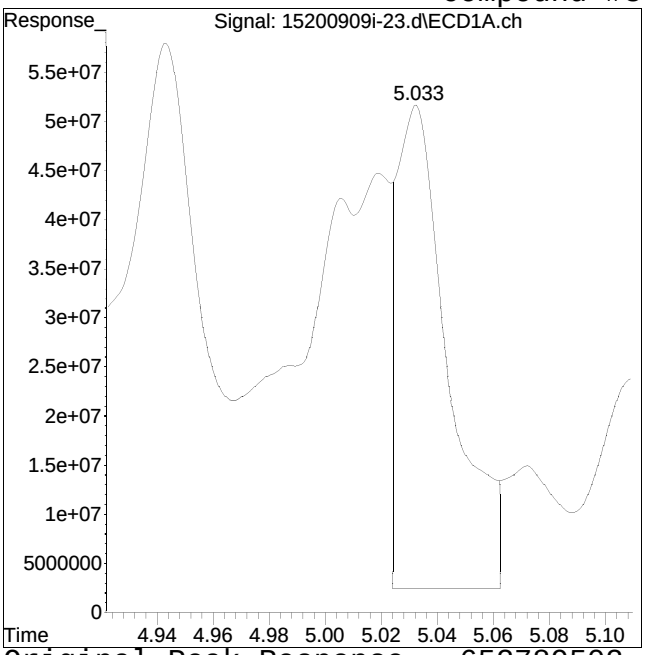


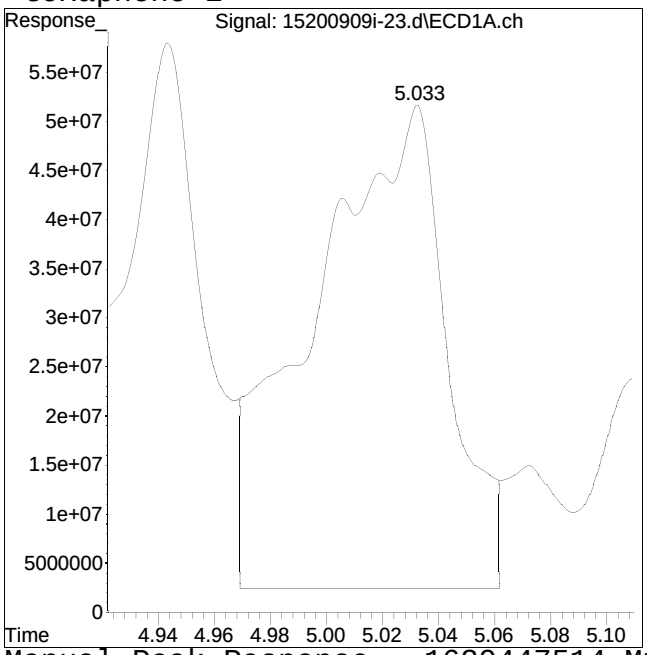
Manual Integration Report

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-23.d
Date Inj'd : 9/10/2020 2:08 am
Sample : il8tox,42e,, 10040

QMethod : P15_pest_09_09_20_ugL_IC
Operator : PEST15:el
Instrument : Pest 15
Quant Date : 9/10/2020 8:57 am

Compound #35: toxaphene-2





Original Peak Response = 652789502 Manual Peak Response = 1629447514 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-33.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 10 Sep 2020 11:25 am
Operator : PEST15:el
Sample   : cicvtox,42e,,10042
Misc   : wg1413084,ical
ALS Vial : 33   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 17 11:01:41 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 17 11:01:05 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	98	0.00
34	l2	toxaphene-1	2000.000	1968.417	1.6	94	0.00
35	l2	toxaphene-2	2000.000	1961.308	1.9	94	0.00
36	l2	toxaphene-4	2000.000	2086.958	-4.3	111	0.00
37	l2	toxaphene-5	2000.000	1954.175	2.3	104	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	101	0.00
34	l2	toxaphene-1	2000.000	1792.399	10.4	93	0.00
35	l2	toxaphene-2	2000.000	1879.130	6.0	97	0.00
36	l2	toxaphene-4	2000.000	1820.614	9.0	96	0.00
37	l2	toxaphene-5	2000.000	1909.073	4.5	96	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	0	-1.92#
2	s	2,4,5,6-Tetrachloro-m-xylen	10.000	0.000	100.0#	0	-2.41#
3		Hexachlorobenzene	10.000	0.000	100.0#	0	-2.68#
4		alpha-BHC	10.000	0.000	100.0#	0	-2.79#
5		gamma-BHC (lindane)	10.000	0.000	100.0#	0	-3.02#
6		beta-BHC	10.000	0.000	100.0#	0	-3.08#
7		delta-BHC	10.000	0.000	100.0#	0	-3.22#
8		Heptachlor	10.000	0.000	100.0#	0	-3.39#
9		Aldrin	10.000	0.000	100.0#	0	-3.63#
10		Alachlor	10.000	0.000	100.0#	0	-3.74#
11		Chlorpyrifos	10.000	0.000	100.0#	0	-3.82#
12		Heptachlor Epoxide	10.000	0.000	100.0#	0	-4.12#
13		gamma-Chlordane (trans)	10.000	0.000	100.0#	0	-4.22#

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-33.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 10 Sep 2020 11:25 am
Operator : PEST15:el
Sample   : cicvtox,42e,,10042
Misc   : wg1413084,ical
ALS Vial : 33   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 17 11:01:41 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 17 11:01:05 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)	10.000	0.000	100.0#	0	-4.32#
15		4,4'-DDE	10.000	0.000	100.0#	0	-4.38#
16		Endosulfan I	10.000	0.000	100.0#	0	-4.43#
17		Dieldrin	10.000	0.000	100.0#	0	-4.61#
18		Endrin	10.000	0.000	100.0#	0	-4.79#
19		4,4'-DDD	10.000	0.000	100.0#	0	-4.84#
20		Endosulfan II	10.000	0.000	100.0#	0	-4.95#
21		4,4'-DDT	10.000	0.000	100.0#	0	-5.04#
22		Endrin Aldehyde	10.000	0.000	100.0#	0	-5.25#
23		Methoxychlor	10.000	0.000	100.0#	0	-5.39#
24		Mirex	10.000	0.000	100.0#	0	-5.48#
25		Endosulfan Sulfate	10.000	0.000	100.0#	0	-5.56#
26		Endrin Ketone	10.000	0.000	100.0#	0	-5.75#
27	s	Decachlorobiphenyl	10.000	0.000	100.0#	0	-6.40#
28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	0	-1.92#
29	l1	chlordane-1	1000.000	0.000	100.0#	0	-3.32#
30	l1	chlordane-3	1000.000	0.000	100.0#	0	-3.73#
31	l1	chlordane-4	1000.000	0.000	100.0#	0	-4.22#
32	l1	chlordane-5	1000.000	0.000	100.0#	0	-4.32#

Signal #2

1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	0	-2.01#
2	s	2,4,5,6-Tetrachloro-m-xyl	10.000	0.000	100.0#	0	-2.63#
3		Hexachlorobenzene	10.000	0.000	100.0#	0	-2.99#
4		alpha-BHC	10.000	0.000	100.0#	0	-3.09#
5		gamma-BHC (lindane)	10.000	0.000	100.0#	0	-3.38#
6		beta-BHC	10.000	0.000	100.0#	0	-3.44#
7		delta-BHC	10.000	0.000	100.0#	0	-3.70#

Evaluate Continuing Calibration Report

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-33.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 10 Sep 2020 11:25 am
Operator : PEST15:el
Sample   : cicvtox,42e,,10042
Misc   : wg1413084,ical
ALS Vial : 33   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 17 11:01:41 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 17 11:01:05 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
8		Heptachlor	10.000	0.000	100.0#	0	-3.76#
9		Aldrin	10.000	0.000	100.0#	0	-4.05#
10		Alachlor	10.000	0.000	100.0#	0	-3.94#
11		Chlorpyrifos	10.000	0.000	100.0#	0	-4.22#
12		Heptachlor Epoxide	10.000	0.000	100.0#	0	-4.52#
13		gamma-Chlordane (trans)	10.000	0.000	100.0#	0	-4.66#
14		alpha-Chlordane (cis)	10.000	0.000	100.0#	0	-4.78#
15		4,4'-DDE	10.000	0.000	100.0#	0	-4.89#
16		Endosulfan I	10.000	0.000	100.0#	0	-4.82#
17		Dieldrin	10.000	0.000	100.0#	0	-5.03#
18		Endrin	10.000	0.000	100.0#	0	-5.25#
19		4,4'-DDD	10.000	0.000	100.0#	0	-5.32#
20		Endosulfan II	10.000	0.000	100.0#	0	-5.40#
21		4,4'-DDT	10.000	0.000	100.0#	0	-5.54#
22		Endrin Aldehyde	10.000	0.000	100.0#	0	-5.63#
23		Methoxychlor	10.000	0.000	100.0#	0	-6.00#
24		Mirex	10.000	0.000	100.0#	0	-6.17#
25		Endosulfan Sulfate	10.000	0.000	100.0#	0	-5.82#
26		Endrin Ketone	10.000	0.000	100.0#	0	-6.18#
27	s	Decachlorobiphenyl	10.000	0.000	100.0#	0	-6.94#
28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	0	-2.01#
29	l1	chlordane-1	1000.000	0.000	100.0#	0	-3.64#
30	l1	chlordane-3	1000.000	0.000	100.0#	0	-4.17#
31	l1	chlordane-4	1000.000	0.000	100.0#	0	-4.74#
32	l1	chlordane-5	1000.000	0.000	100.0#	0	-4.78#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-33.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 11:25 am
Operator : PEST15:el
Sample : cicvtox,42e,,10042
Misc : wg1413084,ical
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 17 11:01:41 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 17 11:01:05 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.920	2.008	109.1E6	67441986	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-33.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 11:25 am
Operator : PEST15:el
Sample : cicvtox,42e,,10042
Misc : wg1413084,ical
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 17 11:01:41 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 17 11:01:05 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.
Average		chlordane-1					0.000	0.000
34)	l2	toxaphene-1	4.944	5.364	417.4E6	95582012	1968.417	1792.399
35)	l2	toxaphene-2	5.032	5.392	569.7E6	154.7E6	1961.308M1	1879.130
36)	l2	toxaphene-4	5.420	5.638	349.1E6	176.7E6	2086.958	1820.614
37)	l2	toxaphene-5	5.488	5.988	301.8E6	161.1E6	1954.175	1909.073
	Sum	toxaphene-1			1638.1E6	588.1E6	7970.859	7401.217
Average		toxaphene-1					1992.715	1850.304

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			1638.1E6	588.1E6	7970.859	7401.217
Average		toxaphene-1					1992.715	1850.304

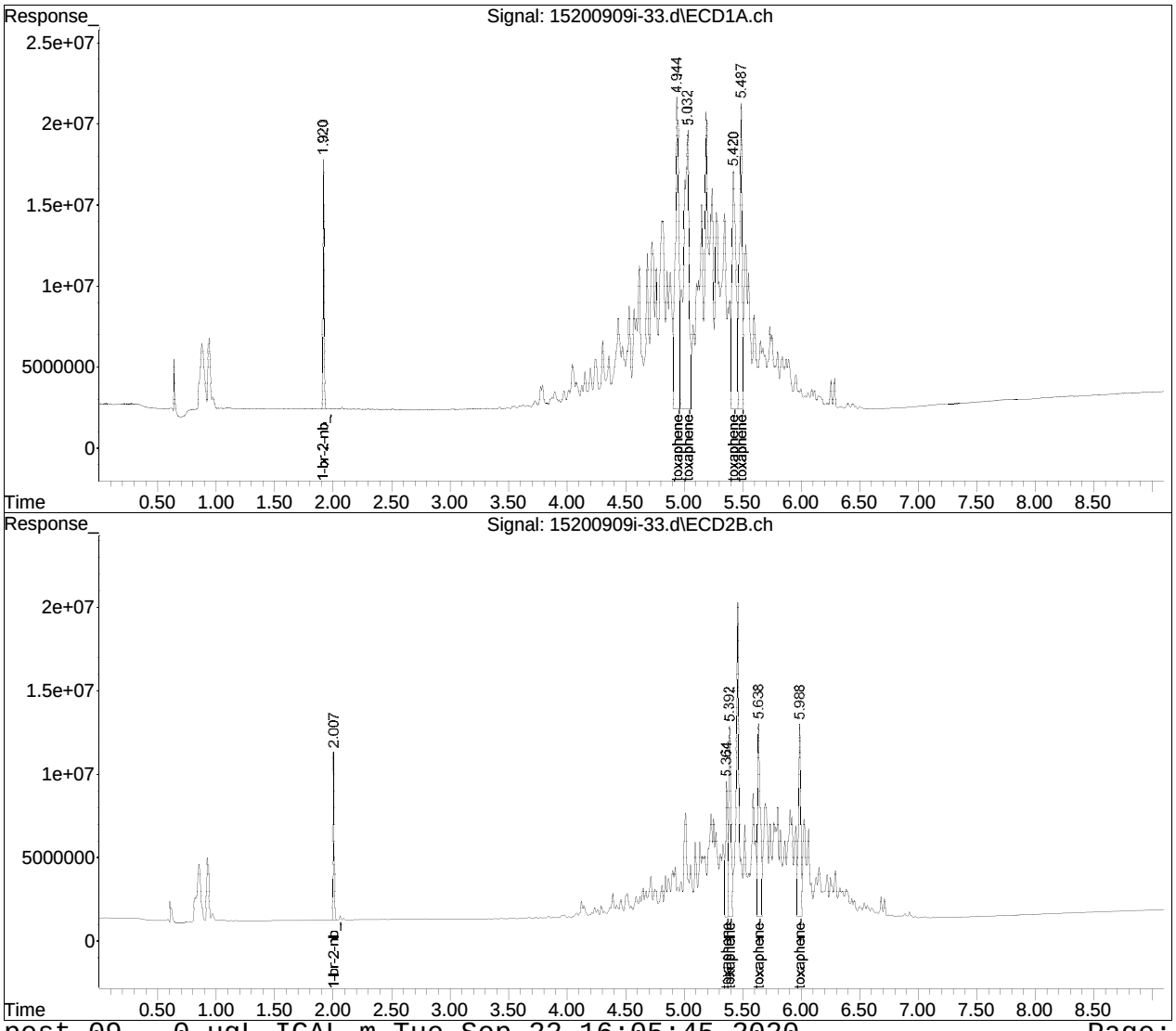
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-33.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Sep 2020 11:25 am
Operator : PEST15:el
Sample : cicvtox,42e,,10042
Misc : wg1413084,ical
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Sep 17 11:01:41 2020
Quant Method : I:\Pest15\200909ICAL\P15_pest_09_09_20_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Sep 17 11:01:05 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

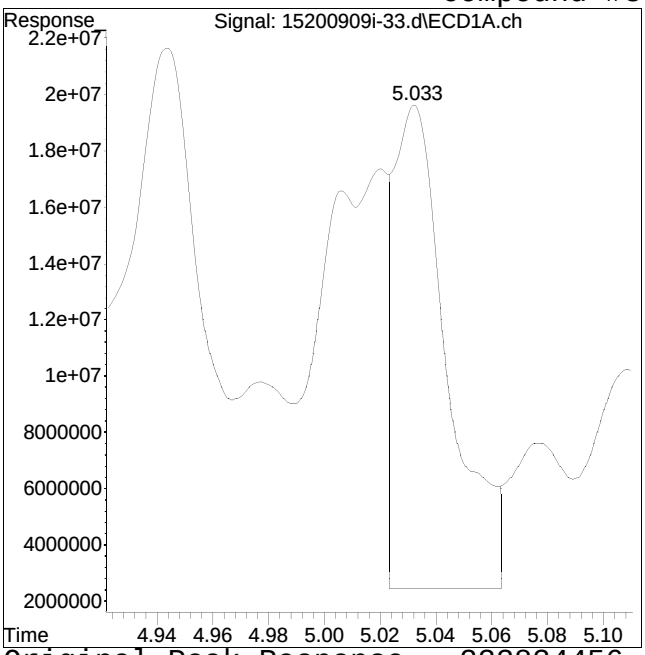


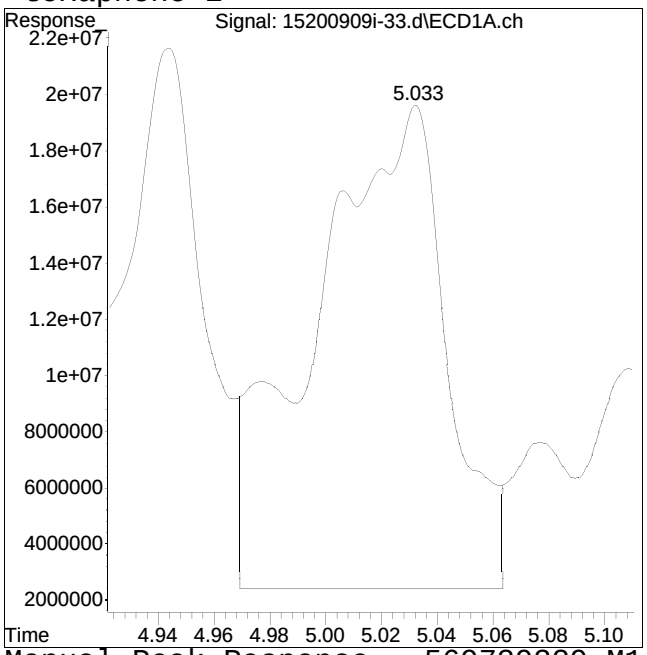
Manual Integration Report

Data Path : I:\Pest15\200909ICAL\
Data File : 15200909i-33.d
Date Inj'd : 9/10/2020 11:25 am
Sample : cicvtox,42e,,10042

QMethod : P15_pest_09_09_20_ugL_IC
Operator : PEST15:el
Instrument : Pest 15
Quant Date : 9/17/2020 11:01 am

Compound #35: toxaphene-2





Original Peak Response = 233834456 Manual Peak Response = 569739329 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Continuing Calibration

Calibration Verification Summary
Form 7
Pesticides

Client	: Impact Environmental	**Lab Number**	: L2046790		
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209		
Instrument ID	: PEST15	**Calibration Date**	: 10/27/20 09:02		
Lab File ID	: 15201027b-02	**Init. Calib. Date(s)**	: 09/09/20	09/10/20	
Sample No	: WG1426984-1	**Init. Calib. Times**	: 22:16	16:21	
Channel	: A				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	25	25	-	0	20	131	0
2,4,5,6-Tetrachloro-m-xylen	50	55.273	-	-10.5	20	150	0
Hexachlorobenzene	50	56.372	-	-12.7	20	159	0
alpha-BHC	50	54.688	-	-9.4	20	137	0
gamma-BHC (lindane)	50	51.163	-	-2.3	20	131	0
beta-BHC	50	44.427	-	11.1	20	123	0
delta-BHC	50	54.047	-	-8.1	20	136	0
Heptachlor	50	48.464	-	3.1	20	129	0
Aldrin	50	54.615	-	-9.2	20	138	0
Alachlor	50	51.731	-	-3.5	20	145	0
Chlorpyrifos	50	44.73	-	10.5	20	137	0
Heptachlor Epoxide	50	48.79	-	2.4	20	132	0
gamma-Chlordane (trans)	50	48.81	-	2.4	20	130	0
alpha-Chlordane (cis)	50	45.608	-	8.8	20	127	0
4,4'-DDE	50	52.465	-	-4.9	20	132	0
Endosulfan I	50	50.041	-	-0.1	20	132	0
Dieldrin	50	54.702	-	-9.4	20	141	0
Endrin	50	50.804	-	-1.6	20	132	0
4,4'-DDD	50	53.798	-	-7.6	20	135	0
Endosulfan II	50	45.685	-	8.6	20	123	0
4,4'-DDT	50	46.856	-	6.3	20	121	0
Endrin Aldehyde	50	40.747	-	18.5	20	111	0
Methoxychlor	50	41.273	-	17.5	20	118	0
Mirex	50	40.01	-	20	20	126	0
Endosulfan Sulfate	50	46.179	-	7.6	20	129	0
Endrin Ketone	50	44.876	-	10.2	20	123	0
Decachlorobiphenyl	50	42.521	-	15	20	127	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Impact Environmental	**Lab Number**	: L2046790		
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209		
Instrument ID	: PEST15	**Calibration Date**	: 10/27/20 09:02		
Lab File ID	: 15201027b-02	**Init. Calib. Date(s)**	: 09/09/20	09/10/20	
Sample No	: WG1426984-1	**Init. Calib. Times**	: 22:16	16:21	
Channel	: B				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	25	25	-	0	20	97	0
2,4,5,6-Tetrachloro-m-xyl	50	57.313	-	-14.6	20	113	0
Hexachlorobenzene	50	53.251	-	-6.5	20	112	0
alpha-BHC	50	56.032	-	-12.1	20	100	0
gamma-BHC (lindane)	50	53.895	-	-7.8	20	100	0
beta-BHC	50	45.792	-	8.4	20	97	0
delta-BHC	50	53.553	-	-7.1	20	98	0
Heptachlor	50	48.718	-	2.6	20	95	0
Aldrin	50	55.432	-	-10.9	20	101	0
Alachlor	50	54.374	-	-8.7	20	116	0
Chlorpyrifos	50	47.866	-	4.3	20	109	0
Heptachlor Epoxide	50	49.257	-	1.5	20	99	0
gamma-Chlordane (trans)	50	50.098	-	-0.2	20	99	0
alpha-Chlordane (cis)	50	48.354	-	3.3	20	98	0
4,4'-DDE	50	53.681	-	-7.4	20	100	0
Endosulfan I	50	51.47	-	-2.9	20	102	0
Dieldrin	50	54.892	-	-9.8	20	105	0
Endrin	50	50.905	-	-1.8	20	99	0
4,4'-DDD	50	53.881	-	-7.8	20	102	0
Endosulfan II	50	46.365	-	7.3	20	97	0
4,4'-DDT	50	46.658	-	6.7	20	94	0
Endrin Aldehyde	50	43.19	-	13.6	20	90	0
Methoxychlor	50	45.678	-	8.6	20	98	0
Mirex	50	44.957	-	10.1	20	110	0
Endosulfan Sulfate	50	50.757	-	-1.5	20	106	0
Endrin Ketone	50	49.396	-	1.2	20	100	0
Decachlorobiphenyl	50	51.408	-	-2.8	20	117	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Impact Environmental	**Lab Number**	: L2046790		
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209		
Instrument ID	: PEST15	**Calibration Date**	: 10/27/20 09:15		
Lab File ID	: 15201027b-03	**Init. Calib. Date(s)**	: 09/09/20	09/10/20	
Sample No	: WG1426984-2	**Init. Calib. Times**	: 22:16	16:21	
Channel	: A				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	25	25	-	0	20	129	0
chlordane-1	1000	1084.618	-	-8.5	20	139	0
chlordane-3	1000	996.66	-	0.3	20	128	0
chlordane-4	1000	1096.015	-	-9.6	20	141	0
chlordane-5	1000	994.386	-	0.6	20	128	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Impact Environmental	**Lab Number**	: L2046790		
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209		
Instrument ID	: PEST15	**Calibration Date**	: 10/27/20 09:15		
Lab File ID	: 15201027b-03	**Init. Calib. Date(s)**	: 09/09/20	09/10/20	
Sample No	: WG1426984-2	**Init. Calib. Times**	: 22:16	16:21	
Channel	: B				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	25	25	-	0	20	95	0
chlordane-1	1000	1062.006	-	-6.2	20	101	0
chlordane-3	1000	1043.865	-	-4.4	20	99	0
chlordane-4	1000	986.572	-	1.3	20	93	0
chlordane-5	1000	977.459	-	2.3	20	93	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Impact Environmental	**Lab Number**	: L2046790		
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209		
Instrument ID	: PEST15	**Calibration Date**	: 10/27/20 09:28		
Lab File ID	: 15201027b-04	**Init. Calib. Date(s)**	: 09/09/20	09/10/20	
Sample No	: WG1426984-3	**Init. Calib. Times**	: 22:16	16:21	
Channel	: A				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	25	25	-	0	20	115	0
toxaphene-1	2000	1822.711	-	8.9	20	102	0
toxaphene-2	2000	1834.552	-	8.3	20	102	0
toxaphene-4	2000	1946.899	-	2.7	20	121	0
toxaphene-5	2000	1770.239	-	11.5	20	110	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Impact Environmental	**Lab Number**	: L2046790		
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209		
Instrument ID	: PEST15	**Calibration Date**	: 10/27/20 09:28		
Lab File ID	: 15201027b-04	**Init. Calib. Date(s)**	: 09/09/20	09/10/20	
Sample No	: WG1426984-3	**Init. Calib. Times**	: 22:16	16:21	
Channel	: B				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	25	25	-	0	20	87	0
toxaphene-1	2000	1935.451	-	3.2	20	88	0
toxaphene-2	2000	1928.635	-	3.6	20	86	0
toxaphene-4	2000	1735.428	-	13.2	20	79	0
toxaphene-5	2000	1902.208	-	4.9	20	83	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Impact Environmental	**Lab Number**	: L2046790	
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209	
Instrument ID	: PEST15	**Calibration Date**	: 10/28/20 06:10	
Lab File ID	: 15201028a-03	**Init. Calib. Date(s)**	: 09/09/20	09/10/20
Sample No	: WG1427385-2	**Init. Calib. Times**	: 22:16	16:21
Channel	: A			

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	25	25	-	0	20	130	0
chlordane-1	1000	1168.417	-	-16.8	20	152	0
chlordane-3	1000	1071.644	-	-7.2	20	139	0
chlordane-4	1000	1208.947	-	-20.9*	20	157	0
chlordane-5	1000	1109.735	-	-11	20	144	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Impact Environmental	**Lab Number**	: L2046790	
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209	
Instrument ID	: PEST15	**Calibration Date**	: 10/28/20 06:10	
Lab File ID	: 15201028a-03	**Init. Calib. Date(s)**	: 09/09/20	09/10/20
Sample No	: WG1427385-2	**Init. Calib. Times**	: 22:16	16:21
Channel	: B			

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	25	25	-	0	20	100	0
chlordane-1	1000	1139.106	-	-13.9	20	113	0
chlordane-3	1000	1144.671	-	-14.5	20	114	0
chlordane-4	1000	1119.453	-	-11.9	20	111	0
chlordane-5	1000	1120.273	-	-12	20	111	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Impact Environmental	**Lab Number**	: L2046790		
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209		
Instrument ID	: PEST15	**Calibration Date**	: 10/28/20 06:23		
Lab File ID	: 15201028a-04	**Init. Calib. Date(s)**	: 09/09/20	09/10/20	
Sample No	: WG1427385-3	**Init. Calib. Times**	: 22:16	16:21	
Channel	: A				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	25	25	-	0	20	119	0
toxaphene-1	2000	2194.613	-	-9.7	20	127	0
toxaphene-2	2000	1904.302	-	4.8	20	110	0
toxaphene-4	2000	2376.973	-	-18.8	20	153	0
toxaphene-5	2000	2112.046	-	-5.6	20	136	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Impact Environmental	**Lab Number**	: L2046790		
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209		
Instrument ID	: PEST15	**Calibration Date**	: 10/28/20 06:23		
Lab File ID	: 15201028a-04	**Init. Calib. Date(s)**	: 09/09/20	09/10/20	
Sample No	: WG1427385-3	**Init. Calib. Times**	: 22:16	16:21	
Channel	: B				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	25	25	-	0	20	90	0
toxaphene-1	2000	2138.312	-	-6.9	20	100	0
toxaphene-2	2000	2152.018	-	-7.6	20	100	0
toxaphene-4	2000	1945.515	-	2.7	20	92	0
toxaphene-5	2000	2114.252	-	-5.7	20	96	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Impact Environmental	**Lab Number**	: L2046790		
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209		
Instrument ID	: PEST15	**Calibration Date**	: 10/28/20 11:32		
Lab File ID	: 15201028a-24	**Init. Calib. Date(s)**	: 09/09/20	09/10/20	
Sample No	: WG1427385-4	**Init. Calib. Times**	: 22:16	16:21	
Channel	: A				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	25	25	-	0	20	146	0
2,4,5,6-Tetrachloro-m-xylen	50	54.62	-	-9.2	20	165	0
Hexachlorobenzene	50	52.512	-	-5	20	165	0
alpha-BHC	50	56.893	-	-13.8	20	159	0
gamma-BHC (lindane)	50	53.902	-	-7.8	20	154	0
beta-BHC	50	48.403	-	3.2	20	149	0
delta-BHC	50	57.684	-	-15.4	20	161	0
Heptachlor	50	50.898	-	-1.8	20	151	0
Aldrin	50	57.689	-	-15.4	20	162	0
Alachlor	50	53.63	-	-7.3	20	167	0
Chlorpyrifos	50	46.383	-	7.2	20	158	0
Heptachlor Epoxide	50	52.615	-	-5.2	20	158	0
gamma-Chlordane (trans)	50	55.125	-	-10.3	20	163	0
alpha-Chlordane (cis)	50	50.121	-	-0.2	20	155	0
4,4'-DDE	50	57.391	-	-14.8	20	161	0
Endosulfan I	50	54.601	-	-9.2	20	160	0
Dieldrin	50	60.023	-	-20	20	172	0
Endrin	50	56.165	-	-12.3	20	163	0
4,4'-DDD	50	59.624	-	-19.2	20	167	0
Endosulfan II	50	51.82	-	-3.6	20	155	0
4,4'-DDT	50	53.072	-	-6.1	20	153	0
Endrin Aldehyde	50	47.001	-	6	20	143	0
Methoxychlor	50	44.759	-	10.5	20	142	0
Mirex	50	44.169	-	11.7	20	154	0
Endosulfan Sulfate	50	49.976	-	0	20	155	0
Endrin Ketone	50	48.595	-	2.8	20	148	0
Decachlorobiphenyl	50	48.207	-	3.6	20	160	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Impact Environmental	**Lab Number**	: L2046790		
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209		
Instrument ID	: PEST15	**Calibration Date**	: 10/28/20 11:32		
Lab File ID	: 15201028a-24	**Init. Calib. Date(s)**	: 09/09/20	09/10/20	
Sample No	: WG1427385-4	**Init. Calib. Times**	: 22:16	16:21	
Channel	: B				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	25	25	-	0	20	114	0
2,4,5,6-Tetrachloro-m-xyl	50	58.019	-	-16	20	135	0
Hexachlorobenzene	50	54.529	-	-9.1	20	134	0
alpha-BHC	50	57.228	-	-14.5	20	120	0
gamma-BHC (lindane)	50	54.579	-	-9.2	20	119	0
beta-BHC	50	47.118	-	5.8	20	117	0
delta-BHC	50	57.179	-	-14.4	20	123	0
Heptachlor	50	49.983	-	0	20	114	0
Aldrin	50	58.155	-	-16.3	20	125	0
Alachlor	50	55.738	-	-11.5	20	139	0
Chlorpyrifos	50	50.937	-	-1.9	20	136	0
Heptachlor Epoxide	50	51.893	-	-3.8	20	122	0
gamma-Chlordane (trans)	50	53.062	-	-6.1	20	123	0
alpha-Chlordane (cis)	50	52.118	-	-4.2	20	124	0
4,4'-DDE	50	58.23	-	-16.5	20	128	0
Endosulfan I	50	54.102	-	-8.2	20	125	0
Dieldrin	50	58.494	-	-17	20	132	0
Endrin	50	54.372	-	-8.7	20	124	0
4,4'-DDD	50	59.952	-	-19.9	20	134	0
Endosulfan II	50	49.731	-	0.5	20	122	0
4,4'-DDT	50	47.113	-	5.8	20	112	0
Endrin Aldehyde	50	44.705	-	10.6	20	109	0
Methoxychlor	50	47.708	-	4.6	20	120	0
Mirex	50	47.845	-	4.3	20	138	0
Endosulfan Sulfate	50	56.527	-	-13.1	20	139	0
Endrin Ketone	50	50.607	-	-1.2	20	121	0
Decachlorobiphenyl	50	50.805	-	-1.6	20	136	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\Pest15\201027b\
Data File : 15201027b-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 27 Oct 2020   9:02 am
Operator : PEST15:sm
Sample   : wg1426984-1,42e,,pest pp 10168 (Sig #1); pest pp 10168 (Sig #2)
Misc   : wg1426984,ical17155
ALS Vial : 2   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 09:12:57 2020
Quant Method : I:\Pest15\201027b\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Tue Oct 27 08:28:24 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	131	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	50.000	55.273	-10.5	150	0.00
3		Hexachlorobenzene	50.000	56.372	-12.7	159	0.00
4		alpha-BHC	50.000	54.688	-9.4	137	0.00
5		gamma-BHC (lindane)	50.000	51.163	-2.3	131	0.00
6		beta-BHC	50.000	44.427	11.1	123	0.00
7		delta-BHC	50.000	54.047	-8.1	136	0.00
8		Heptachlor	50.000	48.464	3.1	129	0.00
9		Aldrin	50.000	54.615	-9.2	138	0.00
10		Alachlor	50.000	51.731	-3.5	145	0.00
11		Chlorpyrifos	50.000	44.730	10.5	137	0.00
12		Heptachlor Epoxide	50.000	48.790	2.4	132	0.00
13		gamma-Chlordane (trans)	50.000	48.810	2.4	130	0.00
14		alpha-Chlordane (cis)	50.000	45.608	8.8	127	0.00
15		4,4'-DDE	50.000	52.465	-4.9	132	0.00
16		Endosulfan I	50.000	50.041	-0.1	132	0.00
17		Dieldrin	50.000	54.702	-9.4	141	0.00
18		Endrin	50.000	50.804	-1.6	132	0.00
19		4,4'-DDD	50.000	53.798	-7.6	135	0.00
20		Endosulfan II	50.000	45.685	8.6	123	0.00
21		4,4'-DDT	50.000	46.856	6.3	121	0.00
22		Endrin Aldehyde	50.000	40.747	18.5	111	0.00
23		Methoxychlor	50.000	41.273	17.5	118	0.00
24		Mirex	50.000	40.010	20.0	126	0.00
25		Endosulfan Sulfate	50.000	46.179	7.6	129	0.00
26		Endrin Ketone	50.000	44.876	10.2	123	0.00
27	s	Decachlorobiphenyl	50.000	42.521	15.0	127	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\Pest15\201027b\
Data File : 15201027b-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 27 Oct 2020   9:02 am
Operator : PEST15:sm
Sample   : wg1426984-1,42e,,pest pp 10168 (Sig #1); pest pp 10168 (Sig #2)
Misc   : wg1426984,ical17155
ALS Vial : 2   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 09:12:57 2020
Quant Method : I:\Pest15\201027b\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Tue Oct 27 08:28:24 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	97	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl	50.000	57.313	-14.6	113	0.00
3		Hexachlorobenzene	50.000	53.251	-6.5	112	0.00
4		alpha-BHC	50.000	56.032	-12.1	100	0.00
5		gamma-BHC (lindane)	50.000	53.895	-7.8	100	0.00
6		beta-BHC	50.000	45.792	8.4	97	0.00
7		delta-BHC	50.000	53.553	-7.1	98	0.00
8		Heptachlor	50.000	48.718	2.6	95	0.00
9		Aldrin	50.000	55.432	-10.9	101	0.00
10		Alachlor	50.000	54.374	-8.7	116	0.00
11		Chlorpyrifos	50.000	47.866	4.3	109	0.00
12		Heptachlor Epoxide	50.000	49.257	1.5	99	0.00
13		gamma-Chlordane (trans)	50.000	50.098	-0.2	99	0.00
14		alpha-Chlordane (cis)	50.000	48.354	3.3	98	0.00
15		4,4'-DDE	50.000	53.681	-7.4	100	0.00
16		Endosulfan I	50.000	51.470	-2.9	102	0.00
17		Dieldrin	50.000	54.892	-9.8	105	0.00
18		Endrin	50.000	50.905	-1.8	99	0.00
19		4,4'-DDD	50.000	53.881	-7.8	102	0.00
20		Endosulfan II	50.000	46.365	7.3	97	0.00
21		4,4'-DDT	50.000	46.658	6.7	94	0.00
22		Endrin Aldehyde	50.000	43.190	13.6	90	0.00
23		Methoxychlor	50.000	45.678	8.6	98	0.00
24		Mirex	50.000	44.957	10.1	110	0.00
25		Endosulfan Sulfate	50.000	50.757	-1.5	106	0.00
26		Endrin Ketone	50.000	49.396	1.2	100	0.00
27	s	Decachlorobiphenyl	50.000	51.408	-2.8	117	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\Pest15\201027b\
Data File : 15201027b-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 27 Oct 2020   9:02 am
Operator : PEST15:sm
Sample   : wg1426984-1,42e,,pest pp 10168 (Sig #1); pest pp 10168 (Sig #2)
Misc   : wg1426984,ical17155
ALS Vial : 2   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 09:12:57 2020
Quant Method : I:\Pest15\201027b\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Tue Oct 27 08:28:24 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	0	-1.75#
29	l1	chlordane-1	2500.000	0.000	100.0#	0	-3.08#
30	l1	chlordane-3	2500.000	0.000	100.0#	0	-3.47#
31	l1	chlordane-4	2500.000	0.000	100.0#	0	-3.96#
32	l1	chlordane-5	2500.000	0.000	100.0#	0	-4.06#
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	0	-1.75#
34	l2	toxaphene-1	5000.000	0.000	100.0#	0	-4.69#
35	l2	toxaphene-2	5000.000	0.000	100.0#	0	-4.78#
36	l2	toxaphene-4	5000.000	0.000	100.0#	0	-5.17#
37	l2	toxaphene-5	5000.000	0.000	100.0#	0	-5.24#

Signal #2

28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	0	-1.82#
29	l1	chlordane-1	2500.000	0.000	100.0#	0	-3.35#
30	l1	chlordane-3	2500.000	0.000	100.0#	0	-3.87#
31	l1	chlordane-4	2500.000	0.000	100.0#	0	-4.45#
32	l1	chlordane-5	2500.000	0.000	100.0#	0	-4.49#
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	0	-1.82#
34	l2	toxaphene-1	5000.000	0.000	100.0#	0	-5.09#
35	l2	toxaphene-2	5000.000	0.000	100.0#	0	-5.12#
36	l2	toxaphene-4	5000.000	0.000	100.0#	0	-5.37#
37	l2	toxaphene-5	5000.000	0.000	100.0#	0	-5.72#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\201027b\
Data File : 15201027b-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 9:02 am
Operator : PEST15:sm
Sample : wg1426984-1,42e,,pest pp 10168 (Sig #1); pest pp 10168 (Sig #2)
Misc : wg1426984,ical17155
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 09:12:57 2020
Quant Method : I:\Pest15\201027b\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Tue Oct 27 08:28:24 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.750	1.825	132.4E6	59263225	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.220	2.405	308.7E6	155.1E6	55.273	57.313
	Spiked Amount 50.000	Range 30 - 150		Recovery =		110.55%	114.63%
27) s	Decachlorobi	6.177	6.693	170.0E6	93664095	42.521	51.408
	Spiked Amount 50.000	Range 30 - 150		Recovery =		85.04%	102.82%
	Target Compounds						
3)	Hexachlorobe	2.469	2.740	363.7E6	167.5E6	56.372	53.251
4)	alpha-BHC	2.580	2.841	381.6E6	187.1E6	54.688	56.032
5)	gamma-BHC (l	2.795	3.115	338.0E6	169.5E6	51.163	53.895
6)	beta-BHC	2.856	3.180	153.2E6	77548608	44.427	45.792
7)	delta-BHC	2.984	3.421	351.8E6	167.4E6	54.047	53.553
8)	Heptachlor	3.145	3.473	324.3E6	158.0E6	48.464	48.718
9)	Aldrin	3.374	3.749	311.4E6	150.0E6	54.615	55.432
10)	Alachlor	3.485	3.651	48534314	26084613	51.731	54.374
11)	Chlorpyrifos	3.566	3.940	158.7E6	81239704	44.730	47.866
12)	Heptachlor E	3.857	4.228	285.8E6	133.2E6	48.790	49.257
13)	gamma-Chlord	3.961	4.381	285.6E6	137.1E6	48.810	50.098
14)	alpha-Chlord	4.067	4.494	274.2E6	126.2E6	45.608	48.354
15)	4,4'-DDE	4.135	4.624	283.2E6	124.1E6	52.465	53.681
16)	Endosulfan I	4.171	4.540	260.2E6	118.8E6	50.041	51.470
17)	Dieldrin	4.359	4.750	288.8E6	128.3E6	54.702	54.892
18)	Endrin	4.533	4.977	277.1E6	118.9E6	50.804	50.905
19)	4,4'-DDD	4.595	5.056	223.8E6	96145140	53.798	53.881
20)	Endosulfan I	4.702	5.133	233.3E6	104.7E6	45.685	46.365
21)	4,4'-DDT	4.803	5.277	234.6E6	103.0E6	46.856	46.658
22)	Endrin Aldeh	5.005	5.368	169.1E6	80031359	40.747	43.190
23)	Methoxychlor	5.164	5.749	119.1E6	55760698	41.273	45.678

Data Path : I:\Pest15\201027b\
Data File : 15201027b-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 9:02 am
Operator : PEST15:sm
Sample : wg1426984-1,42e,,pest pp 10168 (Sig #1); pest pp 10168 (Sig #2)
Misc : wg1426984,ical17155
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 09:12:57 2020
Quant Method : I:\Pest15\201027b\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Tue Oct 27 08:28:24 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	5.247	5.896	189.9E6	85264211	40.010	44.957
25)	Endosulfan S	5.310	5.558	206.1E6	100.6E6	46.179	50.757
26)	Endrin Keton	5.501	5.920	233.0E6	113.2E6	44.876	49.396
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

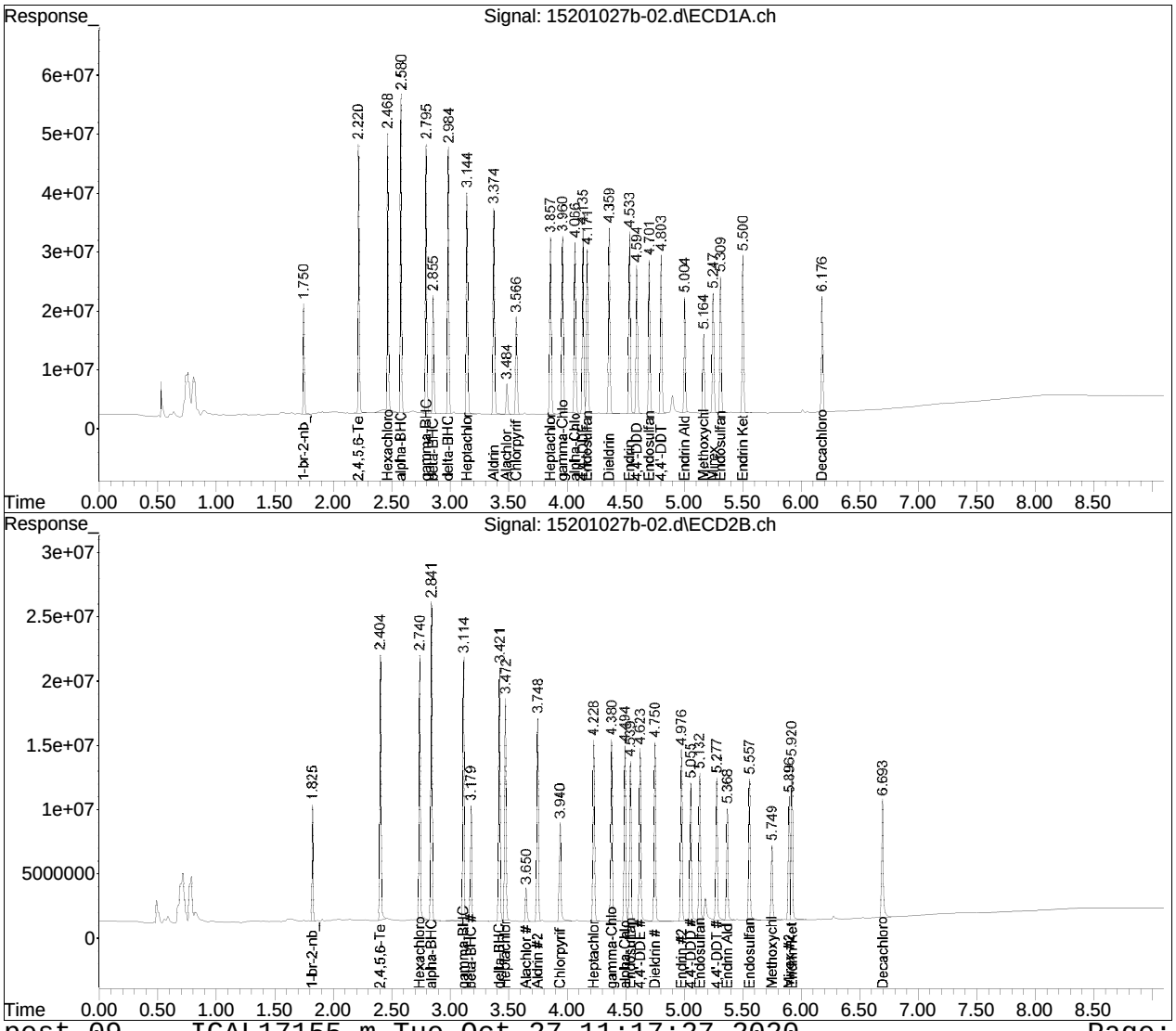
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest15\201027b\
Data File : 15201027b-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 9:02 am
Operator : PEST15:sm
Sample : wg1426984-1,42e,,pest pp 10168 (Sig #1); pest pp 10168 (Sig #2)
Misc : wg1426984,ical17155
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 09:12:57 2020
Quant Method : I:\Pest15\201027b\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Tue Oct 27 08:28:24 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest15\201027b\	QMethod	: P15_pest_09_09_20_ugL_IC
Data File	: 15201027b-02.d	Operator	: PEST15:sm
Date Inj'd	: 10/27/2020 9:02 am	Instrument	: Pest 15
Sample	: wg1426984-1,42e,,pest pp 1	Quant Date	: 10/27/2020 9:12 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\Pest15\201027b\
Data File : 15201027b-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 27 Oct 2020   9:15 am
Operator : PEST15:sm
Sample   : wg1426984-2,42e,,chlor pp 10129 (Sig #1); chlor pp 10129 (Sig #2)
Misc   : wg1426984,ical17155
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 09:26:50 2020
Quant Method : I:\Pest15\201027b\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Tue Oct 27 08:28:24 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	129	0.00
29	l1	chlordane-1	1000.000	1084.618	-8.5	139	0.00
30	l1	chlordane-3	1000.000	996.660	0.3	128	0.00
31	l1	chlordane-4	1000.000	1096.015	-9.6	141	0.00
32	l1	chlordane-5	1000.000	994.386	0.6	128	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	95	0.00
29	l1	chlordane-1	1000.000	1062.006	-6.2	101	0.00
30	l1	chlordane-3	1000.000	1043.865	-4.4	99	0.00
31	l1	chlordane-4	1000.000	986.572	1.3	93	0.00
32	l1	chlordane-5	1000.000	977.459	2.3	93	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	0	-1.75#
2	s	2,4,5,6-Tetrachloro-m-xylen	10.000	0.000	100.0#	0	-2.22#
3		Hexachlorobenzene	10.000	0.000	100.0#	0	-2.46#
4		alpha-BHC	10.000	0.000	100.0#	0	-2.58#
5		gamma-BHC (lindane)	10.000	0.000	100.0#	0	-2.79#
6		beta-BHC	10.000	0.000	100.0#	0	-2.85#
7		delta-BHC	10.000	0.000	100.0#	0	-2.98#
8		Heptachlor	10.000	0.000	100.0#	0	-3.14#
9		Aldrin	10.000	0.000	100.0#	0	-3.37#
10		Alachlor	10.000	0.000	100.0#	0	-3.48#
11		Chlorpyrifos	10.000	0.000	100.0#	0	-3.56#
12		Heptachlor Epoxide	10.000	0.000	100.0#	0	-3.85#
13		gamma-Chlordane (trans)	10.000	0.000	100.0#	0	-3.96#

Evaluate Continuing Calibration Report

Data Path : I:\Pest15\201027b\
Data File : 15201027b-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 27 Oct 2020   9:15 am
Operator : PEST15:sm
Sample   : wg1426984-2,42e,,chlor pp 10129 (Sig #1); chlor pp 10129 (Sig #2)
Misc   : wg1426984,ical17155
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 09:26:50 2020
Quant Method : I:\Pest15\201027b\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Tue Oct 27 08:28:24 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)	10.000	0.000	100.0#	0	-4.06#
15		4,4'-DDE	10.000	0.000	100.0#	0	-4.13#
16		Endosulfan I	10.000	0.000	100.0#	0	-4.17#
17		Dieldrin	10.000	0.000	100.0#	0	-4.35#
18		Endrin	10.000	0.000	100.0#	0	-4.53#
19		4,4'-DDD	10.000	0.000	100.0#	0	-4.59#
20		Endosulfan II	10.000	0.000	100.0#	0	-4.70#
21		4,4'-DDT	10.000	0.000	100.0#	0	-4.80#
22		Endrin Aldehyde	10.000	0.000	100.0#	0	-5.00#
23		Methoxychlor	10.000	0.000	100.0#	0	-5.16#
24		Mirex	10.000	0.000	100.0#	0	-5.24#
25		Endosulfan Sulfate	10.000	0.000	100.0#	0	-5.30#
26		Endrin Ketone	10.000	0.000	100.0#	0	-5.50#
27	s	Decachlorobiphenyl	10.000	0.000	100.0#	0	-6.17#
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	0	-1.75#
34	l2	toxaphene-1	2000.000	0.000	100.0#	0	-4.69#
35	l2	toxaphene-2	2000.000	0.000	100.0#	0	-4.78#
36	l2	toxaphene-4	2000.000	0.000	100.0#	0	-5.17#
37	l2	toxaphene-5	2000.000	0.000	100.0#	0	-5.24#

Signal #2

1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	0	-1.82#
2	s	2,4,5,6-Tetrachloro-m-xyl	10.000	0.000	100.0#	0	-2.40#
3		Hexachlorobenzene	10.000	0.000	100.0#	0	-2.74#
4		alpha-BHC	10.000	0.000	100.0#	0	-2.84#
5		gamma-BHC (lindane)	10.000	0.000	100.0#	0	-3.11#
6		beta-BHC	10.000	0.000	100.0#	0	-3.18#
7		delta-BHC	10.000	0.000	100.0#	0	-3.42#

Evaluate Continuing Calibration Report

Data Path : I:\Pest15\201027b\
Data File : 15201027b-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 27 Oct 2020   9:15 am
Operator : PEST15:sm
Sample   : wg1426984-2,42e,,chlor pp 10129 (Sig #1); chlor pp 10129 (Sig #2)
Misc   : wg1426984,ical17155
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 09:26:50 2020
Quant Method : I:\Pest15\201027b\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Tue Oct 27 08:28:24 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
8		Heptachlor	10.000	0.000	100.0#	0	-3.47#
9		Aldrin	10.000	0.000	100.0#	0	-3.75#
10		Alachlor	10.000	0.000	100.0#	0	-3.65#
11		Chlorpyrifos	10.000	0.000	100.0#	0	-3.94#
12		Heptachlor Epoxide	10.000	0.000	100.0#	0	-4.23#
13		gamma-Chlordane (trans)	10.000	0.000	100.0#	0	-4.38#
14		alpha-Chlordane (cis)	10.000	0.000	100.0#	0	-4.49#
15		4,4'-DDE	10.000	0.000	100.0#	0	-4.62#
16		Endosulfan I	10.000	0.000	100.0#	0	-4.54#
17		Dieldrin	10.000	0.000	100.0#	0	-4.75#
18		Endrin	10.000	0.000	100.0#	0	-4.97#
19		4,4'-DDD	10.000	0.000	100.0#	0	-5.05#
20		Endosulfan II	10.000	0.000	100.0#	0	-5.13#
21		4,4'-DDT	10.000	0.000	100.0#	0	-5.28#
22		Endrin Aldehyde	10.000	0.000	100.0#	0	-5.37#
23		Methoxychlor	10.000	0.000	100.0#	0	-5.75#
24		Mirex	10.000	0.000	100.0#	0	-5.89#
25		Endosulfan Sulfate	10.000	0.000	100.0#	0	-5.56#
26		Endrin Ketone	10.000	0.000	100.0#	0	-5.92#
27	s	Decachlorobiphenyl	10.000	0.000	100.0#	0	-6.69#
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	0	-1.82#
34	l2	toxaphene-1	2000.000	0.000	100.0#	0	-5.09#
35	l2	toxaphene-2	2000.000	0.000	100.0#	0	-5.12#
36	l2	toxaphene-4	2000.000	0.000	100.0#	0	-5.37#
37	l2	toxaphene-5	2000.000	0.000	100.0#	0	-5.72#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\201027b\
Data File : 15201027b-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 9:15 am
Operator : PEST15:sm
Sample : wg1426984-2,42e,,chlor pp 10129 (Sig #1); chlor pp 10129 (Sig #2)
Misc : wg1426984,ical17155
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 09:26:50 2020
Quant Method : I:\Pest15\201027b\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Tue Oct 27 08:28:24 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.748	1.824	140.6E6	63840827	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest15\201027b\
Data File : 15201027b-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 9:15 am
Operator : PEST15:sm
Sample : wg1426984-2,42e,,chlor pp 10129 (Sig #1); chlor pp 10129 (Sig #2)
Misc : wg1426984,ical17155
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 09:26:50 2020
Quant Method : I:\Pest15\201027b\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Tue Oct 27 08:28:24 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d	
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d	
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d	
29) l1	chlordane-1	3.079	3.350	233.7E6	115.4E6	1084.618	1062.006	
30) l1	chlordane-3	3.473	3.873	232.6E6	110.6E6	996.660	1043.865	
31) l1	chlordane-4	3.959	4.452	783.6E6	278.5E6	1096.015	986.572	
32) l1	chlordane-5	4.061	4.494	1080.6E6	272.0E6	994.386	977.459	
Sum	chlordane-1			2330.5E6	776.5E6	N.D.	N.D.	D
Average	chlordane-1					1042.920	1017.476	
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d	
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d	
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d	
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d	
Sum	toxaphene-1			0	0	N.D.	N.D.	
Average	toxaphene-1					0.000	0.000	

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.	
Average	toxaphene-1					0.000	0.000	

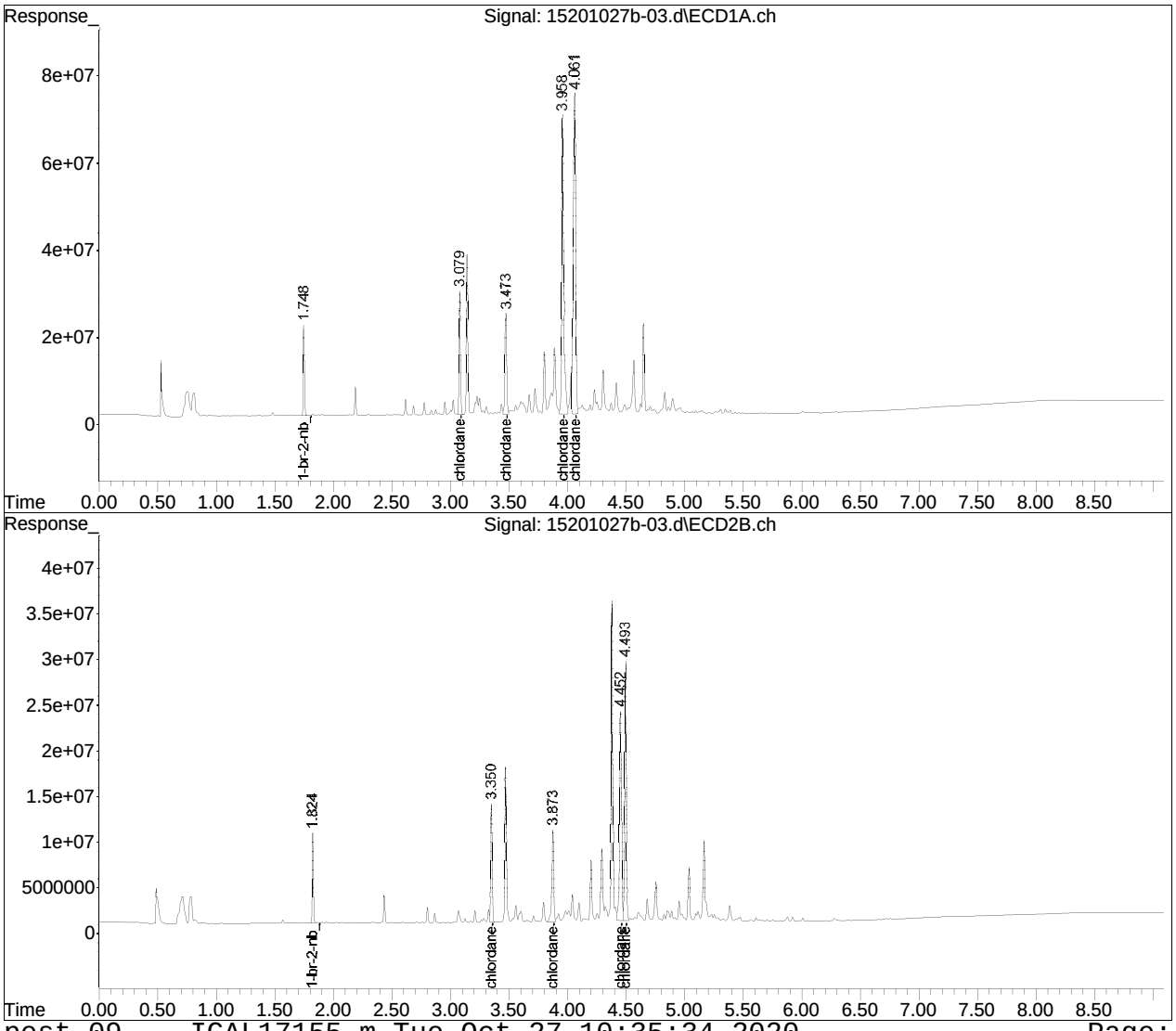
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest15\201027b\
Data File : 15201027b-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 9:15 am
Operator : PEST15:sm
Sample : wg1426984-2,42e,,chlor pp 10129 (Sig #1); chlor pp 10129 (Sig #2)
Misc : wg1426984,ical17155
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 09:26:50 2020
Quant Method : I:\Pest15\201027b\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Tue Oct 27 08:28:24 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest15\201027b\	QMethod	: P15_pest_09_09_20_ugL_IC
Data File	: 15201027b-03.d	Operator	: PEST15:sm
Date Inj'd	: 10/27/2020 9:15 am	Instrument	: Pest 15
Sample	: wg1426984-2,42e,,chlor pp	Quant Date	: 10/27/2020 9:26 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\Pest15\201027b\
Data File : 15201027b-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 27 Oct 2020   9:28 am
Operator : PEST15:sm
Sample   : wg1426984-3,42e,,tox pp 10098 (Sig #1); tox pp 10098 (Sig #2)
Misc   : wg1426984,ical17155
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 09:41:19 2020
Quant Method : I:\Pest15\201027b\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Tue Oct 27 08:28:24 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	115	0.00
34	l2	toxaphene-1	2000.000	1822.711	8.9	102	0.00
35	l2	toxaphene-2	2000.000	1834.552	8.3	102	0.00
36	l2	toxaphene-4	2000.000	1946.899	2.7	121	0.00
37	l2	toxaphene-5	2000.000	1770.239	11.5	110	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	87	0.00
34	l2	toxaphene-1	2000.000	1935.451	3.2	88	0.00
35	l2	toxaphene-2	2000.000	1928.635	3.6	86	0.00
36	l2	toxaphene-4	2000.000	1735.428	13.2	79	0.00
37	l2	toxaphene-5	2000.000	1902.208	4.9	83	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	0	-1.75#
2	s	2,4,5,6-Tetrachloro-m-xylen	10.000	0.000	100.0#	0	-2.22#
3		Hexachlorobenzene	10.000	0.000	100.0#	0	-2.46#
4		alpha-BHC	10.000	0.000	100.0#	0	-2.58#
5		gamma-BHC (lindane)	10.000	0.000	100.0#	0	-2.79#
6		beta-BHC	10.000	0.000	100.0#	0	-2.85#
7		delta-BHC	10.000	0.000	100.0#	0	-2.98#
8		Heptachlor	10.000	0.000	100.0#	0	-3.14#
9		Aldrin	10.000	0.000	100.0#	0	-3.37#
10		Alachlor	10.000	0.000	100.0#	0	-3.48#
11		Chlorpyrifos	10.000	0.000	100.0#	0	-3.56#
12		Heptachlor Epoxide	10.000	0.000	100.0#	0	-3.85#
13		gamma-Chlordane (trans)	10.000	0.000	100.0#	0	-3.96#

Data Path : I:\Pest15\201027b\
Data File : 15201027b-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 27 Oct 2020   9:28 am
Operator : PEST15:sm
Sample   : wg1426984-3,42e,,tox pp 10098 (Sig #1); tox pp 10098 (Sig #2)
Misc   : wg1426984,ical17155
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 09:41:19 2020
Quant Method : I:\Pest15\201027b\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Tue Oct 27 08:28:24 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)	10.000	0.000	100.0#	0	-4.06#
15		4,4'-DDE	10.000	0.000	100.0#	0	-4.13#
16		Endosulfan I	10.000	0.000	100.0#	0	-4.17#
17		Dieldrin	10.000	0.000	100.0#	0	-4.35#
18		Endrin	10.000	0.000	100.0#	0	-4.53#
19		4,4'-DDD	10.000	0.000	100.0#	0	-4.59#
20		Endosulfan II	10.000	0.000	100.0#	0	-4.70#
21		4,4'-DDT	10.000	0.000	100.0#	0	-4.80#
22		Endrin Aldehyde	10.000	0.000	100.0#	0	-5.00#
23		Methoxychlor	10.000	0.000	100.0#	0	-5.16#
24		Mirex	10.000	0.000	100.0#	0	-5.24#
25		Endosulfan Sulfate	10.000	0.000	100.0#	0	-5.30#
26		Endrin Ketone	10.000	0.000	100.0#	0	-5.50#
27	s	Decachlorobiphenyl	10.000	0.000	100.0#	0	-6.17#
28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	0	-1.75#
29	l1	chlordane-1	1000.000	0.000	100.0#	0	-3.08#
30	l1	chlordane-3	1000.000	0.000	100.0#	0	-3.47#
31	l1	chlordane-4	1000.000	0.000	100.0#	0	-3.96#
32	l1	chlordane-5	1000.000	0.000	100.0#	0	-4.06#

Signal #2

1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	0	-1.82#
2	s	2,4,5,6-Tetrachloro-m-xyl	10.000	0.000	100.0#	0	-2.40#
3		Hexachlorobenzene	10.000	0.000	100.0#	0	-2.74#
4		alpha-BHC	10.000	0.000	100.0#	0	-2.84#
5		gamma-BHC (lindane)	10.000	0.000	100.0#	0	-3.11#
6		beta-BHC	10.000	0.000	100.0#	0	-3.18#
7		delta-BHC	10.000	0.000	100.0#	0	-3.42#

Evaluate Continuing Calibration Report

Data Path : I:\Pest15\201027b\
Data File : 15201027b-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 27 Oct 2020   9:28 am
Operator : PEST15:sm
Sample   : wg1426984-3,42e,,tox pp 10098 (Sig #1); tox pp 10098 (Sig #2)
Misc   : wg1426984,ical17155
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 09:41:19 2020
Quant Method : I:\Pest15\201027b\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Tue Oct 27 08:28:24 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
8		Heptachlor	10.000	0.000	100.0#	0	-3.47#
9		Aldrin	10.000	0.000	100.0#	0	-3.75#
10		Alachlor	10.000	0.000	100.0#	0	-3.65#
11		Chlorpyrifos	10.000	0.000	100.0#	0	-3.94#
12		Heptachlor Epoxide	10.000	0.000	100.0#	0	-4.23#
13		gamma-Chlordane (trans)	10.000	0.000	100.0#	0	-4.38#
14		alpha-Chlordane (cis)	10.000	0.000	100.0#	0	-4.49#
15		4,4'-DDE	10.000	0.000	100.0#	0	-4.62#
16		Endosulfan I	10.000	0.000	100.0#	0	-4.54#
17		Dieldrin	10.000	0.000	100.0#	0	-4.75#
18		Endrin	10.000	0.000	100.0#	0	-4.97#
19		4,4'-DDD	10.000	0.000	100.0#	0	-5.05#
20		Endosulfan II	10.000	0.000	100.0#	0	-5.13#
21		4,4'-DDT	10.000	0.000	100.0#	0	-5.28#
22		Endrin Aldehyde	10.000	0.000	100.0#	0	-5.37#
23		Methoxychlor	10.000	0.000	100.0#	0	-5.75#
24		Mirex	10.000	0.000	100.0#	0	-5.89#
25		Endosulfan Sulfate	10.000	0.000	100.0#	0	-5.56#
26		Endrin Ketone	10.000	0.000	100.0#	0	-5.92#
27	s	Decachlorobiphenyl	10.000	0.000	100.0#	0	-6.69#
28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	0	-1.82#
29	l1	chlordane-1	1000.000	0.000	100.0#	0	-3.35#
30	l1	chlordane-3	1000.000	0.000	100.0#	0	-3.87#
31	l1	chlordane-4	1000.000	0.000	100.0#	0	-4.45#
32	l1	chlordane-5	1000.000	0.000	100.0#	0	-4.49#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\201027b\
Data File : 15201027b-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 9:28 am
Operator : PEST15:sm
Sample : wg1426984-3,42e,,tox pp 10098 (Sig #1); tox pp 10098 (Sig #2)
Misc : wg1426984,ical17155
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 09:41:19 2020
Quant Method : I:\Pest15\201027b\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Tue Oct 27 08:28:24 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.748	1.824	127.2E6	58584070	25.000M4	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\201027b\
Data File : 15201027b-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 9:28 am
Operator : PEST15:sm
Sample : wg1426984-3,42e,,tox pp 10098 (Sig #1); tox pp 10098 (Sig #2)
Misc : wg1426984,ical17155
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 09:41:19 2020
Quant Method : I:\Pest15\201027b\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Tue Oct 27 08:28:24 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
		Sum chlordane-1			0	0	N.D.	N.D.
		Average chlordane-1					0.000	0.000
34)	l2	toxaphene-1	4.689	5.090	450.6E6	89654656	1822.711	1935.451
35)	l2	toxaphene-2	4.778	5.117	621.2E6	137.9E6	1834.552M3	1928.635
36)	l2	toxaphene-4	5.171	5.369	379.6E6	146.3E6	1946.899M3	1735.428
37)	l2	toxaphene-5	5.238	5.719	318.7E6	139.4E6	1770.239	1902.208
		Sum toxaphene-1			1770.1E6	513.3E6	7374.401	7501.722
		Average toxaphene-1					1843.600	1875.430

SemiQuant Compounds - Not Calibrated on this Instrument

		Sum toxaphene-1			1770.1E6	513.3E6	7374.401	7501.722
		Average toxaphene-1					1843.600	1875.430

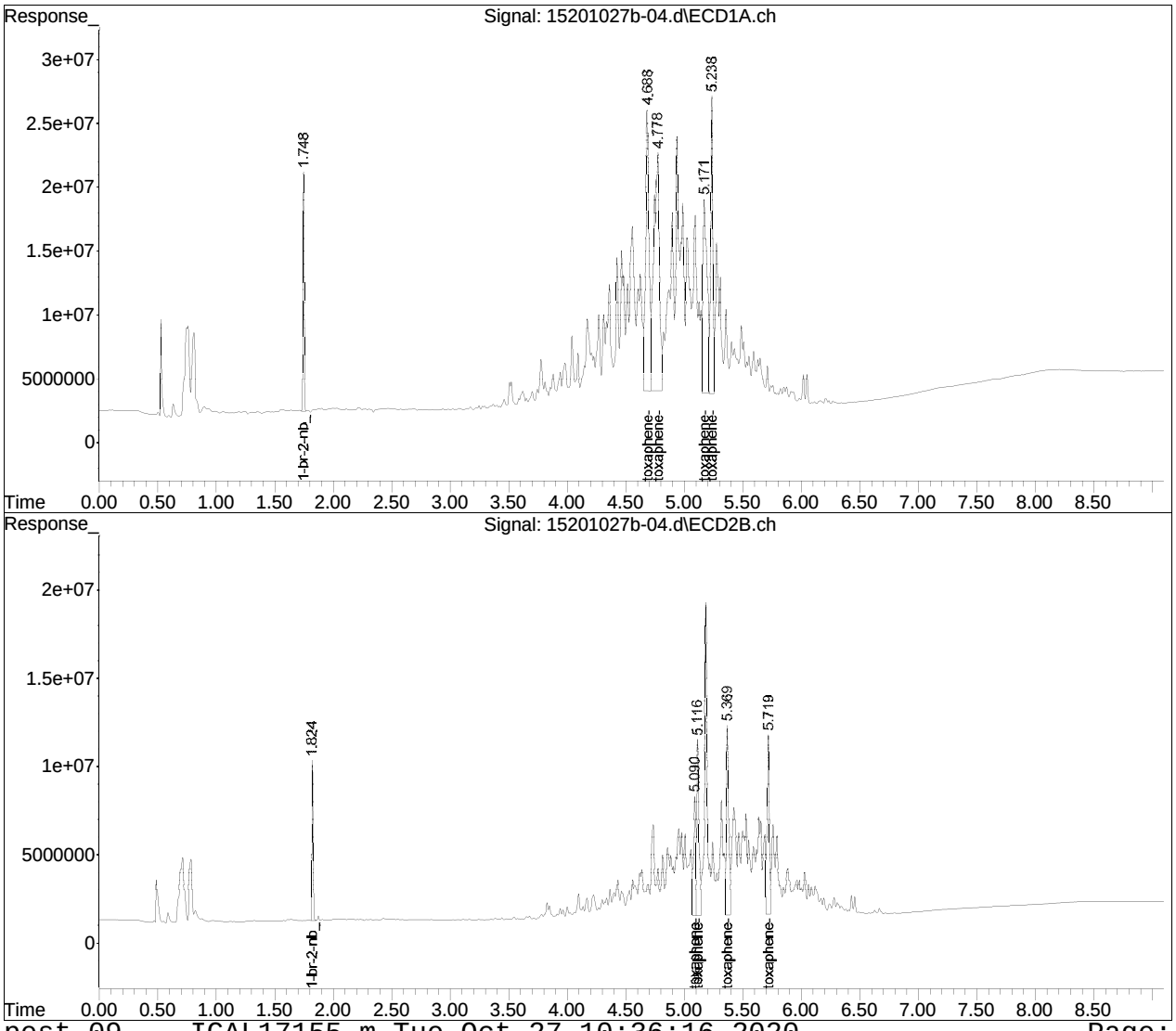
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest15\201027b\
Data File : 15201027b-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 9:28 am
Operator : PEST15:sm
Sample : wg1426984-3,42e,,tox pp 10098 (Sig #1); tox pp 10098 (Sig #2)
Misc : wg1426984,ical17155
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 09:41:19 2020
Quant Method : I:\Pest15\201027b\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Tue Oct 27 08:28:24 2020
Response via : Initial Calibration
Integrator: ChemStation

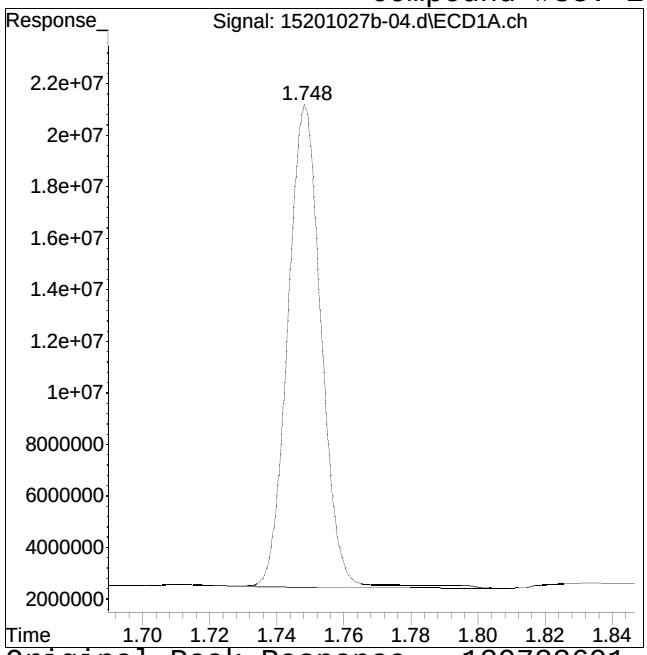
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



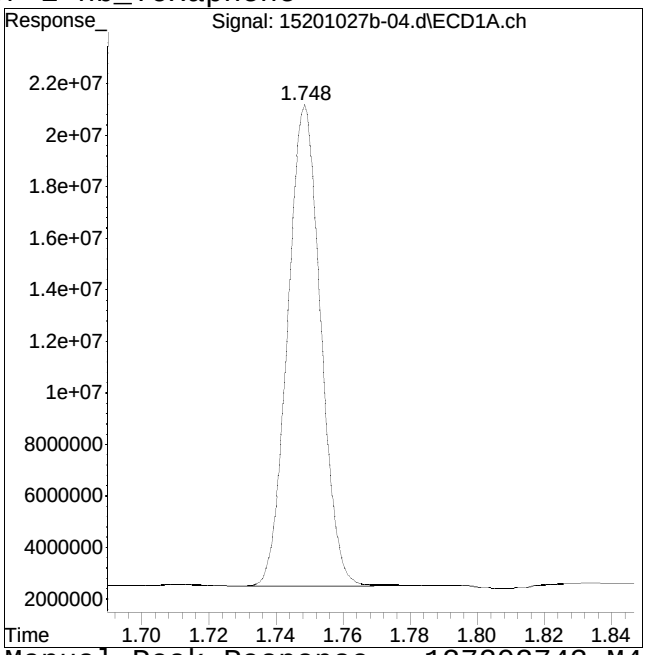
Manual Integration Report

Data Path : I:\Pest15\201027b\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15201027b-04.d Operator : PEST15:sm
Date Inj'd : 10/27/2020 9:28 am Instrument : Pest 15
Sample : wg1426984-3,42e,,tox pp 10 Quant Date : 10/27/2020 9:40 am

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 129733691

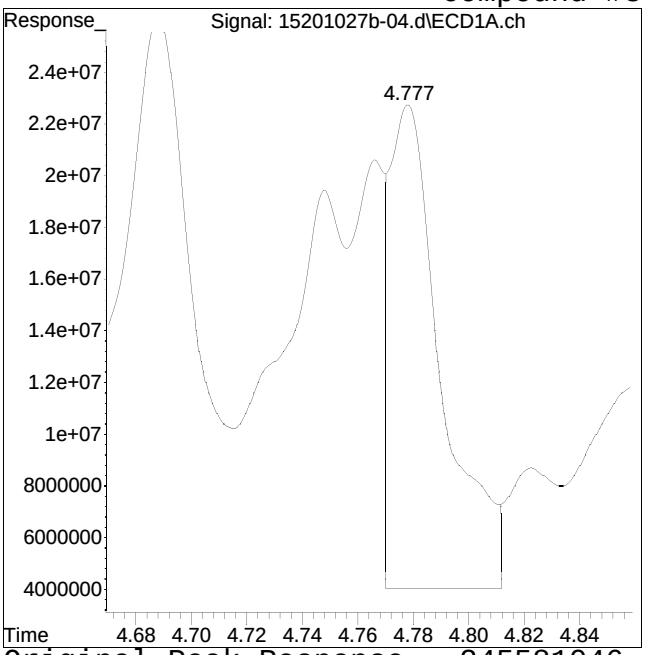


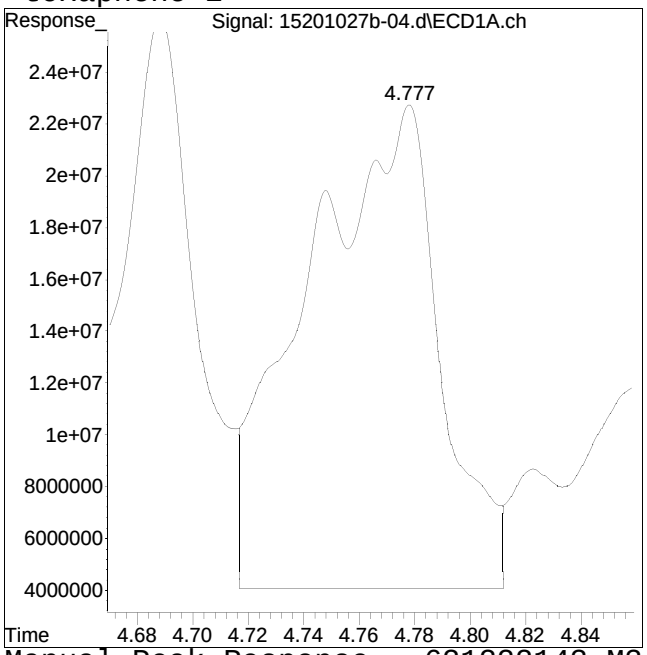
Manual Peak Response = 127202743 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest15\201027b\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15201027b-04.d Operator : PEST15:sm
Date Inj'd : 10/27/2020 9:28 am Instrument : Pest 15
Sample : wg1426984-3,42e,,tox pp 10 Quant Date : 10/27/2020 9:40 am

Compound #35: toxaphene-2



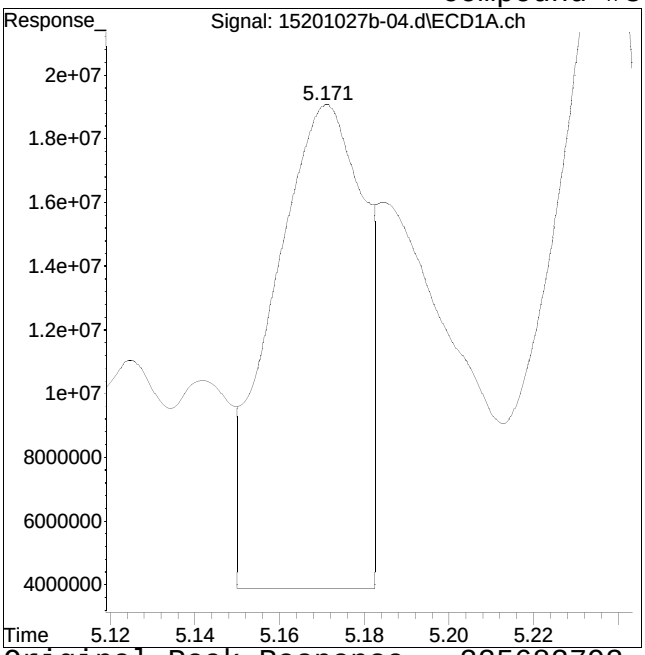


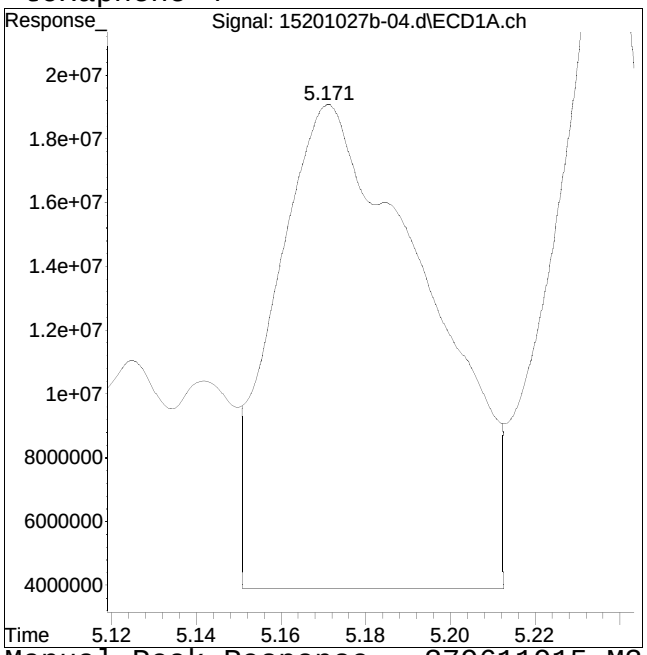
Original Peak Response = 245581046 Manual Peak Response = 621222143 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\Pest15\201027b\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15201027b-04.d Operator : PEST15:sm
Date Inj'd : 10/27/2020 9:28 am Instrument : Pest 15
Sample : wg1426984-3,42e,,tox pp 10 Quant Date : 10/27/2020 9:40 am

Compound #36: toxaphene-4





Original Peak Response = 225682793 Manual Peak Response = 379611915 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\Pest15\201028a\
Data File : 15201028a-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 28 Oct 2020   6:10 am
Operator : PEST15:sm
Sample   : wg1427385-2,42,, chlor pp 10129 (Sig #1); chlor pp 10129 (Sig #2)
Misc   : wg1427385,,ical17155
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 15:23:19 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 06:41:16 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	130	0.00
29	l1	chlordane-1	1000.000	1168.417	-16.8	152	0.00
30	l1	chlordane-3	1000.000	1071.644	-7.2	139	0.00
31	l1	chlordane-4	1000.000	1208.947	-20.9#	157	0.00
32	l1	chlordane-5	1000.000	1109.735	-11.0	144	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	100	0.00
29	l1	chlordane-1	1000.000	1139.106	-13.9	113	0.00
30	l1	chlordane-3	1000.000	1144.671	-14.5	114	0.00
31	l1	chlordane-4	1000.000	1119.453	-11.9	111	0.00
32	l1	chlordane-5	1000.000	1120.273	-12.0	111	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	0	-1.72#
2	s	2,4,5,6-Tetrachloro-m-xylen	10.000	0.000	100.0#	0	-2.19#
3		Hexachlorobenzene	10.000	0.000	100.0#	0	-2.44#
4		alpha-BHC	10.000	0.000	100.0#	0	-2.55#
5		gamma-BHC (lindane)	10.000	0.000	100.0#	0	-2.77#
6		beta-BHC	10.000	0.000	100.0#	0	-2.83#
7		delta-BHC	10.000	0.000	100.0#	0	-2.95#
8		Heptachlor	10.000	0.000	100.0#	0	-3.11#
9		Aldrin	10.000	0.000	100.0#	0	-3.34#
10		Alachlor	10.000	0.000	100.0#	0	-3.45#
11		Chlorpyrifos	10.000	0.000	100.0#	0	-3.53#
12		Heptachlor Epoxide	10.000	0.000	100.0#	0	-3.82#
13		gamma-Chlordane (trans)	10.000	0.000	100.0#	0	-3.93#

Data Path : I:\Pest15\201028a\
Data File : 15201028a-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 28 Oct 2020   6:10 am
Operator : PEST15:sm
Sample   : wg1427385-2,42,, chlor pp 10129 (Sig #1); chlor pp 10129 (Sig #2)
Misc   : wg1427385,,ical17155
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 15:23:19 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 06:41:16 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)	10.000	0.000	100.0#	0	-4.03#
15		4,4'-DDE	10.000	0.000	100.0#	0	-4.10#
16		Endosulfan I	10.000	0.000	100.0#	0	-4.14#
17		Dieldrin	10.000	0.000	100.0#	0	-4.33#
18		Endrin	10.000	0.000	100.0#	0	-4.50#
19		4,4'-DDD	10.000	0.000	100.0#	0	-4.56#
20		Endosulfan II	10.000	0.000	100.0#	0	-4.67#
21		4,4'-DDT	10.000	0.000	100.0#	0	-4.77#
22		Endrin Aldehyde	10.000	0.000	100.0#	0	-4.97#
23		Methoxychlor	10.000	0.000	100.0#	0	-5.13#
24		Mirex	10.000	0.000	100.0#	0	-5.22#
25		Endosulfan Sulfate	10.000	0.000	100.0#	0	-5.28#
26		Endrin Ketone	10.000	0.000	100.0#	0	-5.47#
27	s	Decachlorobiphenyl	10.000	0.000	100.0#	0	-6.15#
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	0	-1.72#
34	l2	toxaphene-1	2000.000	0.000	100.0#	0	-4.66#
35	l2	toxaphene-2	2000.000	0.000	100.0#	0	-4.75#
36	l2	toxaphene-4	2000.000	0.000	100.0#	0	-5.14#
37	l2	toxaphene-5	2000.000	0.000	100.0#	0	-5.21#

Signal #2

1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	0	-1.80#
2	s	2,4,5,6-Tetrachloro-m-xyl	10.000	0.000	100.0#	0	-2.38#
3		Hexachlorobenzene	10.000	0.000	100.0#	0	-2.71#
4		alpha-BHC	10.000	0.000	100.0#	0	-2.81#
5		gamma-BHC (lindane)	10.000	0.000	100.0#	0	-3.09#
6		beta-BHC	10.000	0.000	100.0#	0	-3.15#
7		delta-BHC	10.000	0.000	100.0#	0	-3.39#

Evaluate Continuing Calibration Report

Data Path : I:\Pest15\201028a\
Data File : 15201028a-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 28 Oct 2020   6:10 am
Operator : PEST15:sm
Sample   : wg1427385-2,42,, chlor pp 10129 (Sig #1); chlor pp 10129 (Sig #2)
Misc   : wg1427385,,ical17155
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 15:23:19 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 06:41:16 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
8		Heptachlor	10.000	0.000	100.0#	0	-3.44#
9		Aldrin	10.000	0.000	100.0#	0	-3.72#
10		Alachlor	10.000	0.000	100.0#	0	-3.62#
11		Chlorpyrifos	10.000	0.000	100.0#	0	-3.91#
12		Heptachlor Epoxide	10.000	0.000	100.0#	0	-4.20#
13		gamma-Chlordane (trans)	10.000	0.000	100.0#	0	-4.35#
14		alpha-Chlordane (cis)	10.000	0.000	100.0#	0	-4.46#
15		4,4'-DDE	10.000	0.000	100.0#	0	-4.60#
16		Endosulfan I	10.000	0.000	100.0#	0	-4.51#
17		Dieldrin	10.000	0.000	100.0#	0	-4.72#
18		Endrin	10.000	0.000	100.0#	0	-4.95#
19		4,4'-DDD	10.000	0.000	100.0#	0	-5.03#
20		Endosulfan II	10.000	0.000	100.0#	0	-5.10#
21		4,4'-DDT	10.000	0.000	100.0#	0	-5.25#
22		Endrin Aldehyde	10.000	0.000	100.0#	0	-5.34#
23		Methoxychlor	10.000	0.000	100.0#	0	-5.72#
24		Mirex	10.000	0.000	100.0#	0	-5.87#
25		Endosulfan Sulfate	10.000	0.000	100.0#	0	-5.53#
26		Endrin Ketone	10.000	0.000	100.0#	0	-5.89#
27	s	Decachlorobiphenyl	10.000	0.000	100.0#	0	-6.67#
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	0	-1.80#
34	l2	toxaphene-1	2000.000	0.000	100.0#	0	-5.06#
35	l2	toxaphene-2	2000.000	0.000	100.0#	0	-5.09#
36	l2	toxaphene-4	2000.000	0.000	100.0#	0	-5.34#
37	l2	toxaphene-5	2000.000	0.000	100.0#	0	-5.69#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\201028a\
Data File : 15201028a-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2020 6:10 am
Operator : PEST15:sm
Sample : wg1427385-2,42,, chlor pp 10129 (Sig #1); chlor pp 10129 (Sig #2)
Misc : wg1427385,,ical17155
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 15:23:19 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 06:41:16 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.723	1.801	141.8E6	67141491	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest15\201028a\
Data File : 15201028a-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2020 6:10 am
Operator : PEST15:sm
Sample : wg1427385-2,42,, chlor pp 10129 (Sig #1); chlor pp 10129 (Sig #2)
Misc : wg1427385,,ical17155
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 15:23:19 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 06:41:16 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.051	3.320	253.9E6	130.2E6	1168.417	1139.106
30)	l1	chlordane-3	3.442	3.841	252.3E6	127.5E6	1071.644	1144.671
31)	l1	chlordane-4	3.928	4.422f	871.8E6	332.3E6	1208.947	1119.453M3
32)	l1	chlordane-5	4.030	4.464	1216.2E6	327.8E6	1109.735	1120.273
	Sum	chlordane-1			2594.2E6	917.9E6	N.D.	N.D. D
Average		chlordane-1					1139.686	1130.876
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

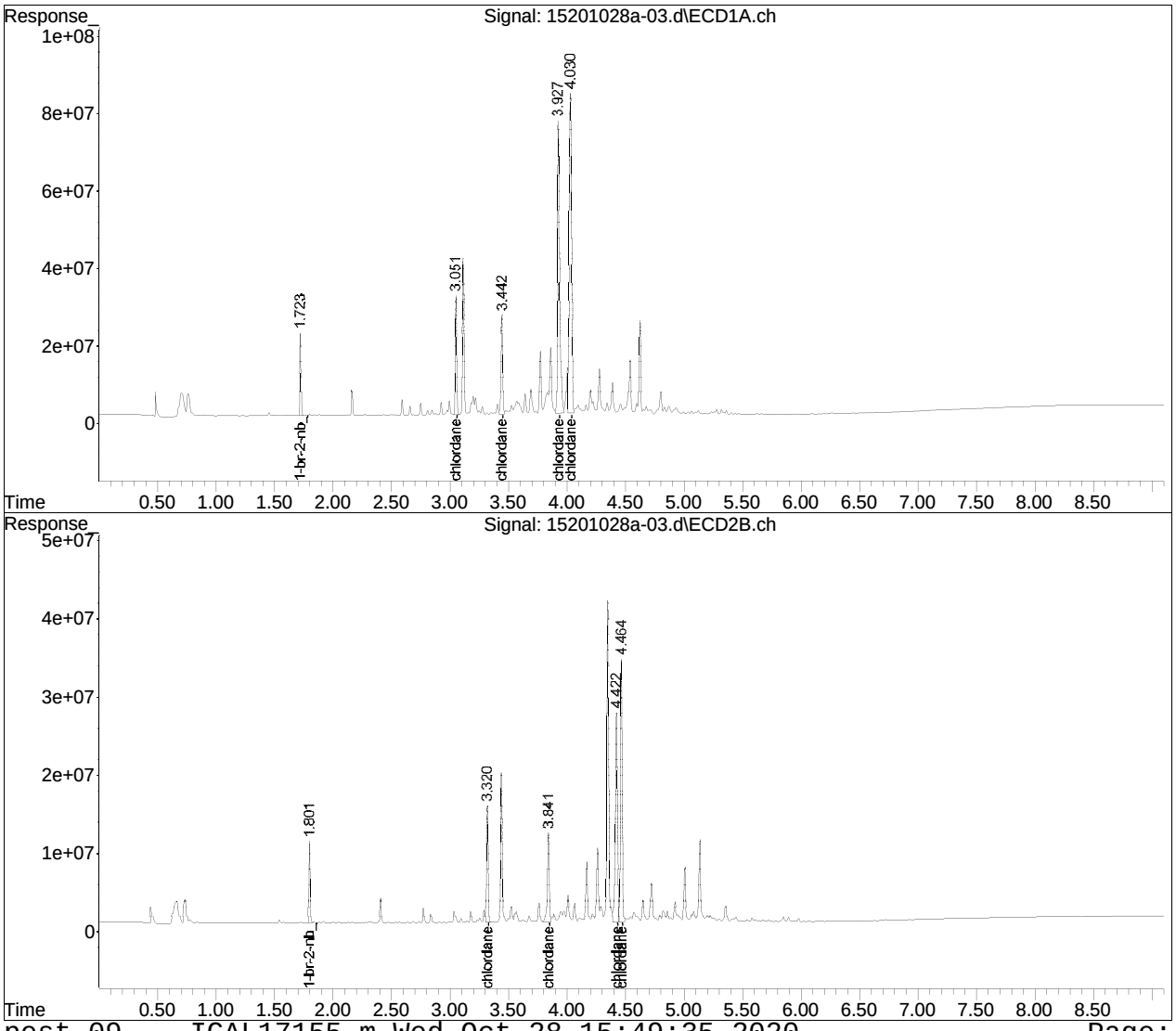
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest15\201028a\
Data File : 15201028a-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2020 6:10 am
Operator : PEST15:sm
Sample : wg1427385-2,42,, chlor pp 10129 (Sig #1); chlor pp 10129 (Sig #2)
Misc : wg1427385,,ical17155
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 15:23:19 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 06:41:16 2020
Response via : Initial Calibration
Integrator: ChemStation

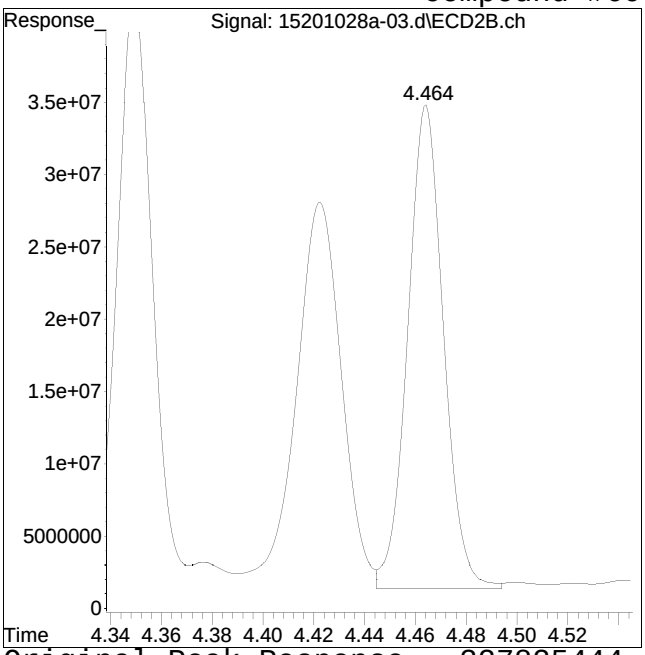
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

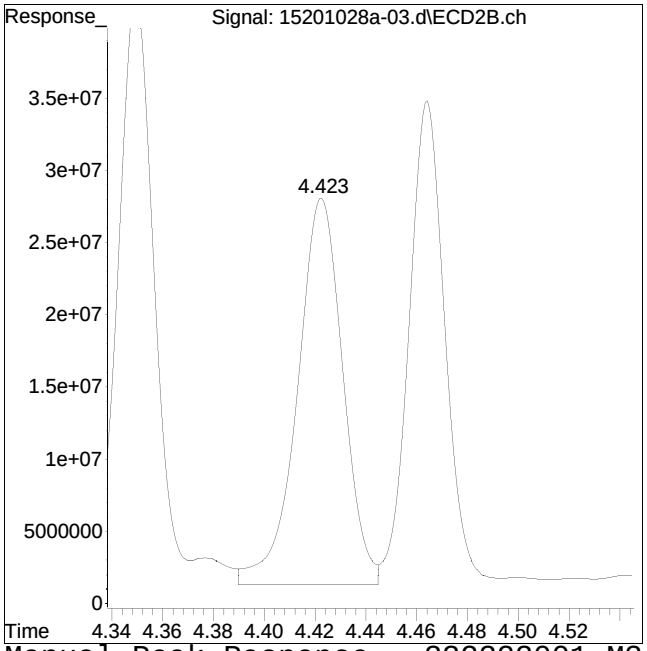


Manual Integration Report

Data Path : I:\Pest15\201028a\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15201028a-03.d Operator : PEST15:sm
Date Inj'd : 10/28/2020 6:10 am Instrument : Pest 15
Sample : wg1427385-2,42,, chlor pp Quant Date : 10/28/2020 6:41 am

Compound #69: chlordane-4 #2





Original Peak Response = 327825444 Manual Peak Response = 332323001 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\Pest15\201028a\
Data File : 15201028a-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 28 Oct 2020   6:23 am
Operator : PEST15:sm
Sample   : wg1427385-3,42,, tox pp 10098 (Sig #1); tox pp 10098 (Sig #2)
Misc   : wg1427385,,ical17155
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 06:44:59 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 06:43:37 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	119	0.00
34	l2	toxaphene-1	2000.000	2194.613	-9.7	127	0.00
35	l2	toxaphene-2	2000.000	1904.302	4.8	110	0.00
36	l2	toxaphene-4	2000.000	2376.973	-18.8	153	0.00
37	l2	toxaphene-5	2000.000	2112.046	-5.6	136	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	90	0.00
34	l2	toxaphene-1	2000.000	2138.312	-6.9	100	0.00
35	l2	toxaphene-2	2000.000	2152.018	-7.6	100	0.00
36	l2	toxaphene-4	2000.000	1945.515	2.7	92	0.00
37	l2	toxaphene-5	2000.000	2114.252	-5.7	96	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	0	-1.72#
2	s	2,4,5,6-Tetrachloro-m-xylen	10.000	0.000	100.0#	0	-2.19#
3		Hexachlorobenzene	10.000	0.000	100.0#	0	-2.44#
4		alpha-BHC	10.000	0.000	100.0#	0	-2.55#
5		gamma-BHC (lindane)	10.000	0.000	100.0#	0	-2.77#
6		beta-BHC	10.000	0.000	100.0#	0	-2.83#
7		delta-BHC	10.000	0.000	100.0#	0	-2.95#
8		Heptachlor	10.000	0.000	100.0#	0	-3.11#
9		Aldrin	10.000	0.000	100.0#	0	-3.34#
10		Alachlor	10.000	0.000	100.0#	0	-3.45#
11		Chlorpyrifos	10.000	0.000	100.0#	0	-3.53#
12		Heptachlor Epoxide	10.000	0.000	100.0#	0	-3.82#
13		gamma-Chlordane (trans)	10.000	0.000	100.0#	0	-3.93#

Data Path : I:\Pest15\201028a\
Data File : 15201028a-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 28 Oct 2020   6:23 am
Operator : PEST15:sm
Sample   : wg1427385-3,42,, tox pp 10098 (Sig #1); tox pp 10098 (Sig #2)
Misc   : wg1427385,,ical17155
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 06:44:59 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 06:43:37 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)	10.000	0.000	100.0#	0	-4.03#
15		4,4'-DDE	10.000	0.000	100.0#	0	-4.10#
16		Endosulfan I	10.000	0.000	100.0#	0	-4.14#
17		Dieldrin	10.000	0.000	100.0#	0	-4.33#
18		Endrin	10.000	0.000	100.0#	0	-4.50#
19		4,4'-DDD	10.000	0.000	100.0#	0	-4.56#
20		Endosulfan II	10.000	0.000	100.0#	0	-4.67#
21		4,4'-DDT	10.000	0.000	100.0#	0	-4.77#
22		Endrin Aldehyde	10.000	0.000	100.0#	0	-4.97#
23		Methoxychlor	10.000	0.000	100.0#	0	-5.13#
24		Mirex	10.000	0.000	100.0#	0	-5.22#
25		Endosulfan Sulfate	10.000	0.000	100.0#	0	-5.28#
26		Endrin Ketone	10.000	0.000	100.0#	0	-5.47#
27	s	Decachlorobiphenyl	10.000	0.000	100.0#	0	-6.15#
28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	0	-1.72#
29	l1	chlordane-1	1000.000	0.000	100.0#	0	-3.05#
30	l1	chlordane-3	1000.000	0.000	100.0#	0	-3.44#
31	l1	chlordane-4	1000.000	0.000	100.0#	0	-3.93#
32	l1	chlordane-5	1000.000	0.000	100.0#	0	-4.03#

Signal #2

1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	0	-1.80#
2	s	2,4,5,6-Tetrachloro-m-xyl	10.000	0.000	100.0#	0	-2.38#
3		Hexachlorobenzene	10.000	0.000	100.0#	0	-2.71#
4		alpha-BHC	10.000	0.000	100.0#	0	-2.81#
5		gamma-BHC (lindane)	10.000	0.000	100.0#	0	-3.09#
6		beta-BHC	10.000	0.000	100.0#	0	-3.15#
7		delta-BHC	10.000	0.000	100.0#	0	-3.39#

Evaluate Continuing Calibration Report

Data Path : I:\Pest15\201028a\
Data File : 15201028a-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 28 Oct 2020   6:23 am
Operator : PEST15:sm
Sample   : wg1427385-3,42,, tox pp 10098 (Sig #1); tox pp 10098 (Sig #2)
Misc   : wg1427385,,ical17155
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 06:44:59 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 06:43:37 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
8		Heptachlor	10.000	0.000	100.0#	0	-3.44#
9		Aldrin	10.000	0.000	100.0#	0	-3.72#
10		Alachlor	10.000	0.000	100.0#	0	-3.62#
11		Chlorpyrifos	10.000	0.000	100.0#	0	-3.91#
12		Heptachlor Epoxide	10.000	0.000	100.0#	0	-4.20#
13		gamma-Chlordane (trans)	10.000	0.000	100.0#	0	-4.35#
14		alpha-Chlordane (cis)	10.000	0.000	100.0#	0	-4.46#
15		4,4'-DDE	10.000	0.000	100.0#	0	-4.60#
16		Endosulfan I	10.000	0.000	100.0#	0	-4.51#
17		Dieldrin	10.000	0.000	100.0#	0	-4.72#
18		Endrin	10.000	0.000	100.0#	0	-4.95#
19		4,4'-DDD	10.000	0.000	100.0#	0	-5.03#
20		Endosulfan II	10.000	0.000	100.0#	0	-5.10#
21		4,4'-DDT	10.000	0.000	100.0#	0	-5.25#
22		Endrin Aldehyde	10.000	0.000	100.0#	0	-5.34#
23		Methoxychlor	10.000	0.000	100.0#	0	-5.72#
24		Mirex	10.000	0.000	100.0#	0	-5.87#
25		Endosulfan Sulfate	10.000	0.000	100.0#	0	-5.53#
26		Endrin Ketone	10.000	0.000	100.0#	0	-5.89#
27	s	Decachlorobiphenyl	10.000	0.000	100.0#	0	-6.67#
28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	0	-1.80#
29	l1	chlordane-1	1000.000	0.000	100.0#	0	-3.32#
30	l1	chlordane-3	1000.000	0.000	100.0#	0	-3.84#
31	l1	chlordane-4	1000.000	0.000	100.0#	0	-4.42#
32	l1	chlordane-5	1000.000	0.000	100.0#	0	-4.46#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\201028a\
Data File : 15201028a-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2020 6:23 am
Operator : PEST15:sm
Sample : wg1427385-3,42,, tox pp 10098 (Sig #1); tox pp 10098 (Sig #2)
Misc : wg1427385,,ical17155
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 06:44:59 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 06:43:37 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.723	1.800	131.8E6	60582653	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\201028a\
Data File : 15201028a-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2020 6:23 am
Operator : PEST15:sm
Sample : wg1427385-3,42,, tox pp 10098 (Sig #1); tox pp 10098 (Sig #2)
Misc : wg1427385,,ical17155
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 06:44:59 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 06:43:37 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.
Average		chlordane-1					0.000	0.000
34)	l2	toxaphene-1	4.660	5.063	562.0E6	102.4E6	2194.613	2138.312
35)	l2	toxaphene-2	4.750	5.089	668.0E6	159.1E6	1904.302M3	2152.018
36)	l2	toxaphene-4	5.143	5.342	480.4E6	169.6E6	2376.973M3	1945.515
37)	l2	toxaphene-5	5.210	5.693	393.9E6	160.2E6	2112.046	2114.252
	Sum	toxaphene-1			2104.3E6	591.4E6	8587.934	8350.097
Average		toxaphene-1					2146.984	2087.524

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			2104.3E6	591.4E6	8587.934	8350.097
Average		toxaphene-1					2146.984	2087.524

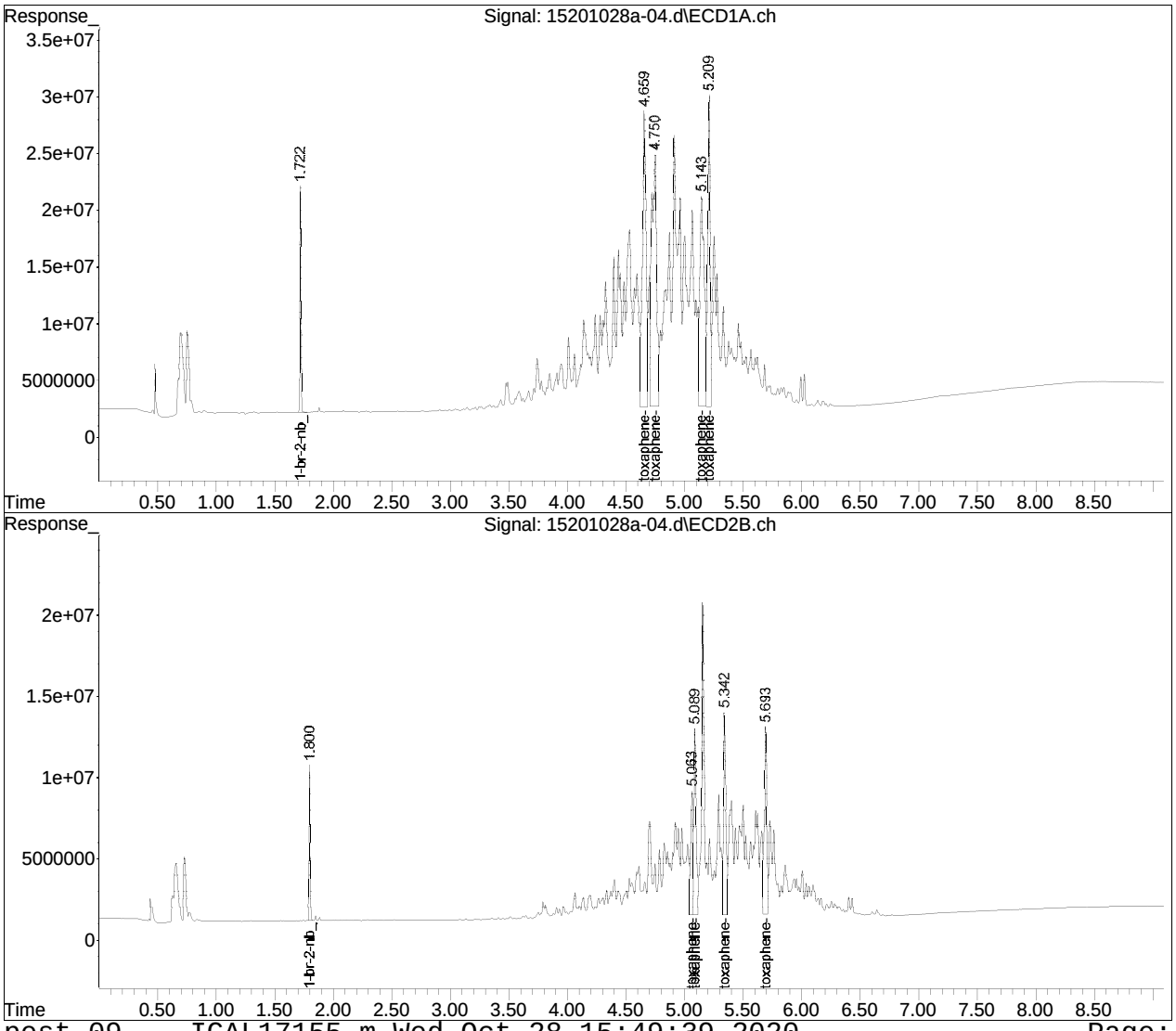
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest15\201028a\
Data File : 15201028a-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2020 6:23 am
Operator : PEST15:sm
Sample : wg1427385-3,42,, tox pp 10098 (Sig #1); tox pp 10098 (Sig #2)
Misc : wg1427385,,ical17155
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 06:44:59 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 06:43:37 2020
Response via : Initial Calibration
Integrator: ChemStation

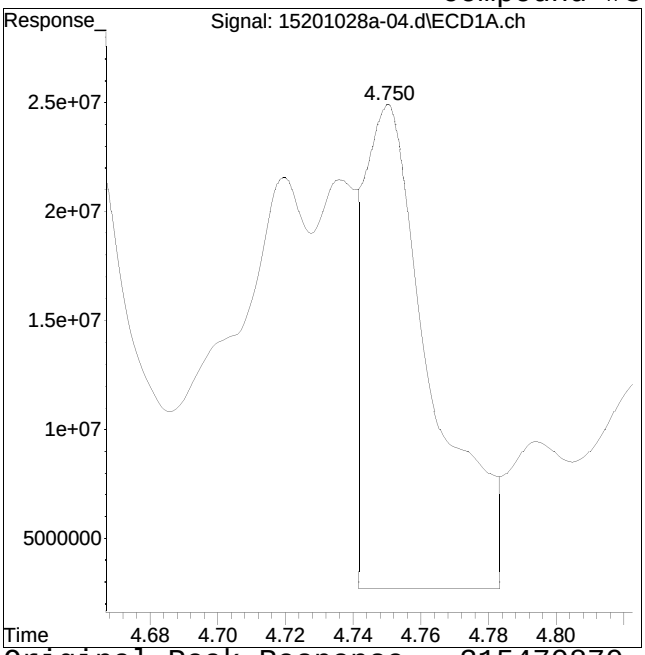
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

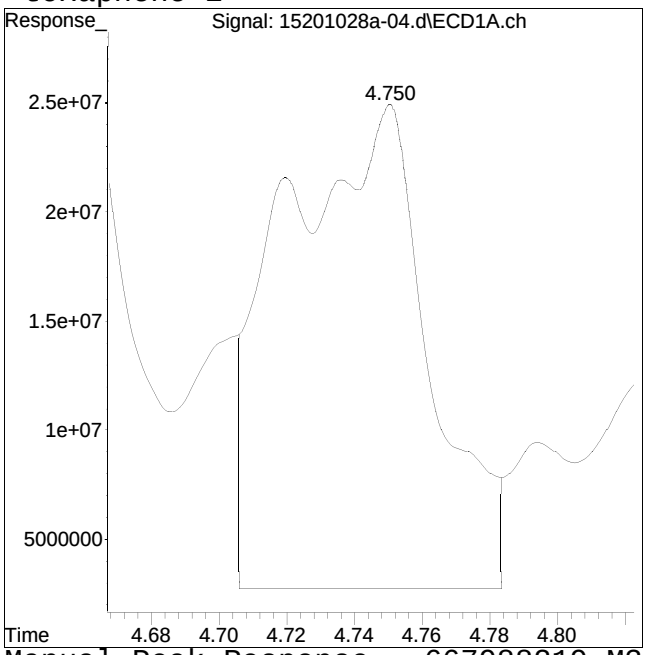


Manual Integration Report

Data Path : I:\Pest15\201028a\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15201028a-04.d Operator : PEST15:sm
Date Inj'd : 10/28/2020 6:23 am Instrument : Pest 15
Sample : wg1427385-3,42,, tox pp 10 Quant Date : 10/28/2020 6:43 am

Compound #35: toxaphene-2



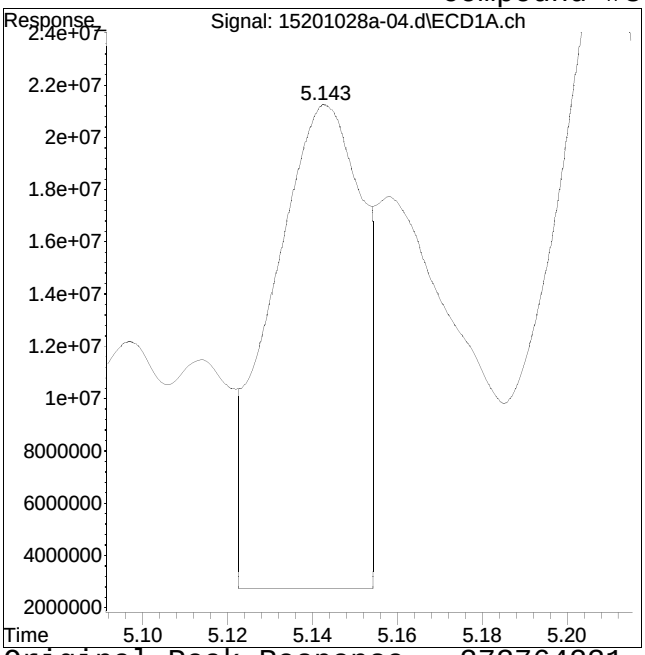


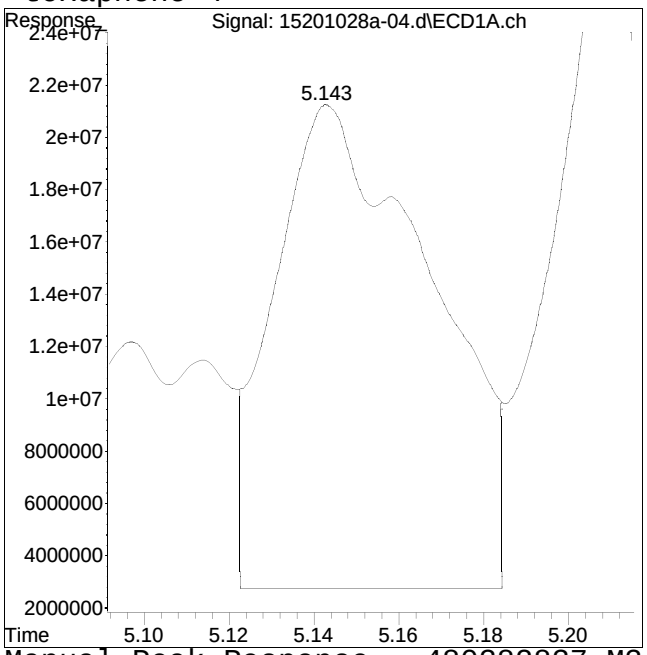
Original Peak Response = 315470870 Manual Peak Response = 667988219 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\Pest15\201028a\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15201028a-04.d Operator : PEST15:sm
Date Inj'd : 10/28/2020 6:23 am Instrument : Pest 15
Sample : wg1427385-3,42,, tox pp 10 Quant Date : 10/28/2020 6:43 am

Compound #36: toxaphene-4





Original Peak Response = 273764231 Manual Peak Response = 480382837 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\Pest15\201028a\
Data File : 15201028a-24.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 28 Oct 2020 11:32 am
Operator : PEST15:sm
Sample   : wg1427385-4,42,, pest pp 10168 (Sig #1); pest pp 10168 (Sig #2)
Misc   : wg1427385,ical17155
ALS Vial : 24   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 11:58:35 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 06:43:37 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	146	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	50.000	54.620	-9.2	165	0.00
3		Hexachlorobenzene	50.000	52.512	-5.0	165	0.00
4		alpha-BHC	50.000	56.893	-13.8	159	0.00
5		gamma-BHC (lindane)	50.000	53.902	-7.8	154	0.00
6		beta-BHC	50.000	48.403	3.2	149	0.00
7		delta-BHC	50.000	57.684	-15.4	161	0.00
8		Heptachlor	50.000	50.898	-1.8	151	0.00
9		Aldrin	50.000	57.689	-15.4	162	0.00
10		Alachlor	50.000	53.630	-7.3	167	0.00
11		Chlorpyrifos	50.000	46.383	7.2	158	0.00
12		Heptachlor Epoxide	50.000	52.615	-5.2	158	0.00
13		gamma-Chlordane (trans)	50.000	55.125	-10.3	163	0.00
14		alpha-Chlordane (cis)	50.000	50.121	-0.2	155	0.00
15		4,4'-DDE	50.000	57.391	-14.8	161	0.00
16		Endosulfan I	50.000	54.601	-9.2	160	0.00
17		Dieldrin	50.000	60.023	-20.0#	172	0.00
18		Endrin	50.000	56.165	-12.3	163	0.00
19		4,4'-DDD	50.000	59.624	-19.2	167	0.00
20		Endosulfan II	50.000	51.820	-3.6	155	0.00
21		4,4'-DDT	50.000	53.072	-6.1	153	0.00
22		Endrin Aldehyde	50.000	47.001	6.0	143	0.00
23		Methoxychlor	50.000	44.759	10.5	142	0.00
24		Mirex	50.000	44.169	11.7	154	0.00
25		Endosulfan Sulfate	50.000	49.976	0.0	155	0.00
26		Endrin Ketone	50.000	48.595	2.8	148	0.00
27	s	Decachlorobiphenyl	50.000	48.207	3.6	160	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\Pest15\201028a\
Data File : 15201028a-24.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 28 Oct 2020 11:32 am
Operator : PEST15:sm
Sample   : wg1427385-4,42,, pest pp 10168 (Sig #1); pest pp 10168 (Sig #2)
Misc   : wg1427385,ical17155
ALS Vial : 24   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 11:58:35 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 06:43:37 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	114	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl	50.000	58.019	-16.0	135	0.00
3		Hexachlorobenzene	50.000	54.529	-9.1	134	0.00
4		alpha-BHC	50.000	57.228	-14.5	120	0.00
5		gamma-BHC (lindane)	50.000	54.579	-9.2	119	0.00
6		beta-BHC	50.000	47.118	5.8	117	0.00
7		delta-BHC	50.000	57.179	-14.4	123	0.00
8		Heptachlor	50.000	49.983	0.0	114	0.00
9		Aldrin	50.000	58.155	-16.3	125	0.00
10		Alachlor	50.000	55.738	-11.5	139	0.00
11		Chlorpyrifos	50.000	50.937	-1.9	136	0.00
12		Heptachlor Epoxide	50.000	51.893	-3.8	122	0.00
13		gamma-Chlordane (trans)	50.000	53.062	-6.1	123	0.00
14		alpha-Chlordane (cis)	50.000	52.118	-4.2	124	0.00
15		4,4'-DDE	50.000	58.230	-16.5	128	0.00
16		Endosulfan I	50.000	54.102	-8.2	125	0.00
17		Dieldrin	50.000	58.494	-17.0	132	0.00
18		Endrin	50.000	54.372	-8.7	124	0.00
19		4,4'-DDD	50.000	59.952	-19.9	134	0.00
20		Endosulfan II	50.000	49.731	0.5	122	0.00
21		4,4'-DDT	50.000	47.113	5.8	112	0.00
22		Endrin Aldehyde	50.000	44.705	10.6	109	0.00
23		Methoxychlor	50.000	47.708	4.6	120	0.00
24		Mirex	50.000	47.845	4.3	138	0.00
25		Endosulfan Sulfate	50.000	56.527	-13.1	139	0.00
26		Endrin Ketone	50.000	50.607	-1.2	121	0.00
27	s	Decachlorobiphenyl	50.000	50.805	-1.6	136	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\Pest15\201028a\
Data File : 15201028a-24.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 28 Oct 2020 11:32 am
Operator : PEST15:sm
Sample   : wg1427385-4,42,, pest pp 10168 (Sig #1); pest pp 10168 (Sig #2)
Misc   : wg1427385,ical17155
ALS Vial : 24   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 11:58:35 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 06:43:37 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	0	-1.72#
29	l1	chlordane-1	2500.000	0.000	100.0#	0	-3.05#
30	l1	chlordane-3	2500.000	0.000	100.0#	0	-3.44#
31	l1	chlordane-4	2500.000	0.000	100.0#	0	-3.93#
32	l1	chlordane-5	2500.000	0.000	100.0#	0	-4.03#
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	0	-1.72#
34	l2	toxaphene-1	5000.000	0.000	100.0#	0	-4.66#
35	l2	toxaphene-2	5000.000	0.000	100.0#	0	-4.75#
36	l2	toxaphene-4	5000.000	0.000	100.0#	0	-5.14#
37	l2	toxaphene-5	5000.000	0.000	100.0#	0	-5.21#

Signal #2

28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	0	-1.80#
29	l1	chlordane-1	2500.000	0.000	100.0#	0	-3.32#
30	l1	chlordane-3	2500.000	0.000	100.0#	0	-3.84#
31	l1	chlordane-4	2500.000	0.000	100.0#	0	-4.42#
32	l1	chlordane-5	2500.000	0.000	100.0#	0	-4.46#
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	0	-1.80#
34	l2	toxaphene-1	5000.000	0.000	100.0#	0	-5.06#
35	l2	toxaphene-2	5000.000	0.000	100.0#	0	-5.09#
36	l2	toxaphene-4	5000.000	0.000	100.0#	0	-5.34#
37	l2	toxaphene-5	5000.000	0.000	100.0#	0	-5.69#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\201028a\
Data File : 15201028a-24.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2020 11:32 am
Operator : PEST15:sm
Sample : wg1427385-4,42,, pest pp 10168 (Sig #1); pest pp 10168 (Sig #2)
Misc : wg1427385,ical17155
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 11:58:35 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 06:43:37 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.727	1.804	147.4E6	69652189	25.000M4	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.197	2.381	339.7E6	184.5E6	54.620	58.019
	Spiked Amount 50.000	Range 30 - 150		Recovery =		109.24%	116.04%
27) s	Decachlorobi	6.149	6.667	214.7E6	108.8E6	48.207	50.805
	Spiked Amount 50.000	Range 30 - 150		Recovery =		96.41%	101.61%
	Target Compounds						
3)	Hexachlorobe	2.443	2.714	377.3E6	201.6E6	52.512	54.529
4)	alpha-BHC	2.554	2.814	442.0E6	224.6E6	56.893	57.228
5)	gamma-BHC (l	2.768	3.086	396.6E6	201.7E6	53.902	54.579
6)	beta-BHC	2.828	3.150	185.8E6	93781256	48.403	47.118
7)	delta-BHC	2.956	3.390	418.2E6	210.1E6	57.684	57.179
8)	Heptachlor	3.116	3.441	379.3E6	190.5E6	50.898	49.983
9)	Aldrin	3.343	3.716	366.3E6	184.9E6	57.689	58.155
10)	Alachlor	3.452	3.618	56030070	31426732	53.630	55.738
11)	Chlorpyrifos	3.535	3.908	183.3E6	101.6E6	46.383	50.937
12)	Heptachlor E	3.824	4.196	343.1E6	165.0E6	52.615	51.893
13)	gamma-Chlord	3.928	4.350	359.2E6	170.4E6	55.125	53.062
14)	alpha-Chlord	4.035	4.464	335.6E6	159.8E6	50.121	52.118
15)	4,4'-DDE	4.104	4.595	344.9E6	158.2E6	57.391	58.230
16)	Endosulfan I	4.139	4.509	316.1E6	146.8E6	54.601	54.102
17)	Dieldrin	4.327	4.720	352.9E6	160.7E6	60.023M4	58.494
18)	Endrin	4.503	4.947	341.1E6	149.3E6	56.165	54.372
19)	4,4'-DDD	4.564	5.027	276.1E6	125.7E6	59.624M4	59.952M4
20)	Endosulfan I	4.671	5.103	294.7E6	132.0E6	51.820	49.731
21)	4,4'-DDT	4.774	5.250	295.9E6	122.2E6	53.072	47.113
22)	Endrin Aldeh	4.974	5.340	217.2E6	97360073	47.001	44.705

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\201028a\
Data File : 15201028a-24.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2020 11:32 am
Operator : PEST15:sm
Sample : wg1427385-4,42,, pest pp 10168 (Sig #1); pest pp 10168 (Sig #2)
Misc : wg1427385,ical17155
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 11:58:35 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 06:43:37 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	5.136	5.723	143.8E6	68447276	44.759	47.708
24)	Mirex	5.217	5.867	233.4E6	106.6E6	44.169	47.845
25)	Endosulfan S	5.280	5.529	248.4E6	131.7E6	49.976	56.527
26)	Endrin Keton	5.470	5.892	281.0E6	136.3E6	48.595	50.607
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

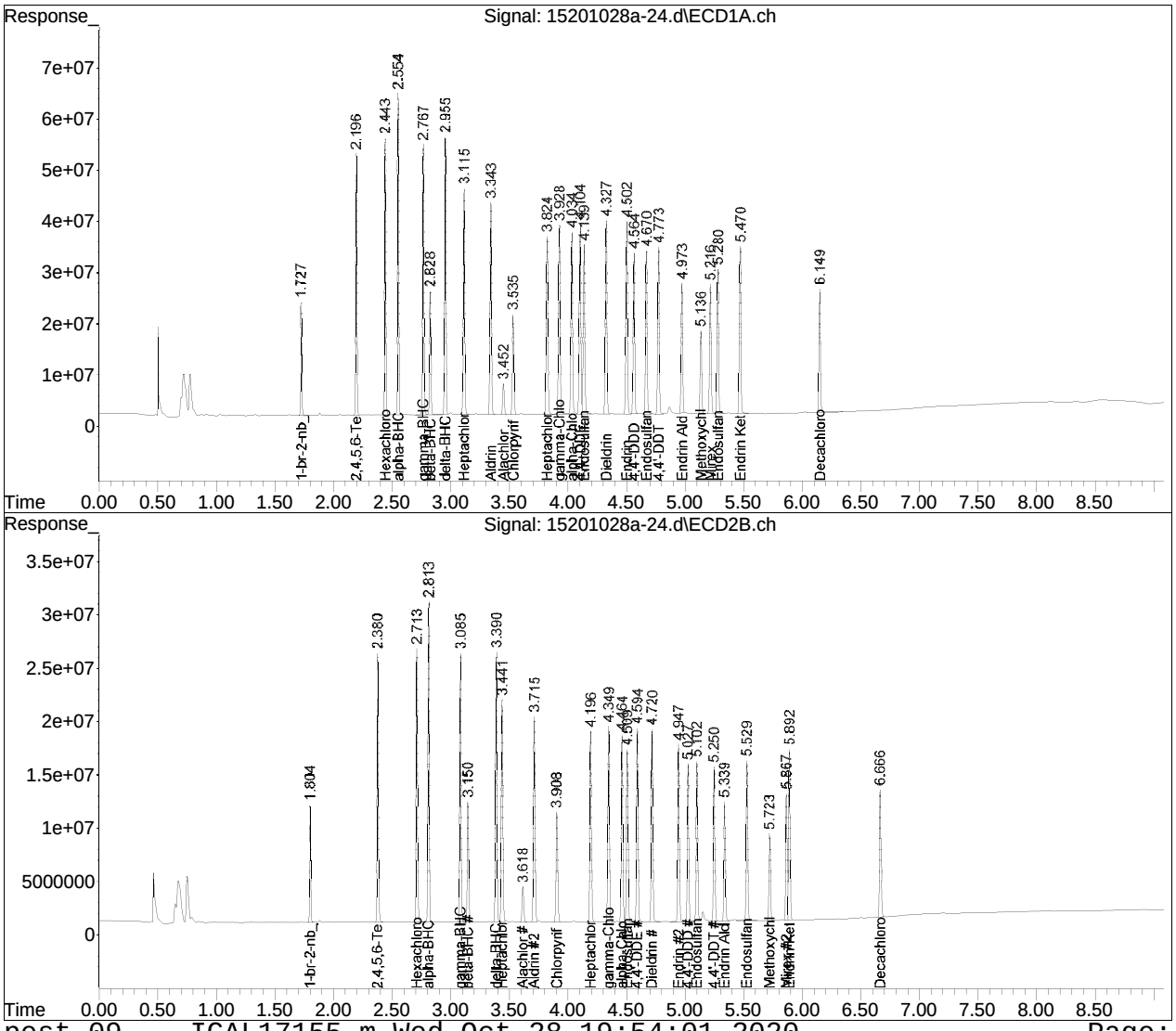
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest15\201028a\
Data File : 15201028a-24.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2020 11:32 am
Operator : PEST15:sm
Sample : wg1427385-4,42,, pest pp 10168 (Sig #1); pest pp 10168 (Sig #2)
Misc : wg1427385,ical17155
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 11:58:35 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 06:43:37 2020
Response via : Initial Calibration
Integrator: ChemStation

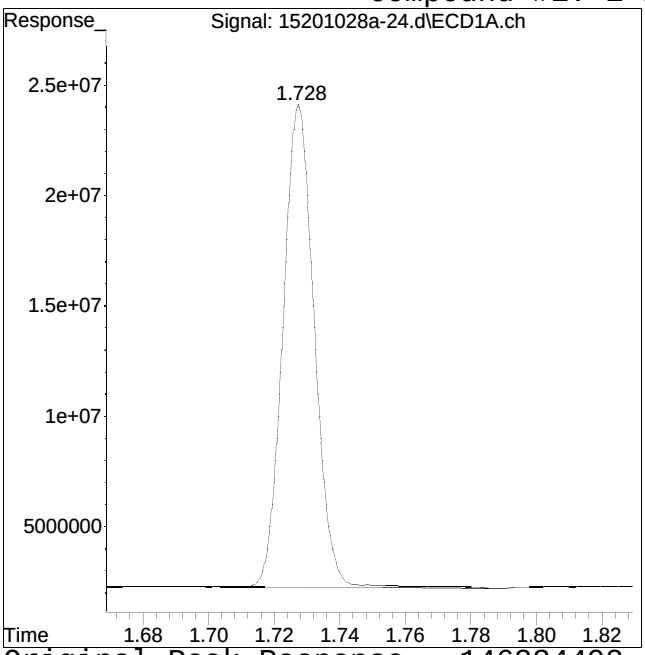
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



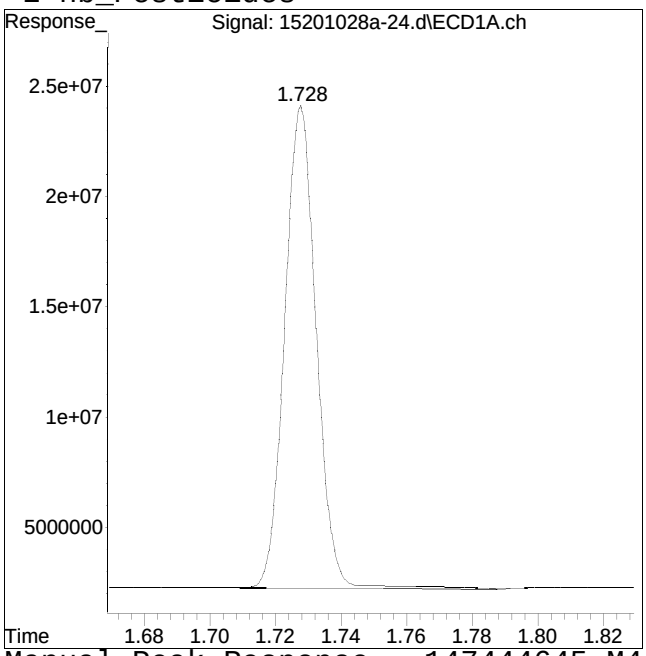
Manual Integration Report

Data Path : I:\Pest15\201028a\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15201028a-24.d Operator : PEST15:sm
Date Inj'd : 10/28/2020 11:32 am Instrument : Pest 15
Sample : wg1427385-4,42,, pest pp 1Quant Date : 10/28/2020 11:55 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 146334492



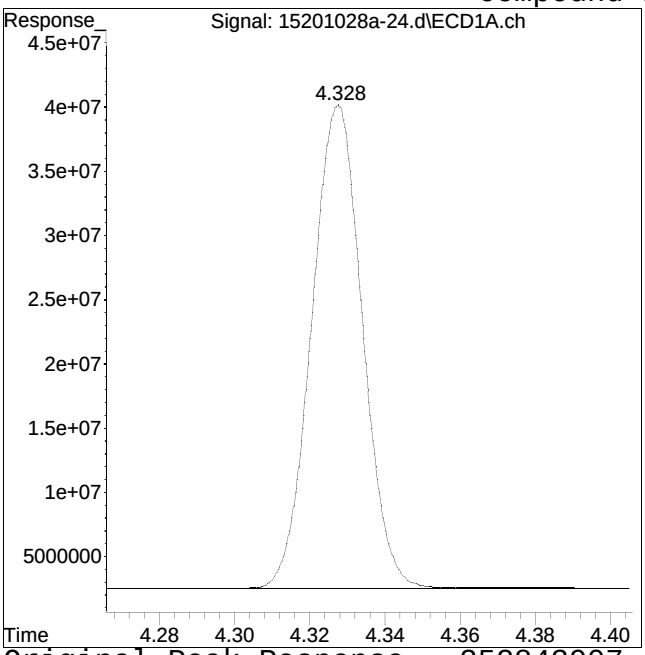
Manual Peak Response = 147444645 M4

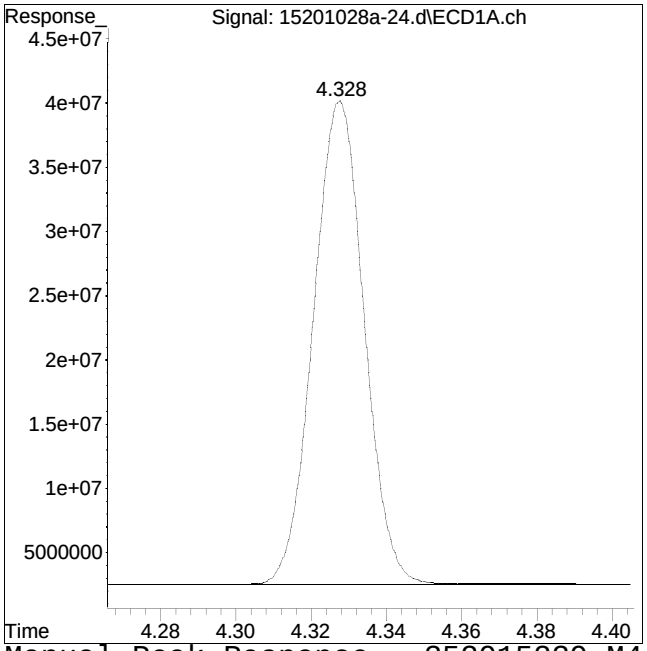
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest15\201028a\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15201028a-24.d Operator : PEST15:sm
Date Inj'd : 10/28/2020 11:32 am Instrument : Pest 15
Sample : wg1427385-4,42,, pest pp 1Quant Date : 10/28/2020 11:55 am

Compound #17: Dieldrin



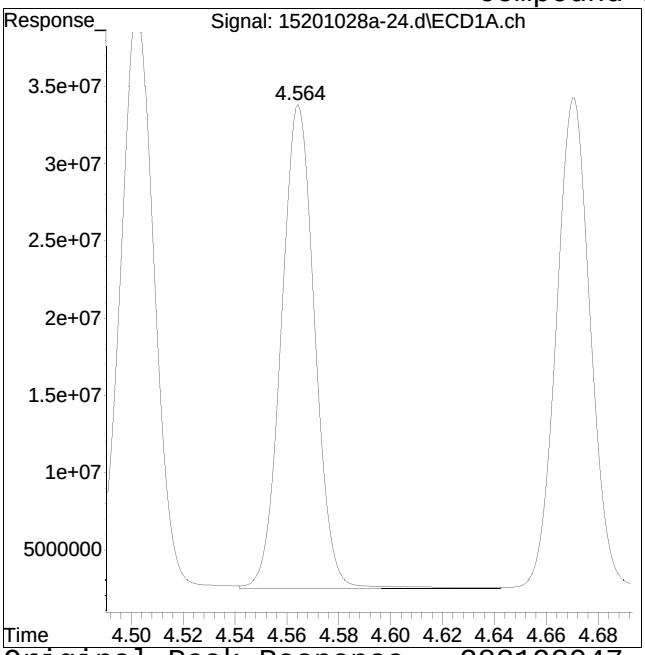


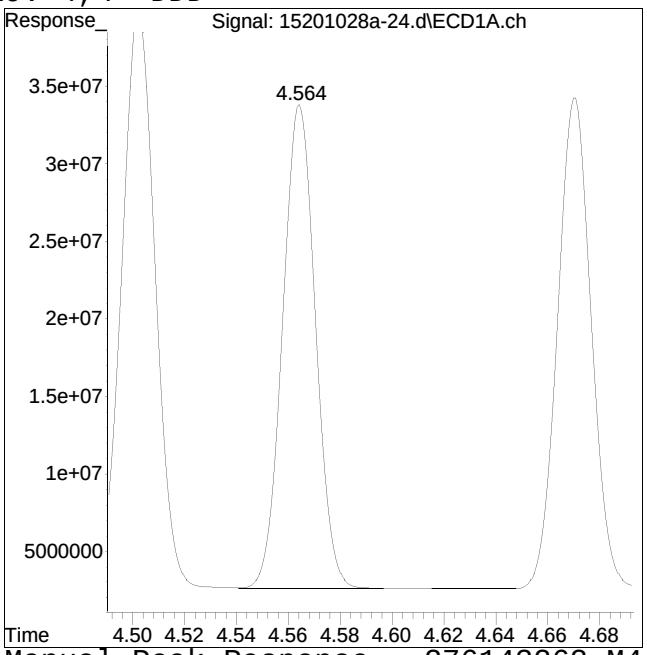
Original Peak Response = 352843907 Manual Peak Response = 352915239 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest15\201028a\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15201028a-24.d Operator : PEST15:sm
Date Inj'd : 10/28/2020 11:32 am Instrument : Pest 15
Sample : wg1427385-4,42,, pest pp 1Quant Date : 10/28/2020 11:55 am

Compound #19: 4,4'-DDD



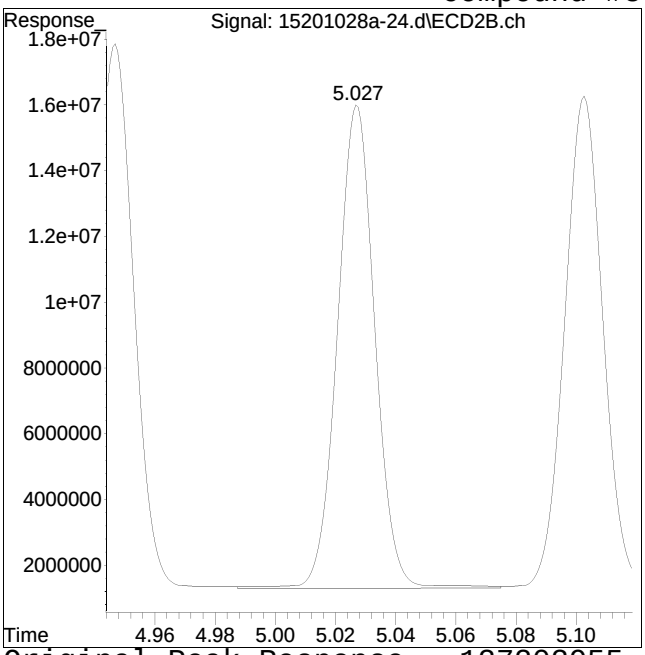


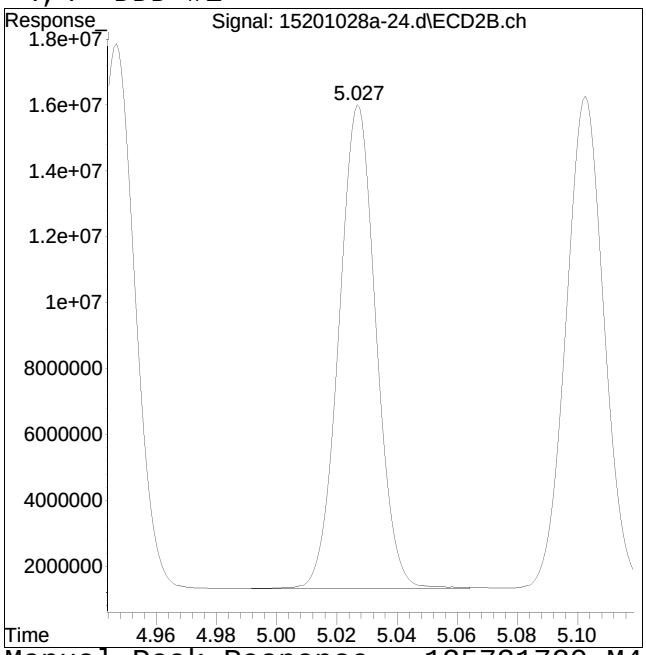
Original Peak Response = 283192947 Manual Peak Response = 276143262 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest15\201028a\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15201028a-24.d Operator : PEST15:sm
Date Inj'd : 10/28/2020 11:32 am Instrument : Pest 15
Sample : wg1427385-4,42,, pest pp 1Quant Date : 10/28/2020 11:55 am

Compound #57: 4,4'-DDD #2





Original Peak Response = 127202955 Manual Peak Response = 125731720 M4
M4 = Poor automated baseline construction.

Degradation Check Standard

Performance Evaluation Mixture Summary
Form 15
Pesticides

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: PEST15	**Analysis Date**	: 10/27/20 08:49
PEM Standard	: R1365660-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	613939.3004	274696.41149
Endrin	287721307.0625	123580950.25
4,4'-DDD	1375604.3025	715156.6892
4,4'-DDT	480502555.56119	217853191.85318
Endrin Aldehyde	1483798.857	677977.15453
Endrin Ketone	1833189.0988	675186.4111

Parameter	%Breakdown 1	%Breakdown 2
Endrin	1.14	1.08
DDT	0.412	0.452

Performance Evaluation Mixture Summary
Form 15
Pesticides

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: PEST15	**Analysis Date**	: 10/28/20 05:44
PEM Standard	: R1366368-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	1013448.832	435075.0876
Endrin	305548604.3125	140252565.6875
4,4'-DDD	1433126.39	617389.688
4,4'-DDT	509177076.51937	254652409.84531
Endrin Aldehyde	590672.4676	799325.49977
Endrin Ketone	1765152.2465	732321.7908

Parameter	%Breakdown 1	%Breakdown 2
Endrin	0.765	1.08
DDT	0.478	0.412

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\201027b\
Data File : 15201027b-01.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 8:49 am
Operator : PEST15:sm
Sample : pem15201027b01,42ee,,deg pp 10100 (Sig #1); deg pp 10100 (Sig #2)
Misc : wg1426984,ical17155
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 09:15:43 2020
Quant Method : I:\Pest15\201027b\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Tue Oct 27 08:28:24 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.754	1.827	125.5E6	57146254	25.000	25.000
	System Monitoring Compounds						
	Target Compounds						
15)	4,4'-DDE	4.144	4.626	613939	274696	0.120M4	0.123M4
18)	Endrin	4.542	4.981	287.7E6	123.6E6	55.653	54.872
19)	4,4'-DDD	4.602	5.058	1375604	715157	0.349M3	0.416M2
21)	4,4'-DDT	4.811	5.282	480.5E6	217.9E6	101.239	102.339
22)	Endrin Aldeh	5.007	5.373	1483799	677977	0.377M2	0.379M2
26)	Endrin Keton	5.508	5.925	1833189	675186	0.372M2	0.306M2
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

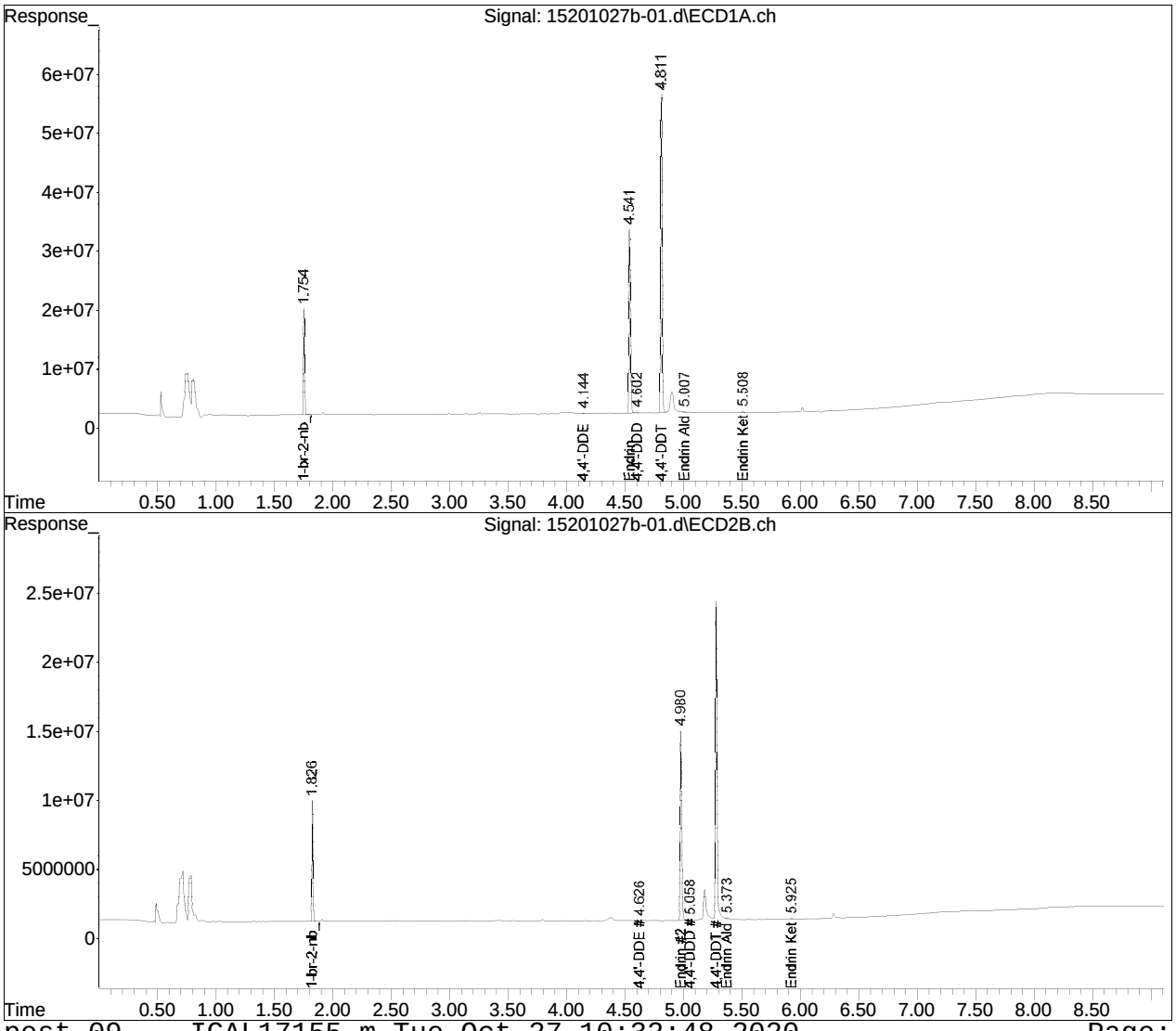
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\Pest15\201027b\
Data File : 15201027b-01.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 8:49 am
Operator : PEST15:sm
Sample : pem15201027b01,42ee,,deg pp 10100 (Sig #1); deg pp 10100 (Sig #2)
Misc : wg1426984,ical17155
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 09:15:43 2020
Quant Method : I:\Pest15\201027b\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Tue Oct 27 08:28:24 2020
Response via : Initial Calibration
Integrator: ChemStation

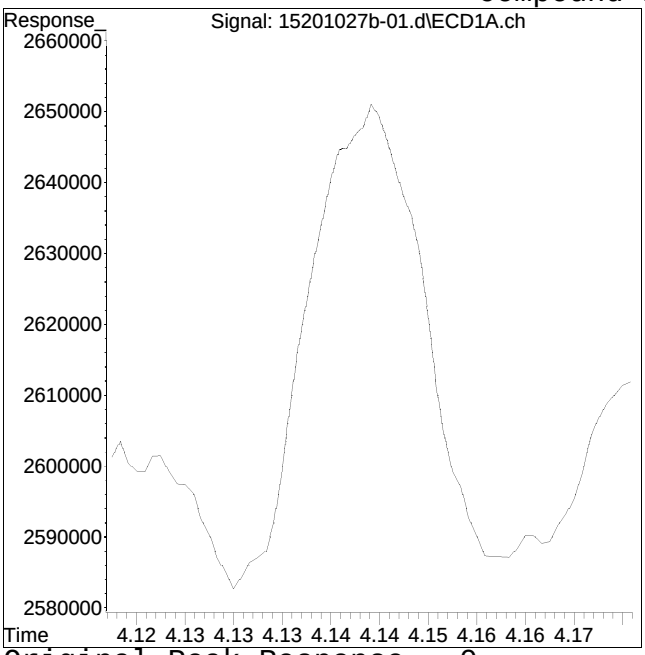
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



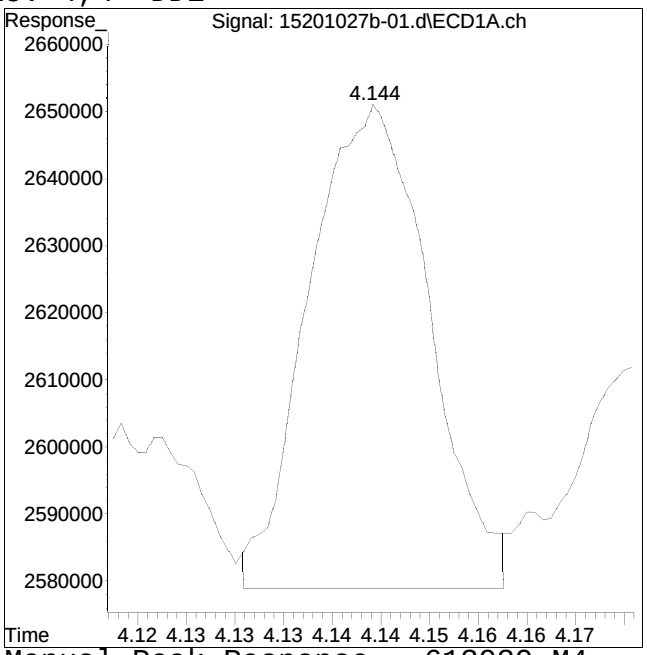
Manual Integration Report

Data Path : I:\Pest15\201027b\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15201027b-01.d Operator : PEST15:sm
Date Inj'd : 10/27/2020 8:49 am Instrument : Pest 15
Sample : pem15201027b01,42ee,,deg pQuant Date : 10/27/2020 9:13 am

Compound #15: 4,4'-DDE



Original Peak Response = 0



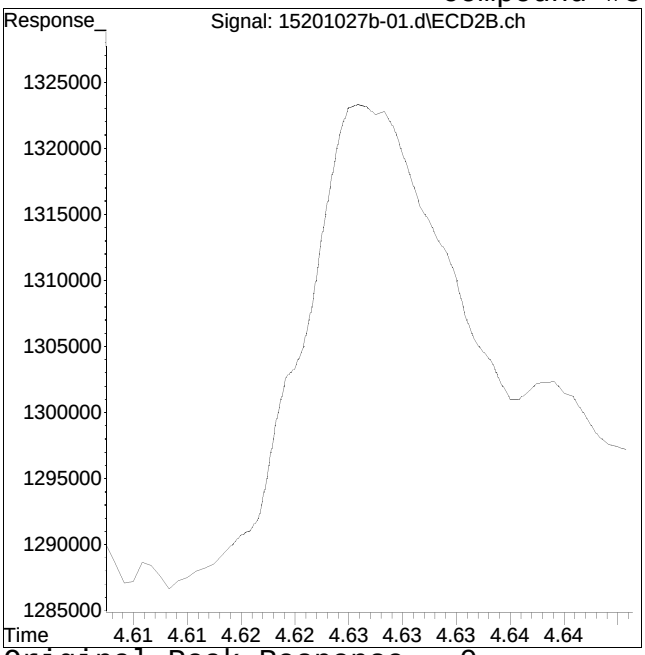
Manual Peak Response = 613939 M4

M4 = Poor automated baseline construction.

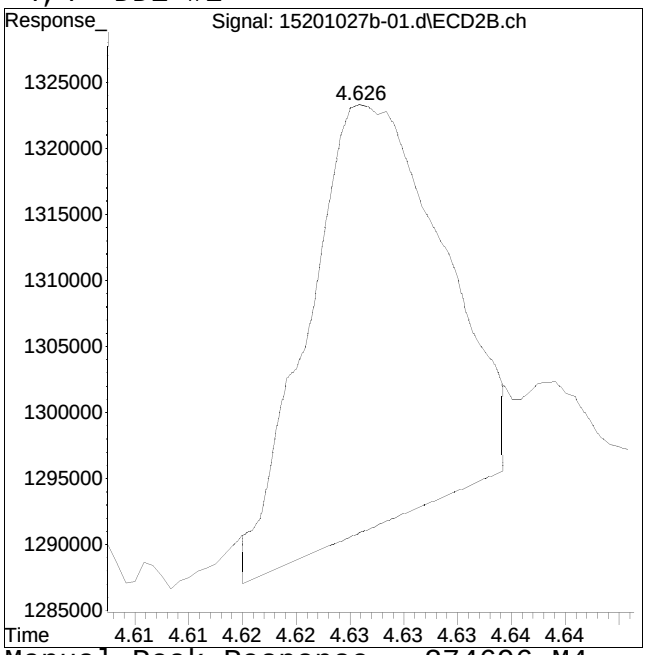
Manual Integration Report

Data Path : I:\Pest15\201027b\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15201027b-01.d Operator : PEST15:sm
Date Inj'd : 10/27/2020 8:49 am Instrument : Pest 15
Sample : pem15201027b01,42ee,,deg pQuant Date : 10/27/2020 9:13 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 0



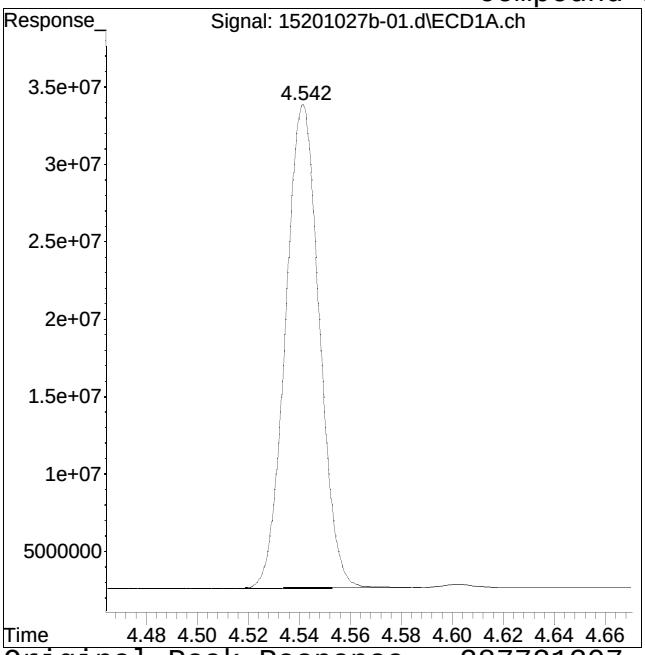
Manual Peak Response = 274696 M4

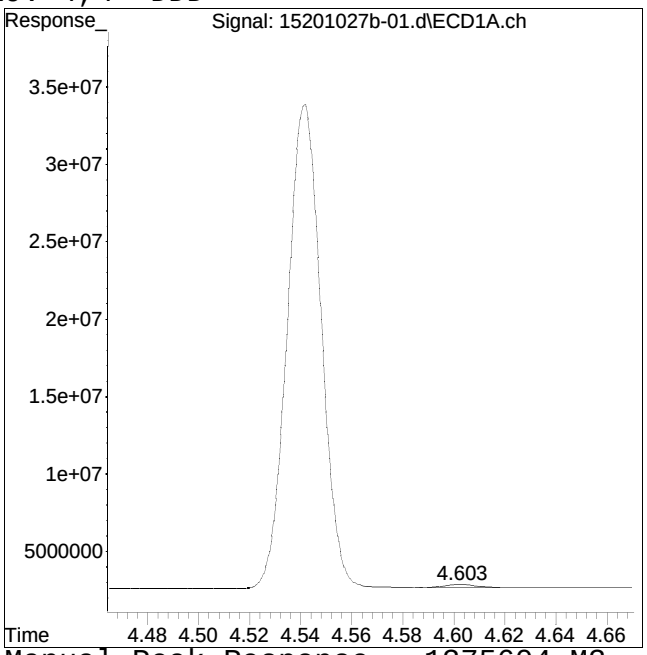
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest15\201027b\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15201027b-01.d Operator : PEST15:sm
Date Inj'd : 10/27/2020 8:49 am Instrument : Pest 15
Sample : pem15201027b01,42ee,,deg pQuant Date : 10/27/2020 9:13 am

Compound #19: 4,4'-DDD



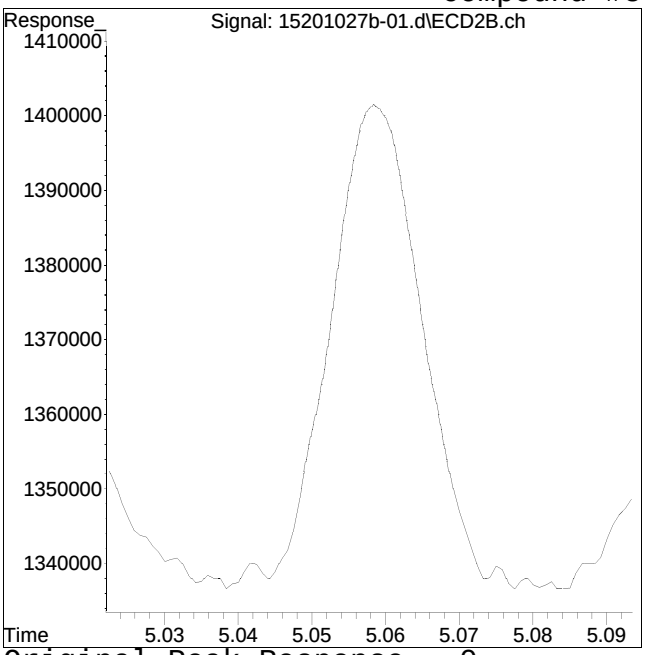


Original Peak Response = 287721307 Manual Peak Response = 1375604 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

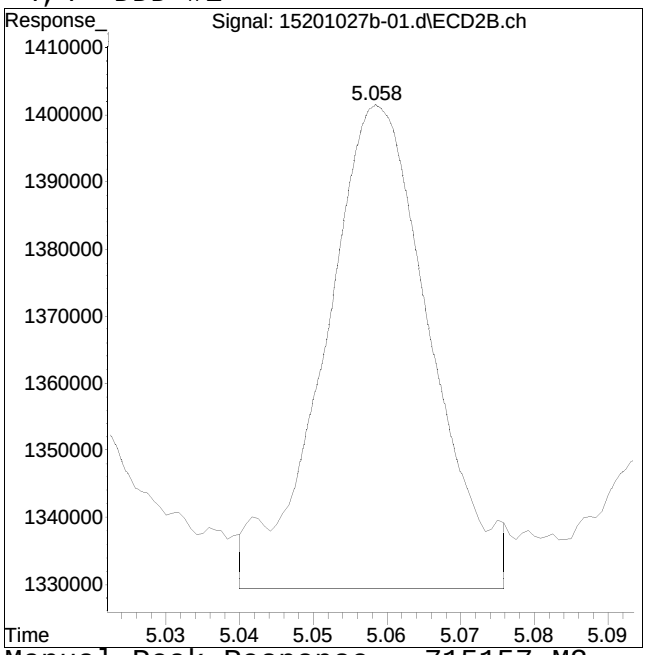
Manual Integration Report

Data Path : I:\Pest15\201027b\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15201027b-01.d Operator : PEST15:sm
Date Inj'd : 10/27/2020 8:49 am Instrument : Pest 15
Sample : pem15201027b01,42ee,,deg pQuant Date : 10/27/2020 9:13 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 0



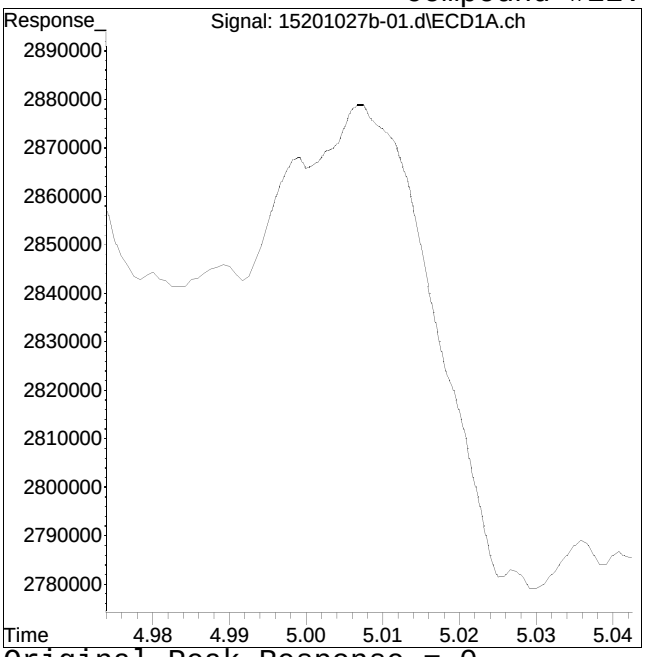
Manual Peak Response = 715157 M2

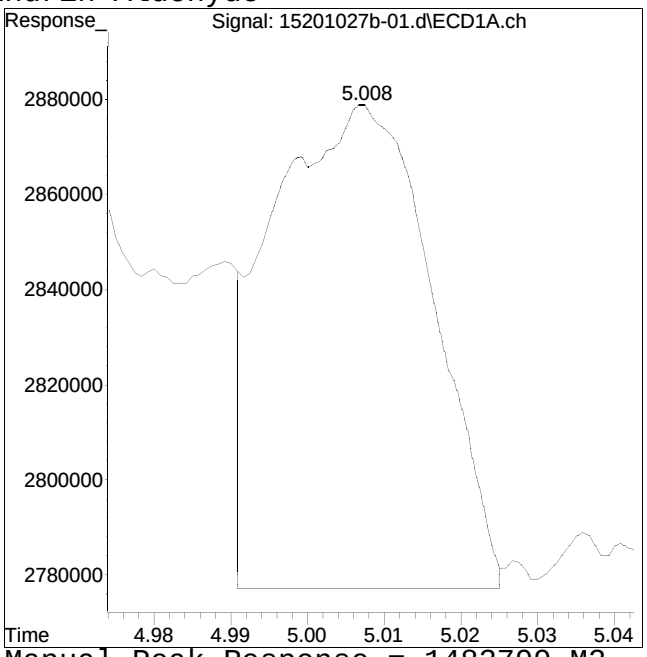
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest15\201027b\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15201027b-01.d Operator : PEST15:sm
Date Inj'd : 10/27/2020 8:49 am Instrument : Pest 15
Sample : pem15201027b01,42ee,,deg pQuant Date : 10/27/2020 9:13 am

Compound #22: Endrin Aldehyde



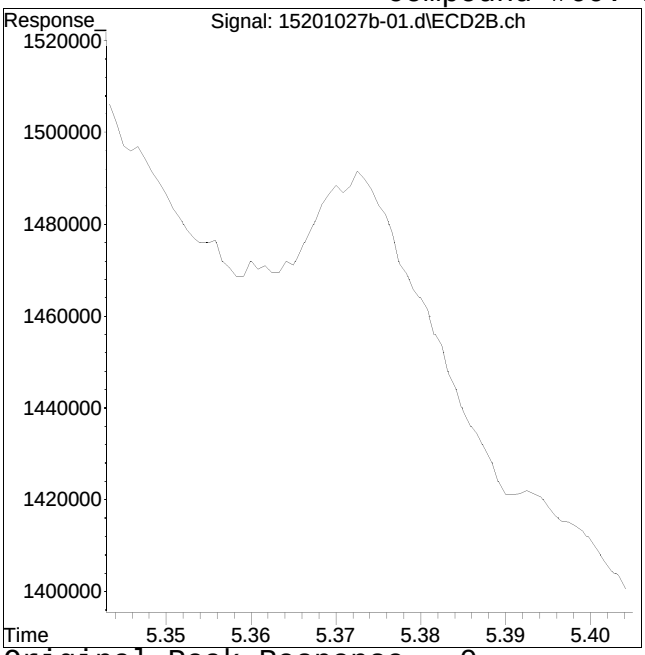


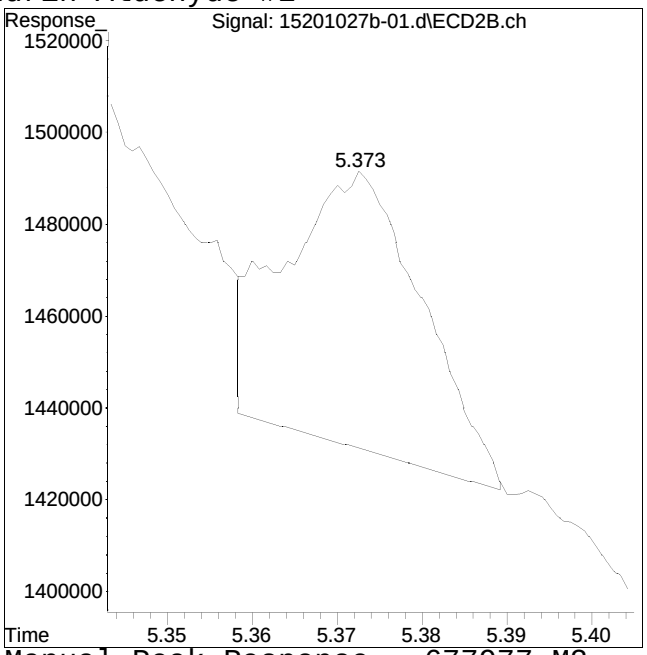
Original Peak Response = 0 Manual Peak Response = 1483799 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest15\201027b\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15201027b-01.d Operator : PEST15:sm
Date Inj'd : 10/27/2020 8:49 am Instrument : Pest 15
Sample : pem15201027b01,42ee,,deg pQuant Date : 10/27/2020 9:13 am

Compound #60: Endrin Aldehyde #2



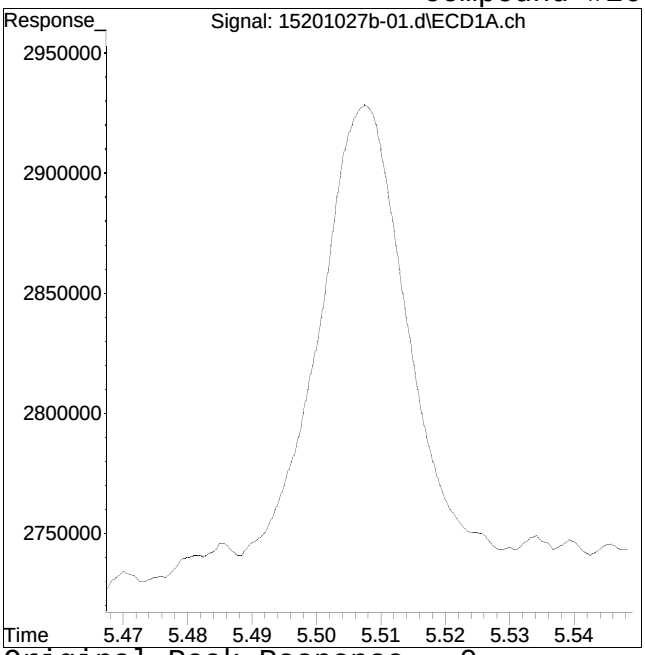


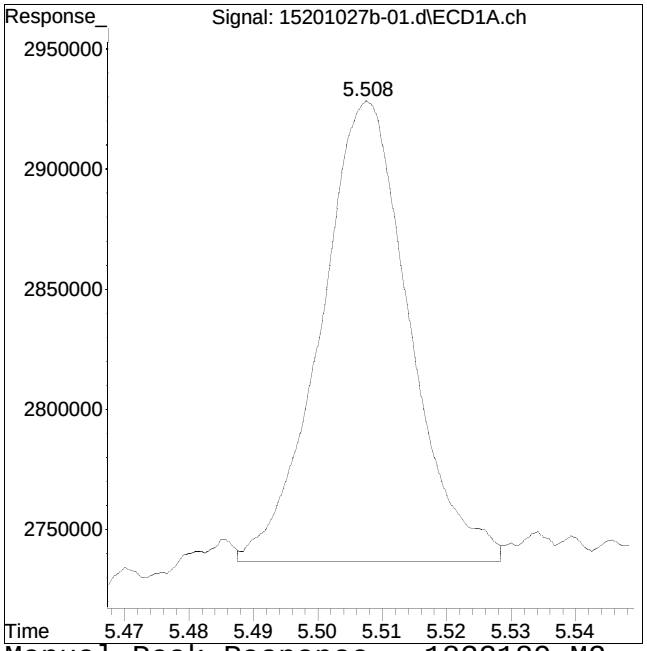
Original Peak Response = 0 Manual Peak Response = 677977 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest15\201027b\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15201027b-01.d Operator : PEST15:sm
Date Inj'd : 10/27/2020 8:49 am Instrument : Pest 15
Sample : pem15201027b01,42ee,,deg pQuant Date : 10/27/2020 9:13 am

Compound #26: Endrin Ketone



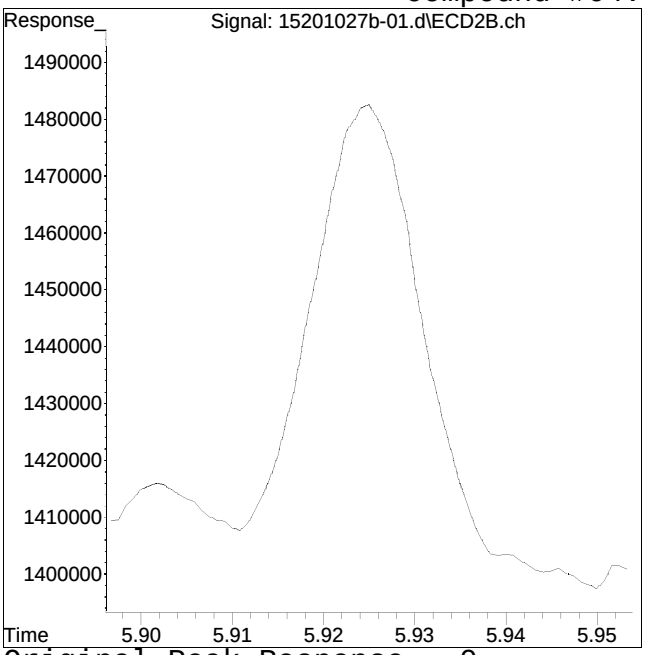


Original Peak Response = 0 Manual Peak Response = 1833189 M2
M2 = Peak not found by automatic integration algorithm.

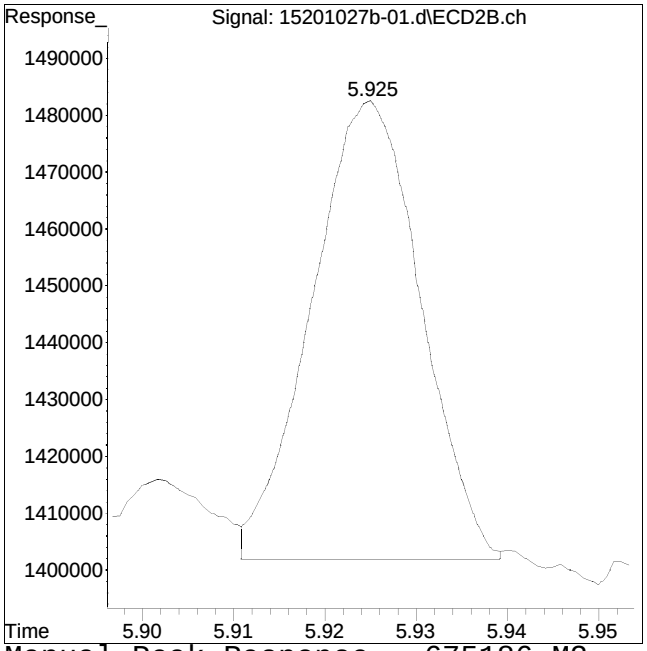
Manual Integration Report

Data Path : I:\Pest15\201027b\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15201027b-01.d Operator : PEST15:sm
Date Inj'd : 10/27/2020 8:49 am Instrument : Pest 15
Sample : pem15201027b01,42ee,,deg pQuant Date : 10/27/2020 9:13 am

Compound #64: Endrin Ketone #2



Original Peak Response = 0



Manual Peak Response = 675186 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\201028a\
Data File : 15201028a-01.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2020 5:44 am
Operator : PEST15:sm
Sample : pem15201028a-01,42,, deg pp 10100 (Sig #1); deg pp 10100 (Sig #2)
Misc : wg1427385,,ical17155
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 06:47:17 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 06:43:37 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.725	1.802	123.5E6	57939060	25.000	25.000
	System Monitoring Compounds						
	Target Compounds						
15)	4,4'-DDE	4.104	4.594	1013449	435075	0.201M2	0.192M2
18)	Endrin	4.503	4.948	305.5E6	140.3E6	60.092	61.422
19)	4,4'-DDD	4.564	5.027	1433126	617390	0.370M2	0.354M2
21)	4,4'-DDT	4.775	5.251	509.2E6	254.7E6	109.078	117.989
22)	Endrin Aldeh	4.966	5.336	590672	799325	0.153M2	0.441M2
D							
26)	Endrin Keton	5.470	5.893	1765152	732322	0.365M2	0.327M2
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

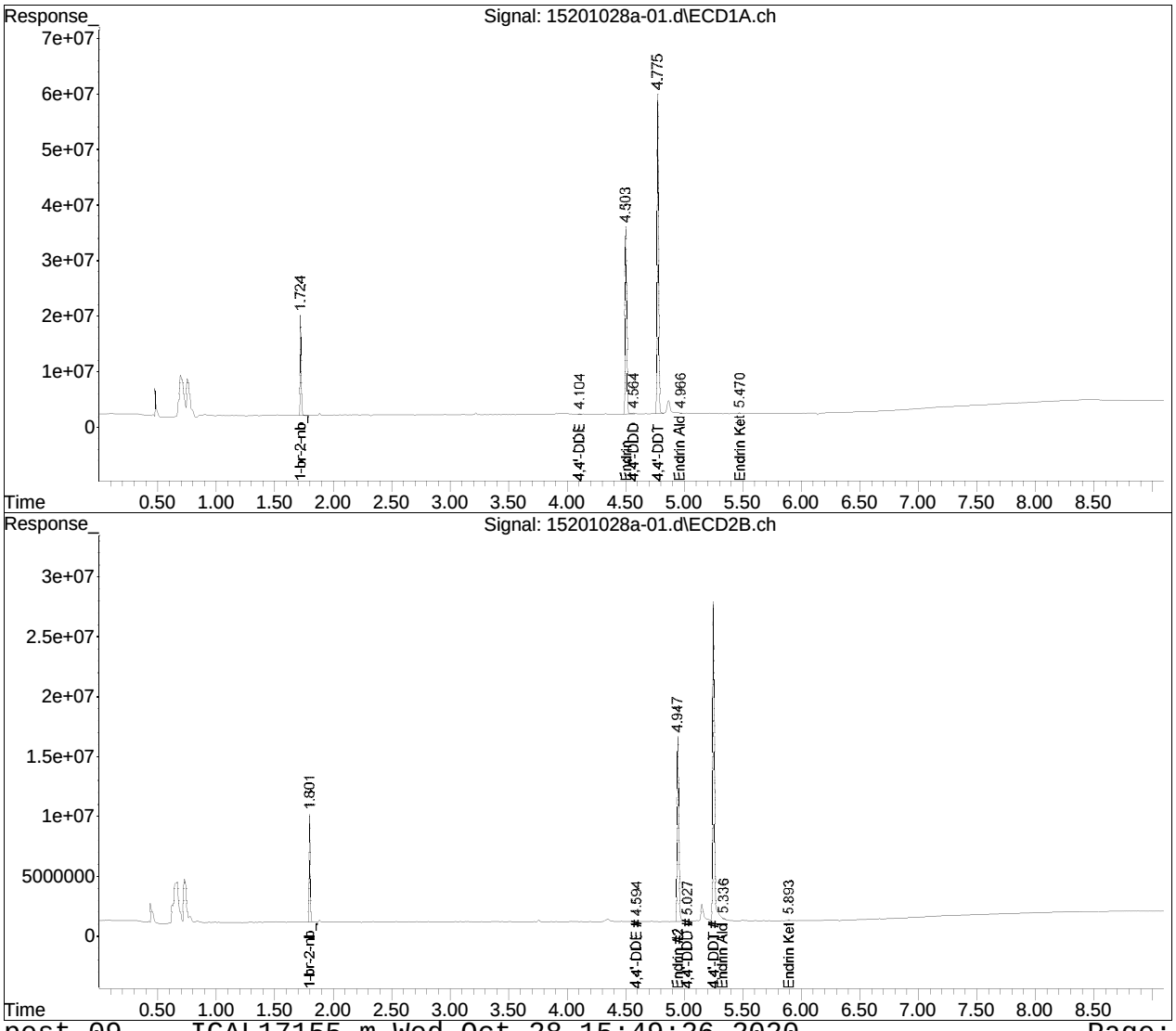
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\Pest15\201028a\
Data File : 15201028a-01.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Oct 2020 5:44 am
Operator : PEST15:sm
Sample : pem15201028a-01,42,, deg pp 10100 (Sig #1); deg pp 10100 (Sig #2)
Misc : wg1427385,,ical17155
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 28 06:47:17 2020
Quant Method : I:\Pest15\201028a\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Wed Oct 28 06:43:37 2020
Response via : Initial Calibration
Integrator: ChemStation

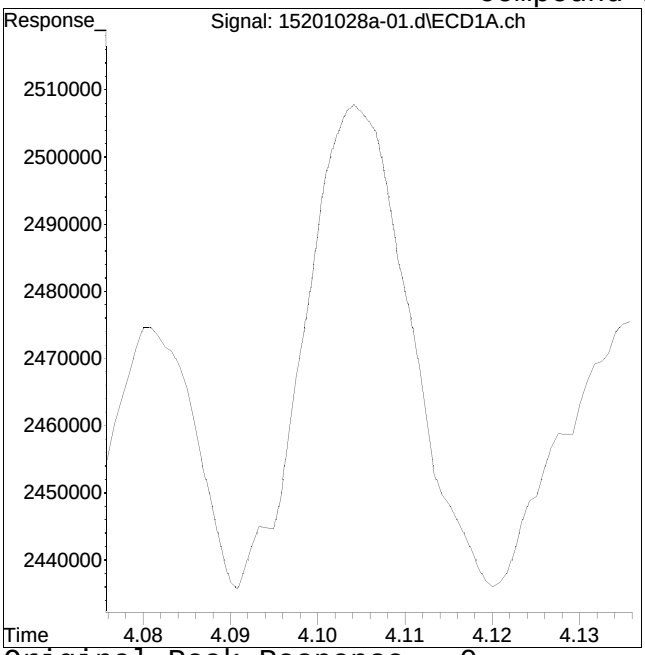
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

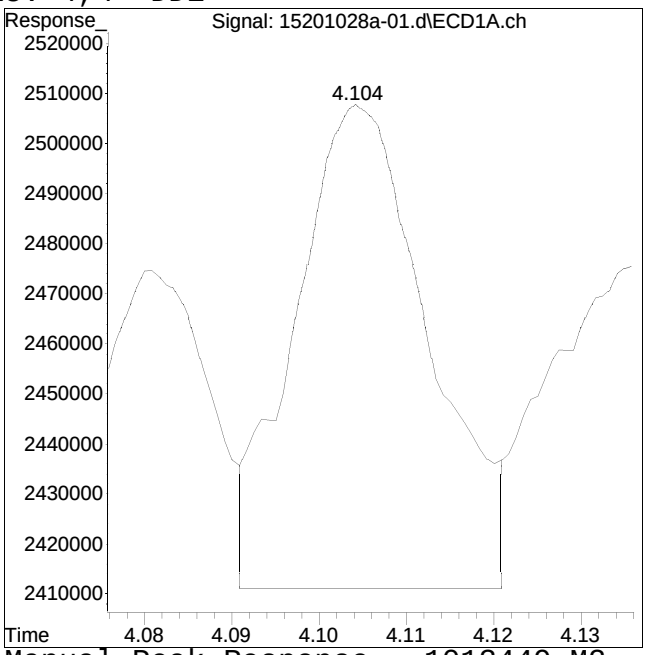


Manual Integration Report

Data Path : I:\Pest15\201028a\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15201028a-01.d Operator : PEST15:sm
Date Inj'd : 10/28/2020 5:44 am Instrument : Pest 15
Sample : pem15201028a-01,42,, deg pQuant Date : 10/28/2020 6:45 am

Compound #15: 4,4'-DDE



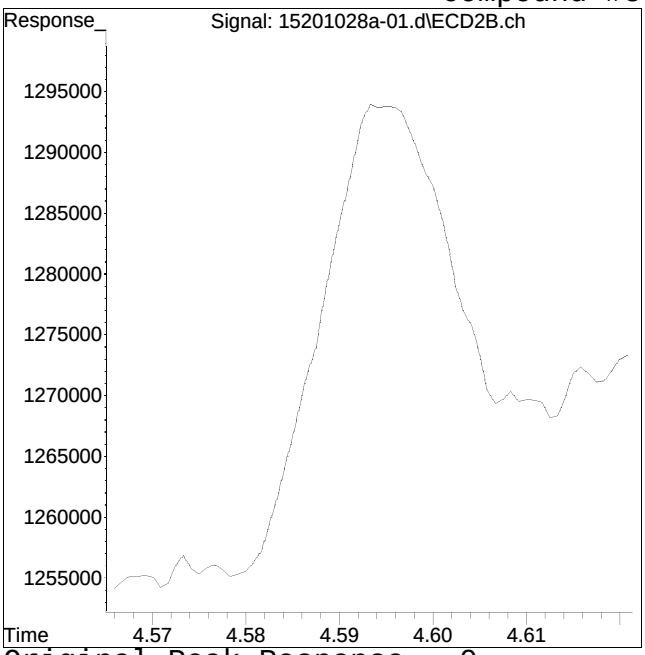


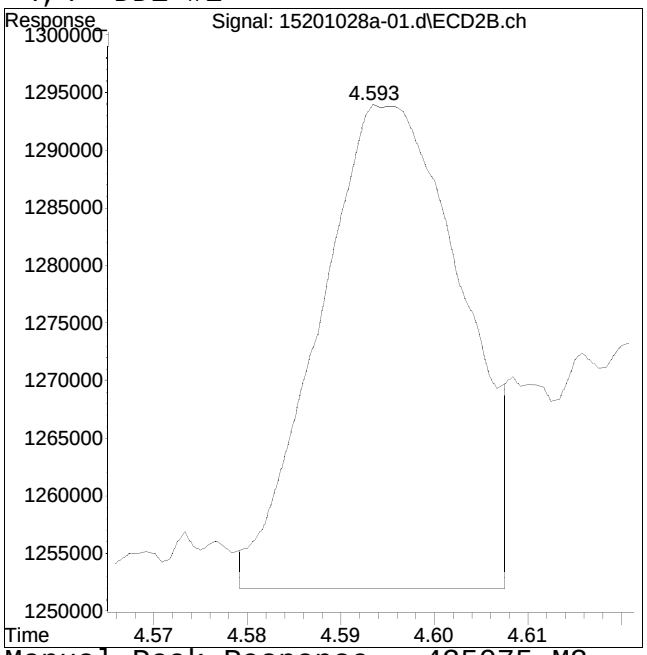
Original Peak Response = 0 Manual Peak Response = 1013449 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest15\201028a\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15201028a-01.d Operator : PEST15:sm
Date Inj'd : 10/28/2020 5:44 am Instrument : Pest 15
Sample : pem15201028a-01,42,, deg pQuant Date : 10/28/2020 6:45 am

Compound #53: 4,4'-DDE #2



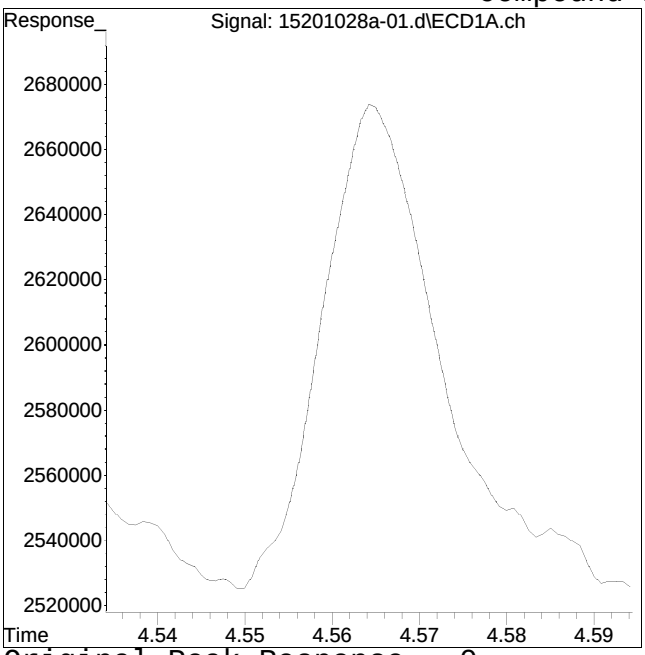


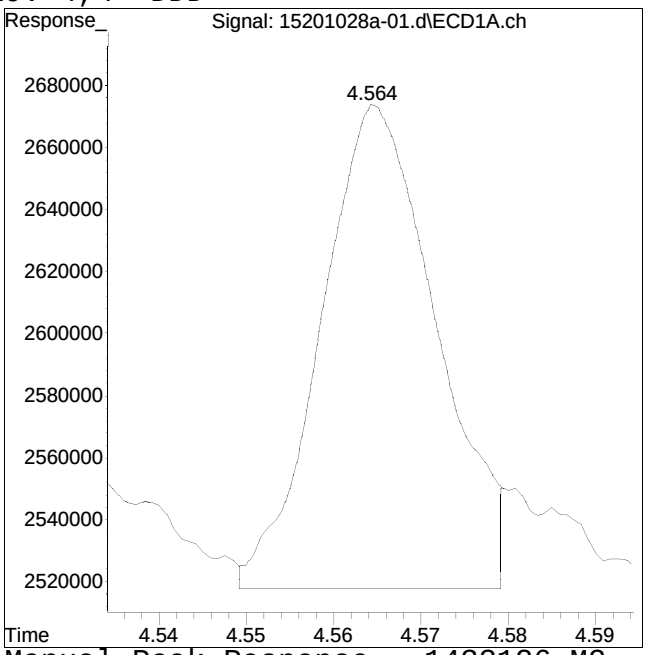
Original Peak Response = 0 Manual Peak Response = 435075 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest15\201028a\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15201028a-01.d Operator : PEST15:sm
Date Inj'd : 10/28/2020 5:44 am Instrument : Pest 15
Sample : pem15201028a-01,42,, deg pQuant Date : 10/28/2020 6:45 am

Compound #19: 4,4'-DDD



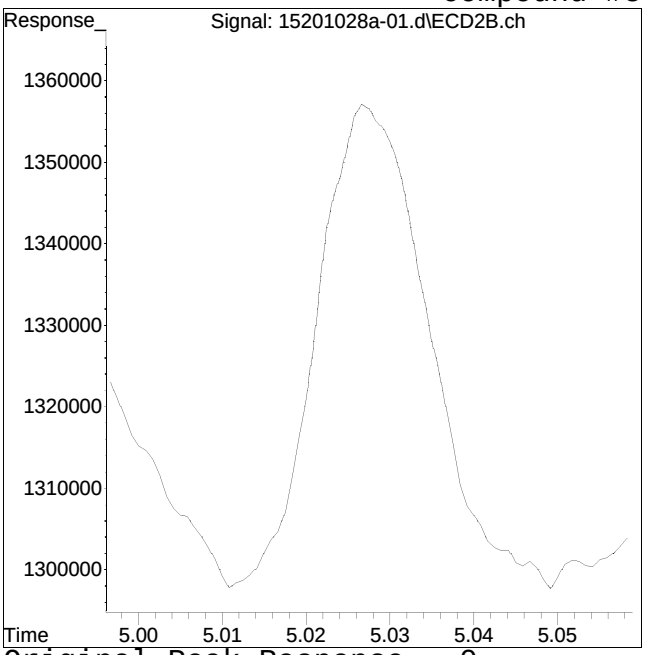


Original Peak Response = 0 Manual Peak Response = 1433126 M2
M2 = Peak not found by automatic integration algorithm.

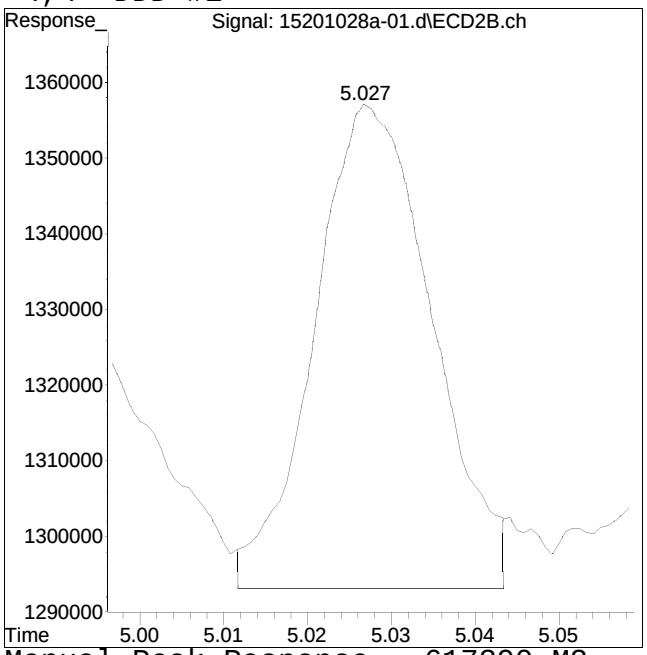
Manual Integration Report

Data Path : I:\Pest15\201028a\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15201028a-01.d Operator : PEST15:sm
Date Inj'd : 10/28/2020 5:44 am Instrument : Pest 15
Sample : pem15201028a-01,42,, deg pQuant Date : 10/28/2020 6:45 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 0



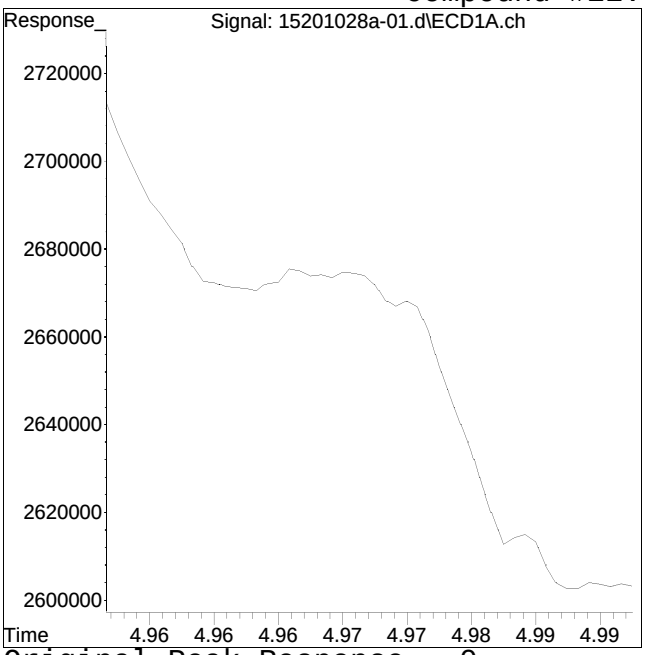
Manual Peak Response = 617390 M2

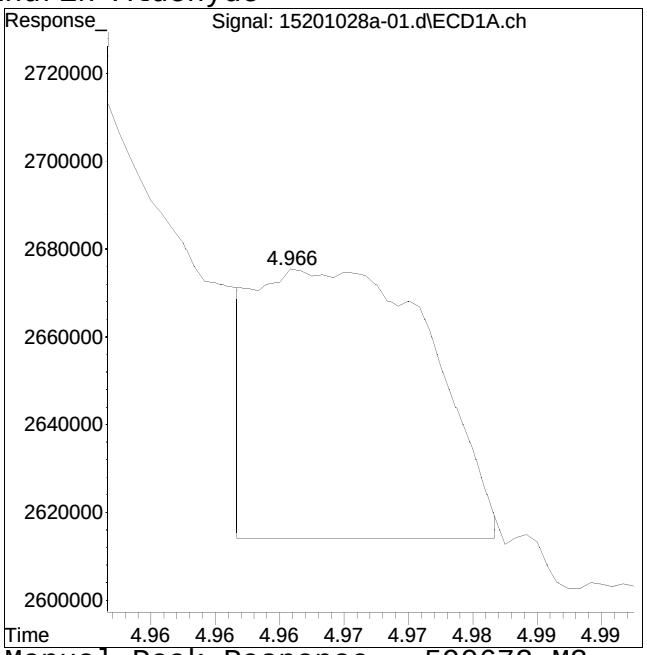
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest15\201028a\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15201028a-01.d Operator : PEST15:sm
Date Inj'd : 10/28/2020 5:44 am Instrument : Pest 15
Sample : pem15201028a-01,42,, deg pQuant Date : 10/28/2020 6:45 am

Compound #22: Endrin Aldehyde



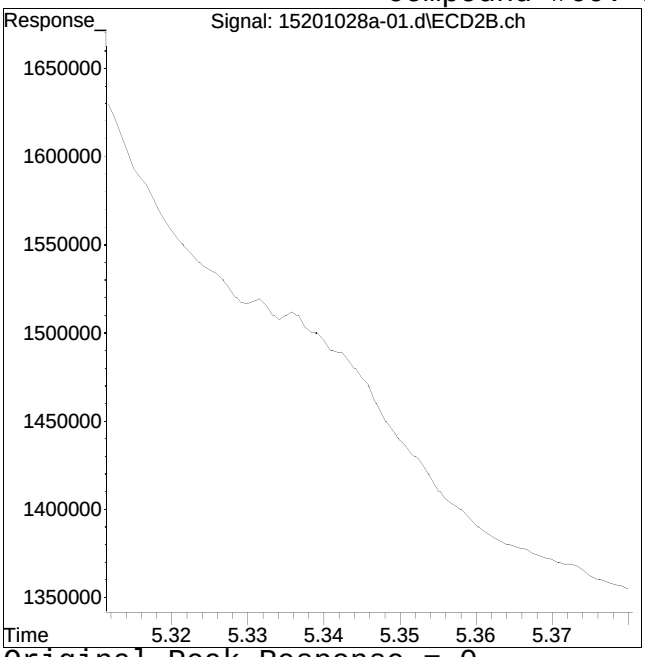


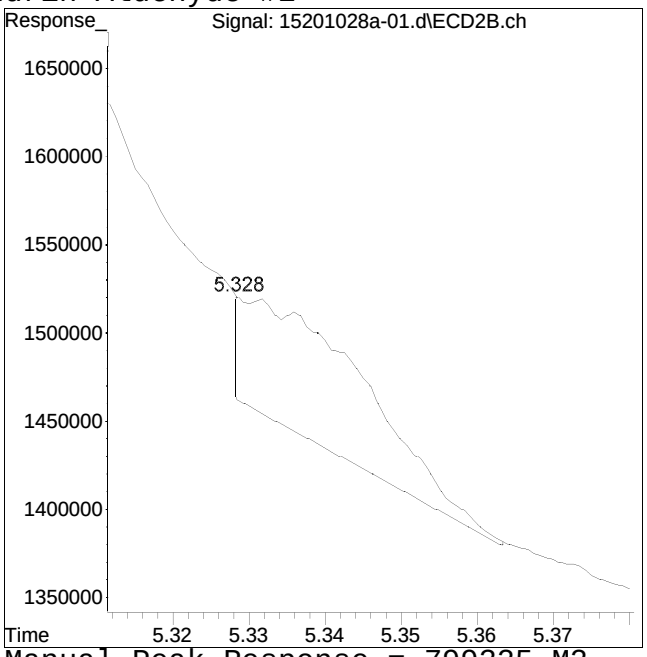
Original Peak Response = 0 Manual Peak Response = 590672 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest15\201028a\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15201028a-01.d Operator : PEST15:sm
Date Inj'd : 10/28/2020 5:44 am Instrument : Pest 15
Sample : pem15201028a-01,42,, deg pQuant Date : 10/28/2020 6:45 am

Compound #60: Endrin Aldehyde #2



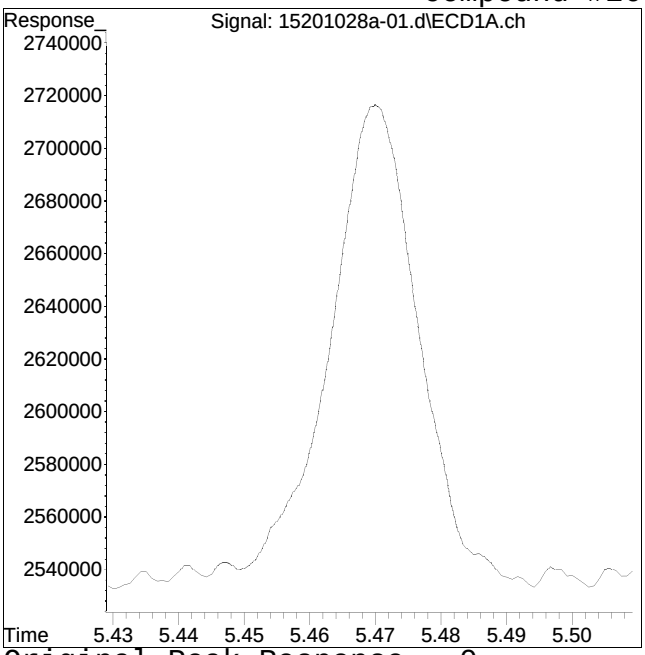


Original Peak Response = 0 Manual Peak Response = 799325 M2
M2 = Peak not found by automatic integration algorithm.

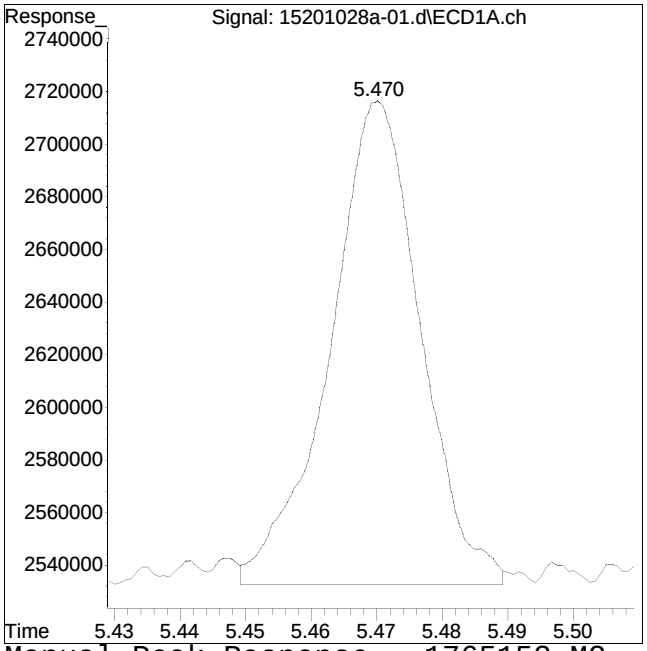
Manual Integration Report

Data Path : I:\Pest15\201028a\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15201028a-01.d Operator : PEST15:sm
Date Inj'd : 10/28/2020 5:44 am Instrument : Pest 15
Sample : pem15201028a-01,42,, deg pQuant Date : 10/28/2020 6:45 am

Compound #26: Endrin Ketone



Original Peak Response = 0



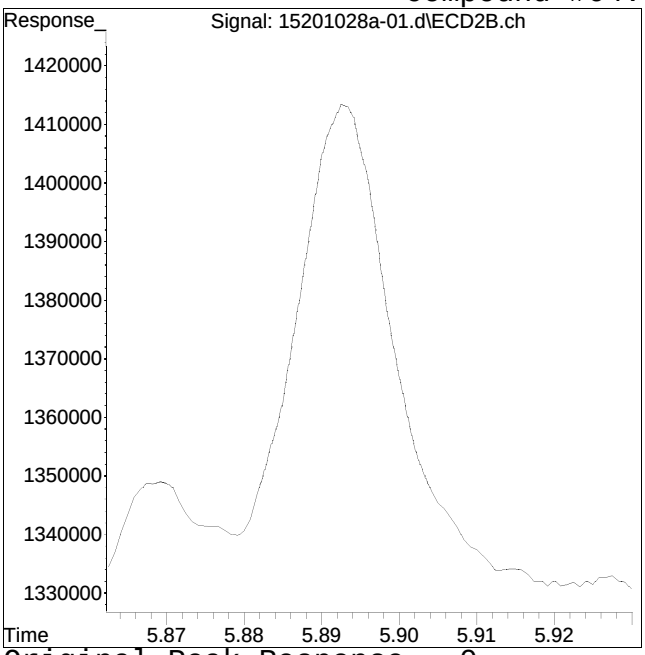
Manual Peak Response = 1765152 M2

M2 = Peak not found by automatic integration algorithm.

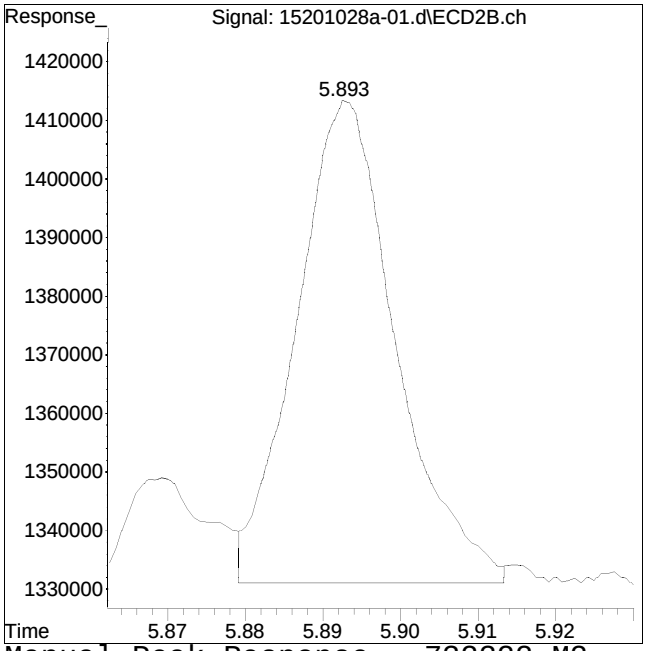
Manual Integration Report

Data Path : I:\Pest15\201028a\ QMethod : P15_pest_09_09_20_ugL_IC
Data File : 15201028a-01.d Operator : PEST15:sm
Date Inj'd : 10/28/2020 5:44 am Instrument : Pest 15
Sample : pem15201028a-01,42,, deg pQuant Date : 10/28/2020 6:45 am

Compound #64: Endrin Ketone #2



Original Peak Response = 0



Manual Peak Response = 732322 M2

M2 = Peak not found by automatic integration algorithm.

RT Shift Summary

Identification Summary
Form 10
Pesticides

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab Sample ID	: L2046790-03		
Client ID	: MW-3		
Date Analyzed (1)	: 10/28/20 14:39	**Date Analyzed (2)**	: 10/28/20 14:39
Instrument ID (1)	: PEST15	**Instrument ID (2)**	: PEST15
GC Column (1)	: CLPPesticides	**GC Column (2)**	: CLPPesticidesII

Analyte	Col	RT	RT Window From	RT Window To	Concentration	RPD
alpha-Chlordane (cis	1	4.03	3.98	4.08	0.166	
	2	4.46	4.41	4.51	0.108	42

Pesticides Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\201027b\
Data File : 15201027b-23.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 2:37 pm
Operator : PEST15:sm
Sample : WG1426947-1,42,,
Misc : wg1426984,WG1426947,ical17155
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 15:44:40 2020
Quant Method : I:\Pest15\201027b\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Tue Oct 27 08:28:24 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest15\201027b\15201027b-02.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.749	1.824	109.7E6	60349324	25.000	25.000
	Standard Area 1 : #1 = 132407959				Recovery =	82.82%	
	Standard Area 1 : #2 = 59263225				Recovery =	101.83%	
28) i	1-br-2-nb_Ch	1.749	1.824	109.7E6	60349324	25.000	25.000
33) i	1-br-2-nb_To	1.749	1.824	109.7E6	60349324	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.219	2.404	184.8E6	95920845	39.940	34.814
	Spiked Amount 50.000	Range 30 - 150			Recovery =	79.88%	69.63%
27) s	Decachlorobi	6.176	6.691	128.4E6	65580771	38.754	35.347
	Spiked Amount 50.000	Range 30 - 150			Recovery =	77.51%	70.69%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D.	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D.	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D.
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D.
17)	Dieldrin	0.000	0.000	0	0	N.D.	N.D.
18)	Endrin	0.000	0.000	0	0	N.D.	N.D.
19)	4,4'-DDD	0.000	0.000	0	0	N.D.	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D.	N.D.
SemiQuant Compounds - Not Calibrated on this Instrument							

Data Path : I:\Pest15\201027b\
Data File : 15201027b-23.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 2:37 pm
Operator : PEST15:sm
Sample : WG1426947-1,42,,
Misc : wg1426984,WG1426947,ical17155
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 15:44:40 2020
Quant Method : I:\Pest15\201027b\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Tue Oct 27 08:28:24 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest15\201027b\15201027b-02.d
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

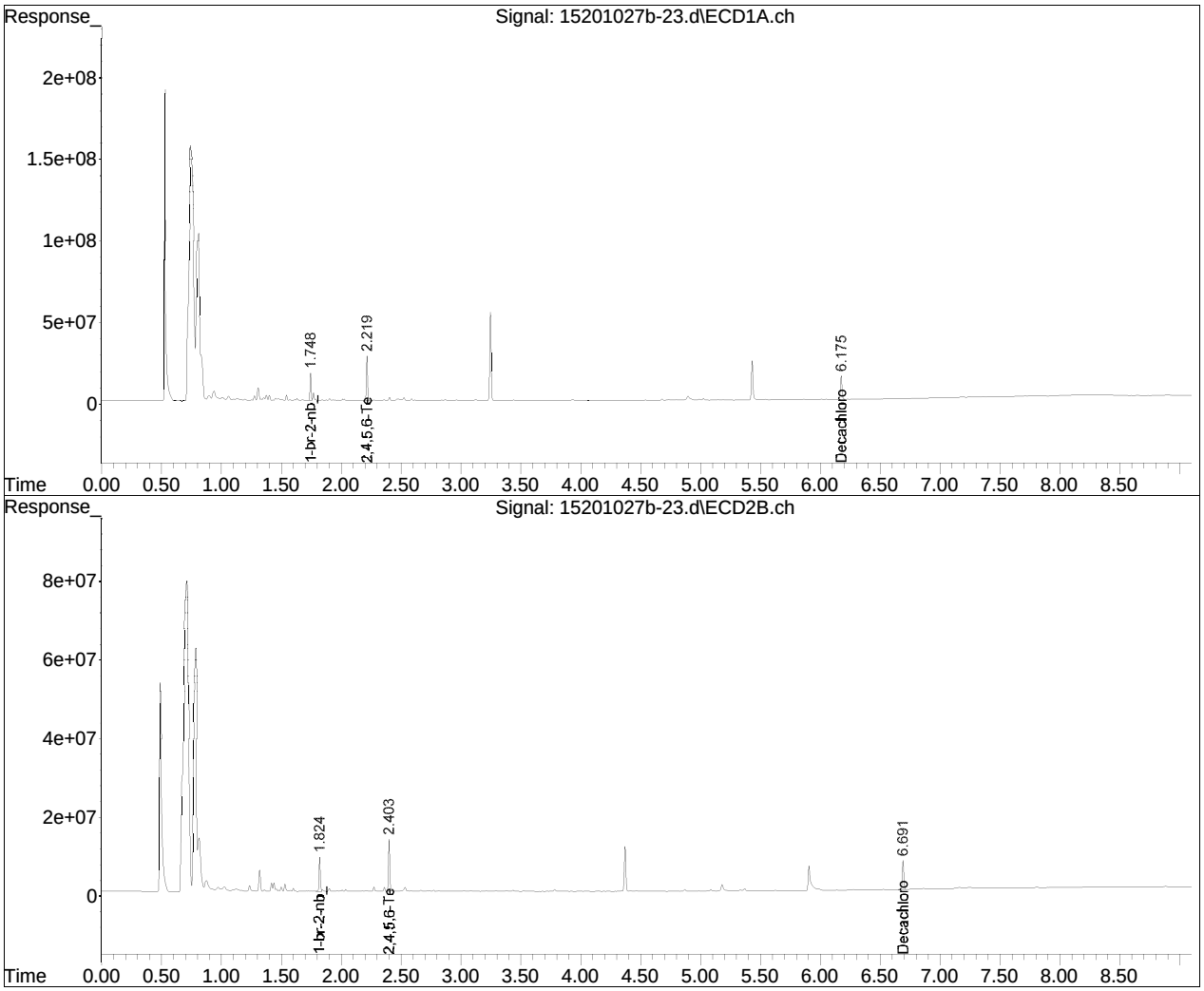
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedb-02.d••d)

Data Path : I:\Pest15\201027b\
Data File : 15201027b-23.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 2:37 pm
Operator : PEST15:sm
Sample : WG1426947-1,42,,
Misc : wg1426984,WG1426947,ical17155
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 15:44:40 2020
Quant Method : I:\Pest15\201027b\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Tue Oct 27 08:28:24 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest15\201027b\	QMethod	: P15_pest_09_09_20_ugL_IC
Data File	: 15201027b-23.d	Operator	: PEST15:sm
Date Inj'd	: 10/27/2020 2:37 pm	Instrument	: Pest 15
Sample	: WG1426947-1,42,,	Quant Date	: 10/27/2020 3:42 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\201027b\
Data File : 15201027b-24.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 2:50 pm
Operator : PEST15:sm
Sample : WG1426947-2,42,,
Misc : wg1426984,WG1426947,ical17155
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 15:55:00 2020
Quant Method : I:\Pest15\201027b\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Tue Oct 27 08:28:24 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest15\201027b\15201027b-02.d
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.748	1.824	111.5E6	59281381	25.000	25.000
	Standard Area 1 : #1 = 132407959				Recovery =	84.22%	
	Standard Area 1 : #2 = 59263225				Recovery =	100.03%	
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.218	2.403	203.9E6	107.1E6	43.348	39.569
	Spiked Amount 50.000	Range 30 - 150		Recovery =	86.70%	79.14%	
27) s	Decachlorobi	6.174	6.691	128.3E6	65988255	38.080	36.207
	Spiked Amount 50.000	Range 30 - 150		Recovery =	76.16%	72.41%	
Target Compounds							
4)	alpha-BHC	2.578	2.839	276.6E6	133.8E6	47.065	40.066
5)	gamma-BHC (l	2.793	3.113	226.1E6	122.1E6	40.635	38.819
6)	beta-BHC	2.854	3.178	118.8E6	59791671	40.927	35.296
7)	delta-BHC	2.982	3.419	220.2E6	108.4E6	40.167	34.649
8)	Heptachlor	3.143	3.471	236.5E6	114.5E6	41.963	35.282
9)	Aldrin	3.372	3.747	203.4E6	107.1E6	42.361	39.592
14)	alpha-Chlord	4.065	4.492	154.5E6	92669275	30.514	35.500
15)	4,4'-DDE	4.133	4.622	191.7E6	90210464	42.185	39.009
16)	Endosulfan I	4.169	4.538	183.0E6	86347816	41.806	37.397
17)	Dieldrin	4.357	4.748	205.1E6	93715413	46.120	40.085
18)	Endrin	4.531	4.975	202.2E6	87988706	44.032	37.661
19)	4,4'-DDD	4.592	5.053	162.5E6	72979585	46.396	40.886
20)	Endosulfan I	4.699	5.130	179.1E6	78900352	41.648	34.925
21)	4,4'-DDT	4.801	5.276	172.1E6	76794147	40.805	34.776
25)	Endosulfan S	5.307	5.556	153.1E6	73280288	40.743	36.945

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\201027b\
Data File : 15201027b-24.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 2:50 pm
Operator : PEST15:sm
Sample : WG1426947-2,42,,
Misc : wg1426984,WG1426947,ical17155
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 15:55:00 2020
Quant Method : I:\Pest15\201027b\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Tue Oct 27 08:28:24 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest15\201027b\15201027b-02.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

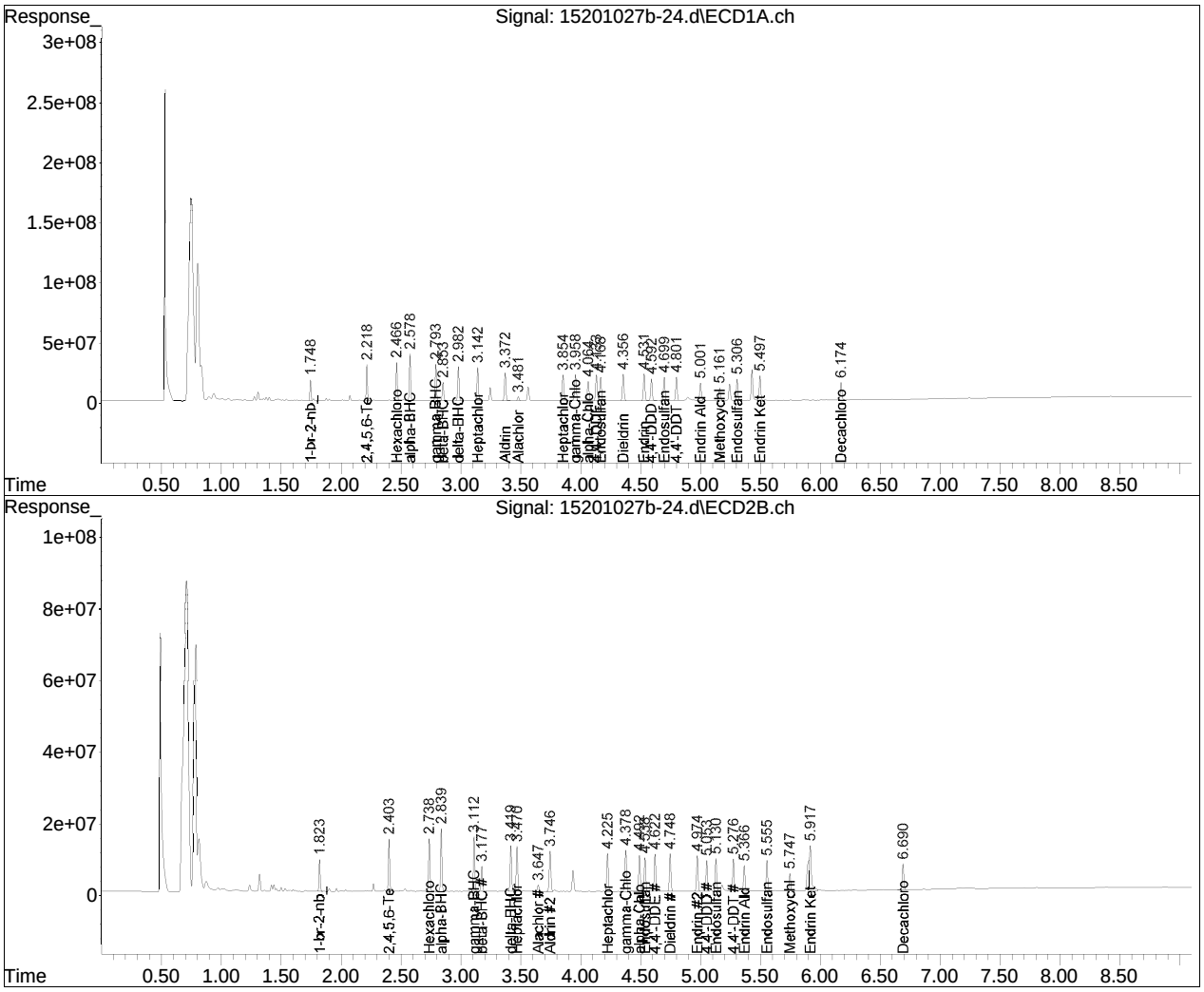
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only027b\15201027b-02.d••d)

Data Path : I:\Pest15\201027b\
Data File : 15201027b-24.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 2:50 pm
Operator : PEST15:sm
Sample : WG1426947-2,42,,
Misc : wg1426984,WG1426947,ical17155
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 15:55:00 2020
Quant Method : I:\Pest15\201027b\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Tue Oct 27 08:28:24 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\201027b\
Data File : 15201027b-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 3:03 pm
Operator : PEST15:sm
Sample : WG1426947-3,42,,
Misc : wg1426984,WG1426947,ical17155
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 15:55:47 2020
Quant Method : I:\Pest15\201027b\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Tue Oct 27 08:28:24 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest15\201027b\15201027b-02.d
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.747	1.823	110.2E6	58899666	25.000	25.000
	Standard Area 1 : #1 = 132407959				Recovery =	83.23%	
	Standard Area 1 : #2 = 59263225				Recovery =	99.39%	
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.218	2.402	188.1E6	97605681	40.459	36.297
	Spiked Amount 50.000	Range 30 - 150		Recovery =	80.92%	72.59%	
27) s	Decachlorobi	6.174	6.691	125.6E6	62885799	37.722	34.729
	Spiked Amount 50.000	Range 30 - 150		Recovery =	75.44%	69.46%	
Target Compounds							
4)	alpha-BHC	2.578	2.839	266.2E6	130.0E6	45.837	39.184
5)	gamma-BHC (l	2.793	3.113	219.9E6	118.1E6	39.996	37.794
6)	beta-BHC	2.853	3.177	113.1E6	57594037	39.408	34.219
7)	delta-BHC	2.982	3.419	216.2E6	105.3E6	39.907	33.881
8)	Heptachlor	3.143	3.470	224.9E6	109.2E6	40.380	33.864
9)	Aldrin	3.371	3.746	201.6E6	101.7E6	42.477	37.806
14)	alpha-Chlord	4.064	4.492	165.0E6	89192423	32.972	34.390
15)	4,4'-DDE	4.133	4.622	190.3E6	87407004	42.361	38.041
16)	Endosulfan I	4.169	4.537	180.0E6	83598822	41.596	36.441
17)	Dieldrin	4.357	4.748	199.2E6	90712706	45.322	39.052
18)	Endrin	4.531	4.974	198.0E6	85241216	43.618	36.722
19)	4,4'-DDD	4.592	5.053	160.1E6	71384690	46.237	40.252
20)	Endosulfan I	4.699	5.129	177.5E6	77205642	41.767	34.396
21)	4,4'-DDT	4.801	5.275	168.1E6	74934982	40.330	34.154
25)	Endosulfan S	5.307	5.556	153.5E6	72979090	41.317	37.032
SemiQuant Compounds - Not Calibrated on this Instrument							

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest15\201027b\
Data File : 15201027b-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 3:03 pm
Operator : PEST15:sm
Sample : WG1426947-3,42,,
Misc : wg1426984,WG1426947,ical17155
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 15:55:47 2020
Quant Method : I:\Pest15\201027b\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Tue Oct 27 08:28:24 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest15\201027b\15201027b-02.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

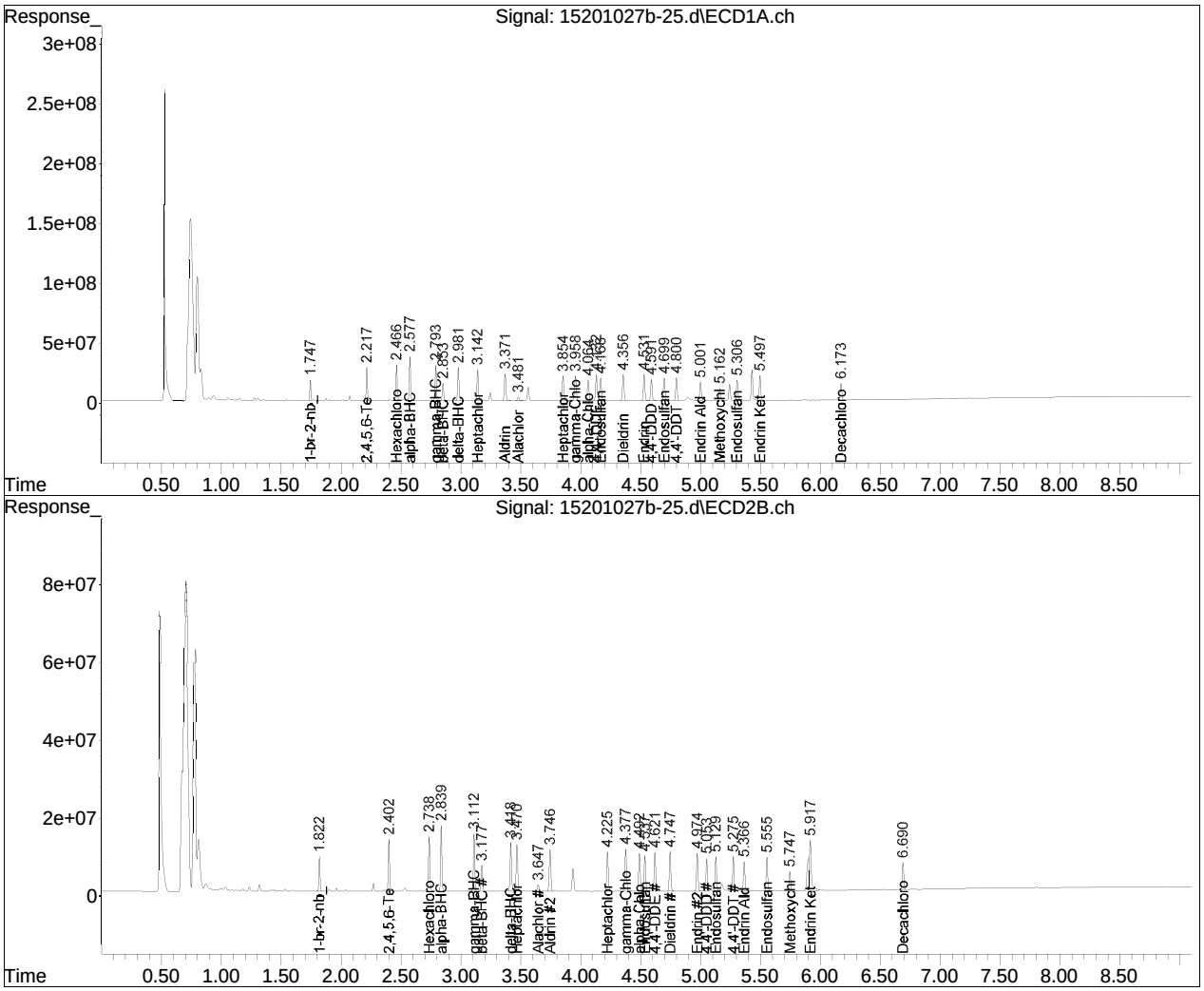
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only027b\15201027b-02.d••d)

Data Path : I:\Pest15\201027b\
Data File : 15201027b-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Oct 2020 3:03 pm
Operator : PEST15:sm
Sample : WG1426947-3,42,,
Misc : wg1426984,WG1426947,ical17155
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: autoint2.e
Quant Time: Oct 27 15:55:47 2020
Quant Method : I:\Pest15\201027b\P15_pest_09_09_20_ugL_ICAL17155.m
Quant Title : pest
QLast Update : Tue Oct 27 08:28:24 2020
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Calculation of PCB Aroclors & Pesticides

Aqueous Concentration Formula:
Amt * DF*(Vt/Vp)*(1000/Vo)*(Ve/1000)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Vo = Volume of Sample (mL)
Ve = Extraction Lab Final Volume (mL)

Soil Concentration Formula:
Amt * DF * (Vt/Vp)*(1000/Wt)*(Ve/1000)* (100/TS)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Wt = Weight of Sample (g)
Ve = Extraction Lab Final Volume (mL)
TS = Total Solids

Dep.: Pest
Inst: Pest_15
Date: **09/09/20**
Run: ical

Method
GC: 8081/608.3

Seq: ical

Vial	Data File	Sample	CCAL	notes	initials
1	15200909i-01	blank			
2	15200909i-02	primer			
3	15200909i-03	blank			
4	15200909i-04	deg std 9973			
5	15200909i-05	il1pest,42e,,10032			
6	15200909i-06	il2pest,42e,,10031			
7	15200909i-07	il3pest,42e,,10030			
8	15200909i-08	il4pest,42e,,10029			
9	15200909i-09	il5pest,42e,,10028			
10	15200909i-10	il6pest,42e,,10027			
11	15200909i-11	il7pest,42e,,10026			
12	15200909i-12	il8pest,42e,,10025			
13	15200909i-13	il9pest,42e,,10024			
14	15200909i-14	il10pest,42e,,10023			
15	15200909i-15	cicvpest,42e,,10015			
16	15200909i-16	blank			
17	15200909i-17	il3chlor,42e,,10036			
18	15200909i-18	il7chlor,42e,,10035			
19	15200909i-19	cicvchlor,42e,,10043			
20	15200909i-20	blank			
21	15200909i-21	il2tox,42e,,10041			
22	15200909i-22	il7tox,42e,,10038			
23	15200909i-23	il8tox,42e,, 10040			
24	15200909i-24	cicvtox,42e,,10042			
25	15200909i-25	Blank			
26	15200909i-26	Deg std 9973			
27	15200909i-27	cicvpest,42e,,10015			
28	15200909i-28	Blank			
29	15200909i-29	il3chlor,42e,,10036			
30	15200909i-30	il7chlor,42e,,10035			
31	15200909i-31	cicvchlor,42e,,10043			
32	15200909i-32	Blank			
33	15200909i-33	cicvtox,42e,,10042			
34	15200909i-34	Blank			
35	15200909i-35	il2chlor,42e,,10036			

Dep.: Pest
Inst: Pest_15
Date: **10/27/20**
Run: **b**

Method
GC: 8081/608.3

Seq:wg1426984 _____

Vial	Data File	Sample	CCAL	notes	initials
1	15201027b-01	deg pp 10100			
2	15201027b-02	pest pp 10168			
3	15201027b-03	chlor pp 10129			
4	15201027b-04	tox pp 10098			
5	15201027b-05	blank			
6	15201027b-06	WG1426706-1,42,,			
7	15201027b-07	WG1426706-2,42,,			
8	15201027b-08	WG1426706-3,42,,			
9	15201027b-09	L2046561-03,42,,			
10	15201027b-10	L2046300-04,42,,			
11	15201027b-11	L2046300-05,42,,			
12	15201027b-12	L2046348-02,42,,			
13	15201027b-13	L2046300-03,42,, p			
14	15201027b-14	WG1426706-4,42,, ms			
15	15201027b-15	WG1426706-5,42,, msd			
16	15201027b-16	L2046310-15,42,,			
17	15201027b-17	L2046310-11,42,,			
18	15201027b-18	L2046310-12,42,,			
19	15201027b-19	L2046310-13,42,,			
20	15201027b-20	L2046310-14,42,,			
21	15201027b-21	blank			
22	15201027b-22	L2046546-01,42,,			
23	15201027b-23	WG1426947-1,42,,			
24	15201027b-24	WG1426947-2,42,,			
25	15201027b-25	WG1426947-3,42,,			
26	15201027b-26	pest pp 10168			

Dep.: Pest
Inst: Pest_15
Date: **10/28/20**
Run: **a**

Method
GC: 8081/608.3

Seq:wg1427385 _____

Vial	Data File	Sample	CCAL	notes	initials
1	15201028a-01	deg pp 10100			
2	15201028a-02	pest pp 10168			
3	15201028a-03	chlor pp 10129			
4	15201028a-04	tox pp 10098			
5	15201028a-05	blank			
6	15201028a-06	L2046475-02,42,,			
7	15201028a-07	L2046473-01,42,,			
8	15201028a-08	L2046512-01,42,,			
9	15201028a-09	L2046512-02,42,,			
10	15201028a-10	L2046512-03,42,,			
11	15201028a-11	L2046512-04,42,,			
12	15201028a-12	WG1427069-1,42,,			
13	15201028a-13	L2046475-21,42,,			
14	15201028a-14	L2046475-22,42,,			
15	15201028a-15	L2046475-23,42,,			
16	15201028a-16	L2046475-24,42,,			
17	15201028a-17	L2046475-25,42,,			
18	15201028a-18	L2046475-26,42,,			
19	15201028a-19	L2046475-27,42,,			
20	15201028a-20	L2046475-28,42,,			
21	15201028a-21	L2046475-29,42,,			
22	15201028a-22	WG1427069-2,42,,			
23	15201028a-23	WG1427069-3,42,,			
24	15201028a-24	pest pp 10168			
25	15201028a-25	blank			
26	15201028a-26	L2046692-01,42,,mcp			
27	15201028a-27	L2046692-02,42,,mcp			
28	15201028a-28	L2046692-03,42,,mcp			
29	15201028a-29	L2046692-04,42,,mcp			
30	15201028a-30	L2046692-05,42,,mcp			
31	15201028a-31	L2046692-06,42,,mcp			
32	15201028a-32	L2046692-07,42,,mcp			
33	15201028a-33	L2046692-08,42,,mcp			
34	15201028a-34	L2046692-09,42,,mcp			
35	15201028a-35	L2046790-01,42,,			
36	15201028a-36	L2046790-02,42,,			

Dep.: Pest
Inst: Pest_15
Date: **10/28/20**
Run: **a**

Method
GC: 8081/608.3

Seq:wg1427385 _____

Vial	Data File	Sample	CCAL	notes	initials
37	15201028a-37	L2046790-03,42,,			
38	15201028a-38	L2046790-04,42,,			

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jan 06 2021, 01:16 pm

Work Group: WG1426947 for Department: 2 Organic Preparation

Created: 27-OCT-20 Due: Operator: WRF

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2046546-01	RIGHT FIELD DITCH 10-26-20	S	NYTCL-8081	WATER	DONE	U	1102	1028	1B	Amber-A.120
L2046625-01	GW-1	S	NYTCL-8081	WATER	DONE	U	1102	1030	1C	Amber-A.120
L2046625-02	GW-2	S	NYTCL-8081	WATER	DONE	U	1102	1030	1C	Amber-A.120
L2046625-03	GW-3	S	NYTCL-8081	WATER	DONE	U	1102	1030	1C	Amber-A.120
L2046754-01	MW-4D	S	NYTCL-8081	WATER	DONE	U	1103	1028	1A	Amber-A.120
L2046754-02	MW-2D	S	NYTCL-8081	WATER	DONE	U	1103	1028	1A	Amber-A.120
L2046754-03	FIELD BLANK	S	NYTCL-8081	WATER	DONE	U	1103	1028	1A	Amber-A.120
L2046790-01	MW-1	S	NYTCL-8081	WATER	DONE	U	1103	1030	1C	Amber-A.120
L2046790-02	MW-2	S	NYTCL-8081	WATER	DONE	U	1103	1030	1C	Amber-A.120
L2046790-03	MW-3	S	NYTCL-8081	WATER	DONE	U	1103	1030	1C	Amber-A.120
L2046790-04	TWP-1	S	NYTCL-8081	WATER	DONE	U	1103	1030	1C	Amber-A.120
WG1426947-1	Laboratory Method Bl	S	NYTCL-8081	WATER	DONE	U				
WG1426947-2	Laboratory Control S	S	NYTCL-8081	WATER	DONE	U				
WG1426947-3	LCS Duplicate	S	NYTCL-8081	WATER	DONE	U				

Comments:

WG1426947-3 WG1426947-2

ORGANIC ELN REPORT

Workgroup: WG1426947

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** DZ849
Surrogate Type: Pesticide/PCB **Lot #:** PP10079: 3/5/21
Spike Type: Pesticide **Lot #:** PP10011: 1/9/21
Spike Verify by: WRF / TBC
Lims Spikelot: PEST_LVI

Additional Reagents/Stds

Na2SO4	0000244889

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Hexane
Lot #: DZ590

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2046546-01 WATER	10/27/20 08:34	William Fleckenstein	140	5-9	.25		10/27/20 12:05	Eric Asamoah	1	C&H#1
L2046625-01 WATER	10/28/20 08:19	Tian-Long Chheou	140	5-9	.25		10/28/20 13:33	Sophia Osei	1	SEVAP C/H,#1
L2046625-02 WATER	10/28/20 08:19	Tian-Long Chheou	140	5-9	.25		10/28/20 13:33	Sophia Osei	1	SEVAP C/H,#1
L2046625-03 WATER	10/28/20 08:19	Tian-Long Chheou	140	5-9	.25		10/28/20 13:33	Sophia Osei	1	SEVAP C/H,#1
L2046754-01 WATER	10/28/20 03:53	Francis Mbro-Menyah	140	5-9	.25		10/28/20 07:32	Sam Boateng	1	N-EVAPS C/H,N-EVAP#
L2046754-02 WATER	10/28/20 03:53	Francis Mbro-Menyah	140	5-9	.25		10/28/20 07:32	Sam Boateng	1	N-EVAPS C/H,N-EVAP#

Reported: 06-JAN-21 01:17 PM

ORGANIC ELN REPORT

Workgroup: WG1426947

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2046754-03 WATER	10/28/20 03:53	Francis Mbro-Menyah	140	5-9	.25		10/28/20 07:32	Sam Boateng	1	N-EVAPS C/H,N-EVAP#
L2046790-01 WATER	10/28/20 07:20	Tian-Long Chheou	140	5-9	.25		10/28/20 11:08	Sophia Osei	1	SEVAP C/H,#1
L2046790-02 WATER	10/28/20 07:20	Tian-Long Chheou	140	5-9	.25		10/28/20 11:08	Sophia Osei	1	SEVAP C/H,#1
L2046790-03 WATER	10/28/20 07:20	Tian-Long Chheou	140	5-9	.25		10/28/20 11:08	Sophia Osei	1	SEVAP C/H,#1
L2046790-04 WATER	10/28/20 07:20	Tian-Long Chheou	140	5-9	.25		10/28/20 11:08	Sophia Osei	1	SEVAP C/H,#1
WG1426947-1 BLANK	10/27/20 08:34	William Fleckenstein	140	5-9	.25		10/27/20 12:05	Eric Asamoah	1	C&H#1
WG1426947-2 LCS	10/27/20 08:34	William Fleckenstein	140	5-9	.25	.25	10/27/20 12:05	Eric Asamoah	1	C&H#1
WG1426947-3 LCSD	10/27/20 08:34	William Fleckenstein	140	5-9	.25	.25	10/27/20 12:05	Eric Asamoah	1	C&H#1

Reported: 06-JAN-21 01:17 PM

Metals

Inorganic Data
(ICPMS Analysis)

Form 1
METALS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-01	**Date Collected**	: 10/27/20 08:15
Client ID	: MW-1	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 11:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: AM
Lab File ID	: WG1427890.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 10/28/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-38-2	Arsenic, Dissolved	0.00034	0.00050	0.00016	J
7440-39-3	Barium, Dissolved	0.04537	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	0.00024	0.00020	0.00005	
7440-47-3	Chromium, Dissolved	0.00066	0.00100	0.00017	J
7440-50-8	Copper, Dissolved	0.01080	0.00100	0.00038	
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-96-5	Manganese, Dissolved	0.9441	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.01170	0.00200	0.00055	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-66-6	Zinc, Dissolved	0.05790	0.01000	0.00341	

Form 1
METALS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-02	**Date Collected**	: 10/27/20 09:30
Client ID	: MW-2	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 11:11
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: AM
Lab File ID	: WG1427890.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 10/28/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-38-2	Arsenic, Dissolved	0.00019	0.00050	0.00016	J
7440-39-3	Barium, Dissolved	0.05162	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-47-3	Chromium, Dissolved	0.00064	0.00100	0.00017	J
7440-50-8	Copper, Dissolved	0.00436	0.00100	0.00038	
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-96-5	Manganese, Dissolved	0.1015	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00208	0.00200	0.00055	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-66-6	Zinc, Dissolved	0.00522	0.01000	0.00341	J

Form 1
METALS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-03	**Date Collected**	: 10/27/20 10:15
Client ID	: MW-3	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 11:17
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: AM
Lab File ID	: WG1427890.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 10/28/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-38-2	Arsenic, Dissolved	0.00049	0.00050	0.00016	J
7440-39-3	Barium, Dissolved	0.02675	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	0.00006	0.00020	0.00005	J
7440-47-3	Chromium, Dissolved	0.00110	0.00100	0.00017	
7440-50-8	Copper, Dissolved	0.00351	0.00100	0.00038	
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-96-5	Manganese, Dissolved	0.2115	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00441	0.00200	0.00055	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-66-6	Zinc, Dissolved	0.03080	0.01000	0.00341	

Form 1
METALS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-04	**Date Collected**	: 10/27/20 08:45
Client ID	: TWP-1	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 11:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: AM
Lab File ID	: WG1427890.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 10/28/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-38-2	Arsenic, Dissolved	0.00017	0.00050	0.00016	J
7440-39-3	Barium, Dissolved	0.02447	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	0.00010	0.00020	0.00005	J
7440-47-3	Chromium, Dissolved	0.00061	0.00100	0.00017	J
7440-50-8	Copper, Dissolved	0.00159	0.00100	0.00038	
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-96-5	Manganese, Dissolved	0.07038	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00307	0.00200	0.00055	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-66-6	Zinc, Dissolved	0.06140	0.01000	0.00341	

Form 1
METALS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: WG1427727-1	**Date Collected**	: NA
Client ID	: WG1427727-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 10/29/20 09:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: AM
Lab File ID	: WG1427890.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 10/28/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-38-2	Arsenic, Dissolved	ND	0.00050	0.00016	U
7440-39-3	Barium, Dissolved	ND	0.00050	0.00017	U
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-47-3	Chromium, Dissolved	0.00060	0.00100	0.00017	J
7440-50-8	Copper, Dissolved	ND	0.00100	0.00038	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-96-5	Manganese, Dissolved	ND	0.00100	0.00044	U
7440-02-0	Nickel, Dissolved	ND	0.00200	0.00055	U
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-66-6	Zinc, Dissolved	0.00521	0.01000	0.00341	J

Form 1
METALS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: WG1427727-4	**Date Collected**	: 10/26/20 11:30
Client ID	: WG1427727-4 DUP	**Date Received**	: 10/27/20
Sample Location	:	**Date Analyzed**	: 10/29/20 10:04
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: AM
Lab File ID	: WG1427890.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 10/28/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-38-2	Arsenic, Dissolved	0.00021	0.00050	0.0002	J
7440-39-3	Barium, Dissolved	0.08473	0.00050	0.0002	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.0001	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.0001	U
7440-47-3	Chromium, Dissolved	0.00065	0.00100	0.0002	J
7440-50-8	Copper, Dissolved	ND	0.00100	0.0004	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.0003	U
7439-96-5	Manganese, Dissolved	6.817	0.00100	0.0004	
7440-02-0	Nickel, Dissolved	0.00822	0.00200	0.0006	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.002	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.0002	U
7440-66-6	Zinc, Dissolved	0.01155	0.01000	0.0034	

Form 1
METALS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-01	**Date Collected**	: 10/27/20 08:15
Client ID	: MW-1	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 14:02
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: AM
Lab File ID	: WG1427890.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 10/28/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-38-2	Arsenic, Total	0.01595	0.00050	0.00016	
7440-39-3	Barium, Total	0.1124	0.00050	0.00017	
7440-41-7	Beryllium, Total	0.00090	0.00050	0.00010	
7440-43-9	Cadmium, Total	0.00069	0.00020	0.00005	
7440-47-3	Chromium, Total	0.1169	0.00100	0.00017	
7440-50-8	Copper, Total	0.06848	0.00100	0.00038	
7439-92-1	Lead, Total	0.01771	0.00100	0.00034	
7439-96-5	Manganese, Total	1.628	0.00100	0.00044	
7440-02-0	Nickel, Total	0.02175	0.00200	0.00055	
7782-49-2	Selenium, Total	0.00763	0.00500	0.00173	
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-66-6	Zinc, Total	0.2929	0.01000	0.00341	

Form 1
METALS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-02	**Date Collected**	: 10/27/20 09:30
Client ID	: MW-2	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 14:07
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: AM
Lab File ID	: WG1427890.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 10/28/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-38-2	Arsenic, Total	0.00136	0.00050	0.00016	
7440-39-3	Barium, Total	0.05446	0.00050	0.00017	
7440-41-7	Beryllium, Total	0.00014	0.00050	0.00010	J
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-47-3	Chromium, Total	0.00246	0.00100	0.00017	
7440-50-8	Copper, Total	0.03262	0.00100	0.00038	
7439-92-1	Lead, Total	0.00124	0.00100	0.00034	
7439-96-5	Manganese, Total	0.08751	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00181	0.00200	0.00055	J
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-66-6	Zinc, Total	0.01434	0.01000	0.00341	

Form 1
METALS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-03	**Date Collected**	: 10/27/20 10:15
Client ID	: MW-3	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 14:12
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: AM
Lab File ID	: WG1427890.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 10/28/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-38-2	Arsenic, Total	0.01322	0.00050	0.00016	
7440-39-3	Barium, Total	0.1388	0.00050	0.00017	
7440-41-7	Beryllium, Total	0.00125	0.00050	0.00010	
7440-43-9	Cadmium, Total	0.00016	0.00020	0.00005	J
7440-47-3	Chromium, Total	0.03525	0.00100	0.00017	
7440-50-8	Copper, Total	0.1140	0.00100	0.00038	
7439-92-1	Lead, Total	0.01081	0.00100	0.00034	
7439-96-5	Manganese, Total	0.8555	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00610	0.00200	0.00055	
7782-49-2	Selenium, Total	0.0126	0.00500	0.00173	
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-66-6	Zinc, Total	0.09685	0.01000	0.00341	

Form 1
METALS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-04	**Date Collected**	: 10/27/20 08:45
Client ID	: TWP-1	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 14:17
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: AM
Lab File ID	: WG1427890.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 10/28/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-38-2	Arsenic, Total	0.02719	0.00050	0.00016	
7440-39-3	Barium, Total	0.3792	0.00050	0.00017	
7440-41-7	Beryllium, Total	0.00201	0.00050	0.00010	
7440-43-9	Cadmium, Total	0.00159	0.00020	0.00005	
7440-47-3	Chromium, Total	0.1405	0.00100	0.00017	
7440-50-8	Copper, Total	0.1151	0.00100	0.00038	
7439-92-1	Lead, Total	0.2125	0.00100	0.00034	
7439-96-5	Manganese, Total	1.657	0.00100	0.00044	
7440-02-0	Nickel, Total	0.02765	0.00200	0.00055	
7782-49-2	Selenium, Total	0.0413	0.00500	0.00173	
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-66-6	Zinc, Total	0.6678	0.01000	0.00341	

Form 1
METALS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: WG1427631-1	**Date Collected**	: NA
Client ID	: WG1427631-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 10/29/20 10:46
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,6020B	**Analyst**	: AM
Lab File ID	: WG1427890.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 10/28/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-38-2	Arsenic, Total	ND	0.00050	0.00016	U
7440-39-3	Barium, Total	ND	0.00050	0.00017	U
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-47-3	Chromium, Total	ND	0.00100	0.00017	U
7440-50-8	Copper, Total	ND	0.00100	0.00038	U
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-96-5	Manganese, Total	ND	0.00100	0.00044	U
7440-02-0	Nickel, Total	ND	0.00200	0.00055	U
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: WG1427631-4	**Date Collected**	: 10/23/20 09:00
Client ID	: WG1427631-4 DUP	**Date Received**	: 10/23/20
Sample Location	:	**Date Analyzed**	: 10/29/20 12:08
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 1,6020B	**Analyst**	: AM
Lab File ID	: WG1427890.pdf	**Instrument ID**	: ICPMSQ2
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 10/28/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-38-2	Arsenic, Total	0.00258	0.00250	0.0008	
7440-43-9	Cadmium, Total	ND	0.00100	0.0003	U
7440-50-8	Copper, Total	0.00660	0.00500	0.0019	
7439-92-1	Lead, Total	ND	0.00500	0.0017	U
7440-02-0	Nickel, Total	ND	0.01000	0.0028	U
7782-49-2	Selenium, Total	ND	0.0250	0.009	U
7440-66-6	Zinc, Total	ND	0.05000	0.0171	U

Form 2A
Initial and Continuing Calibration Verification

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: ICPMSQ2	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1366653-1			R1366653-4			R1366653-6		R1366653-8	
Date Analyzed :	10/29/20 08:07			10/29/20 08:32			10/29/20 09:34		10/29/20 10:35	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Arsenic	50.0	52.0000	104	60.0000	58.7	98	56.7	94	60.4	101
Barium	50.0	51.1000	102	60.0000	58.1	97	59.0	98	61.1	102
Beryllium	50.0	53.0000	106	60.0000	61.4	102	58.2	97	64.4	107
Cadmium	50.0	51.6000	103	60.0000	59.2	99	57.7	96	59.0	98
Chromium	50.0	51.4000	103	60.0000	58.7	98	57.4	96	59.2	99
Copper	50.0	52.5000	105	60.0000	58.8	98	56.2	94	58.9	98
Lead	50.0	51.8000	104	60.0000	58.9	98	58.2	97	60.1	100
Manganese	50.0	50.9000	102	60.0000	59.1	98	57.7	96	60.2	100
Nickel	50.0	54.7000	109	60.0000	58.7	98	57.6	96	58.8	98
Selenium	50.0	52.3000	105	60.0000	58.7	98	59.0	98	61.0	102
Silver	50.0	52.3000	105	60.0000	58.6	98	57.2	95	58.8	98
Zinc	50.0	53.3000	107	60.0000	59.5	99	57.9	96	59.9	100

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: ICPMSQ2	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1366653-11						
Date Analyzed :				10/29/20 11:48						
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Arsenic				60.0000	59.5	99				
Barium				60.0000	60.5	101				
Beryllium				60.0000	60.8	101				
Cadmium				60.0000	58.1	97				
Chromium				60.0000	56.9	95				
Copper				60.0000	56.4	94				
Lead				60.0000	58.6	98				
Manganese				60.0000	59.9	100				
Nickel				60.0000	57.5	96				
Selenium				60.0000	61.6	103				
Silver				60.0000	57.8	96				
Zinc				60.0000	58.3	97				

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: ICPMSQ2	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1366653-1			R1366653-4			R1366653-6		R1366653-8	
Date Analyzed :	10/29/20 08:07			10/29/20 08:32			10/29/20 09:34		10/29/20 10:35	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Arsenic	50.0	52.0000	104	60.0000	58.7	98	56.7	94	60.4	101
Barium	50.0	51.1000	102	60.0000	58.1	97	59.0	98	61.1	102
Beryllium	50.0	53.0000	106	60.0000	61.4	102	58.2	97	64.4	107
Cadmium	50.0	51.6000	103	60.0000	59.2	99	57.7	96	59.0	98
Chromium	50.0	51.4000	103	60.0000	58.7	98	57.4	96	59.2	99
Copper	50.0	52.5000	105	60.0000	58.8	98	56.2	94	58.9	98
Lead	50.0	51.8000	104	60.0000	58.9	98	58.2	97	60.1	100
Manganese	50.0	50.9000	102	60.0000	59.1	98	57.7	96	60.2	100
Nickel	50.0	54.7000	109	60.0000	58.7	98	57.6	96	58.8	98
Selenium	50.0	52.3000	105	60.0000	58.7	98	59.0	98	61.0	102
Silver	50.0	52.3000	105	60.0000	58.6	98	57.2	95	58.8	98
Zinc	50.0	53.3000	107	60.0000	59.5	99	57.9	96	59.9	100

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: ICPMSQ2	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1366653-11			R1366653-13		R1366653-15	
Date Analyzed :				10/29/20 11:48			10/29/20 12:49		10/29/20 13:51	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Arsenic				60.0000	59.5	99	59.2	99	62.6	104
Barium				60.0000	60.5	101	59.4	99	63.3	106
Beryllium				60.0000	60.8	101	60.2	100	55.1	92
Cadmium				60.0000	58.1	97	58.5	98	62.2	104
Chromium				60.0000	56.9	95	56.8	95	58.1	97
Copper				60.0000	56.4	94	57.9	96	60.0	100
Lead				60.0000	58.6	98	58.3	97	62.0	103
Manganese				60.0000	59.9	100	58.5	98	61.6	103
Nickel				60.0000	57.5	96	57.5	96	60.4	101
Selenium				60.0000	61.6	103	60.3	100	63.6	106
Silver				60.0000	57.8	96	57.7	96	61.4	102
Zinc				60.0000	58.3	97	58.5	98	62.3	104

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: ICPMSQ2	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1366653-17						
Date Analyzed :				10/29/20 14:53						
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Arsenic				60.0000	58.6	98				
Barium				60.0000	57.7	96				
Beryllium				60.0000	60.8	101				
Cadmium				60.0000	58.3	97				
Chromium				60.0000	55.4	92				
Copper				60.0000	58.1	97				
Lead				60.0000	57.8	96				
Manganese				60.0000	57.6	96				
Nickel				60.0000	57.1	95				
Selenium				60.0000	60.8	101				
Silver				60.0000	57.5	96				
Zinc				60.0000	59.0	98				

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 3
Blanks

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: ICPMSQ2		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1366653-2		R1366653-5		R1366653-7		R1366653-9		WG1427727-1	
Date Analyzed :	10/29/20 08:12		10/29/20 08:37		10/29/20 09:39		10/29/20 10:40		10/29/20 09:44	
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q	mg/l	Q
Arsenic	0.165	U	0.165	U	0.165	U	0.165	U	0.00016	U
Barium	0.173	U	0.173	U	0.173	U	0.173	U	0.00017	U
Beryllium	0.107	U	0.107	U	0.107	U	0.107	U	0.00010	U
Cadmium	0.0599	U	0.0599	U	0.0599	U	0.0599	U	0.00005	U
Chromium	0.178	U	0.178	U	0.178	U	0.178	U	0.00060	J
Copper	0.384	U	0.384	U	0.384	U	0.384	U	0.00038	U
Lead	0.343	U	0.343	U	0.343	U	0.343	U	0.00034	U
Manganese	0.440	U	0.440	U	0.440	U	0.440	U	0.00044	U
Nickel	0.556	U	0.556	U	0.556	U	0.556	U	0.00055	U
Selenium	1.73	U	1.73	U	1.73	U	1.73	U	0.00173	U
Silver	0.163	U	0.163	U	0.163	U	0.163	U	0.00016	U
Zinc	3.41	U	3.41	U	3.41	U	3.41	U	0.00521	J

Form 3
Blanks

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: ICPMSQ2		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1366653-12							
Date Analyzed :			10/29/20 11:53							
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Arsenic			0.165	U						
Barium			0.173	U						
Beryllium			0.107	U						
Cadmium			0.0599	U						
Chromium			0.178	U						
Copper			0.384	U						
Lead			0.343	U						
Manganese			0.440	U						
Nickel			0.556	U						
Selenium			1.73	U						
Silver			0.163	U						
Zinc			3.41	U						

Form 3
Blanks

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: ICPMSQ2		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1366653-2		R1366653-5		R1366653-7		R1366653-9		WG1427631-1	
Date Analyzed :	10/29/20 08:12		10/29/20 08:37		10/29/20 09:39		10/29/20 10:40		10/29/20 10:46	
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q	mg/l	Q
Arsenic	0.165	U	0.165	U	0.165	U	0.165	U	0.00016	U
Barium	0.173	U	0.173	U	0.173	U	0.173	U	0.00017	U
Beryllium	0.107	U	0.107	U	0.107	U	0.107	U	0.00010	U
Cadmium	0.0599	U	0.0599	U	0.0599	U	0.0599	U	0.00005	U
Chromium	0.178	U	0.178	U	0.178	U	0.178	U	0.00017	U
Copper	0.384	U	0.384	U	0.384	U	0.384	U	0.00038	U
Lead	0.343	U	0.343	U	0.343	U	0.343	U	0.00034	U
Manganese	0.440	U	0.440	U	0.440	U	0.440	U	0.00044	U
Nickel	0.556	U	0.556	U	0.556	U	0.556	U	0.00055	U
Selenium	1.73	U	1.73	U	1.73	U	1.73	U	0.00173	U
Silver	0.163	U	0.163	U	0.163	U	0.163	U	0.00016	U
Zinc	3.41	U	3.41	U	3.41	U	3.41	U	0.00341	U

Form 3
Blanks

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: ICPMSQ2		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1366653-12		R1366653-14		R1366653-16			
Date Analyzed :			10/29/20 11:53		10/29/20 12:54		10/29/20 13:56			
Parameter	**ug/l**	**Q**	**ug/l**	**Q**	**ug/l**	**Q**	**ug/l**	**Q**		**Q**
Arsenic			0.165	U	0.165	U	0.165	U		
Barium			0.173	U	0.173	U	0.173	U		
Beryllium			0.107	U	0.107	U	0.107	U		
Cadmium			0.0599	U	0.0599	U	0.0599	U		
Chromium			0.178	U	0.178	U	0.178	U		
Copper			0.384	U	0.384	U	0.384	U		
Lead			0.343	U	0.343	U	0.343	U		
Manganese			0.440	U	0.440	U	0.440	U		
Nickel			0.556	U	0.556	U	0.556	U		
Selenium			1.73	U	1.73	U	1.73	U		
Silver			0.163	U	0.163	U	0.163	U		
Zinc			3.41	U	3.41	U	3.41	U		

Form 3
Blanks

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: ICPMSQ2		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1366653-18							
Date Analyzed :			10/29/20 14:58							
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Arsenic			0.165	U						
Barium			0.173	U						
Beryllium			0.107	U						
Cadmium			0.0599	U						
Chromium			0.178	U						
Copper			0.384	U						
Lead			0.343	U						
Manganese			0.440	U						
Nickel			0.556	U						
Selenium			1.73	U						
Silver			0.163	U						
Zinc			3.41	U						

Form 4a
Interference Check Sample

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: ICPMSQ2	**Concentration Units**	: ug/l

	True		Initial Found				Final Found			
Lab ID :			R1366653-3							
Analysis Date :			10/29/20 08:22							
Analyte	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Arsenic			0.173							
Barium			0.163							
Beryllium			-0.000360							
Cadmium			0.0774							
Chromium			0.302							
Copper			0.262							
Lead			0.111							
Manganese			0.626							
Nickel			0.583							
Selenium			0.0495							
Silver			0.0165							
Zinc			0.906							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: ICPMSQ2	**Concentration Units**	: ug/l

	True		Initial Found				Final Found			
Lab ID :			R1366653-3							
Analysis Date :			10/29/20 08:22							
Analyte	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Arsenic			0.173							
Barium			0.163							
Beryllium			-0.000360							
Cadmium			0.0774							
Chromium			0.302							
Copper			0.262							
Lead			0.111							
Manganese			0.626							
Nickel			0.583							
Selenium			0.0495							
Silver			0.0165							
Zinc			0.906							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 5a
Matrix Spike

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2046625-01		
Matrix Spike	: WG1427727-3	**MS Analysis Date**	: 10/29/20 09:54
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Arsenic, Dissolved	0.00020J	0.12	0.1278	106						75-125	20
Barium, Dissolved	0.08488	2	2.123	102						75-125	20
Beryllium, Dissolved	ND	0.05	0.05404	108						75-125	20
Cadmium, Dissolved	ND	0.051	0.05412	106						75-125	20
Chromium, Dissolved	0.00064J	0.2	0.1980	99						75-125	20
Copper, Dissolved	ND	0.25	0.2432	97						75-125	20
Lead, Dissolved	ND	0.51	0.5634	110						75-125	20
Manganese, Dissolved	6.889	0.5	6.683	0	Q					75-125	20
Nickel, Dissolved	0.00782	0.5	0.4789	94						75-125	20
Selenium, Dissolved	ND	0.12	0.122	102						75-125	20
Silver, Dissolved	ND	0.05	0.05132	103						75-125	20
Zinc, Dissolved	0.01154	0.5	0.5228	102						75-125	20

Form 5a
Matrix Spike

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2046201-01		
Matrix Spike	: WG1427631-3	**MS Analysis Date**	: 10/29/20 11:58
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Arsenic, Total	0.00221J	0.12	0.1223	102					75-125	20
Barium, Total	0.0401	2	1.976	97					75-125	20
Beryllium, Total	ND	0.05	0.05333	107					75-125	20
Cadmium, Total	ND	0.051	0.05089	100					75-125	20
Chromium, Total	ND	0.2	0.1759	88					75-125	20
Copper, Total	0.00704	0.25	0.2376	92					75-125	20
Lead, Total	ND	0.51	0.5250	103					75-125	20
Manganese, Total	0.1031	0.5	0.5520	90					75-125	20
Nickel, Total	0.00414J	0.5	0.4359	87					75-125	20
Selenium, Total	ND	0.12	0.125	104					75-125	20
Silver, Total	ND	0.05	0.04766	95					75-125	20
Zinc, Total	ND	0.5	0.5705	114					75-125	20

Form 6
Lab Duplicates

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 10/29/20 10:09
Dup Sample ID	: WG1427727-4	**DUP Analysis Date**	: 10/29/20 10:04

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Arsenic, Dissolved	0.00020J	0.00021J	NC	20
Barium, Dissolved	0.08488	0.08473	0	20
Beryllium, Dissolved	ND	ND	NC	20
Cadmium, Dissolved	ND	ND	NC	20
Chromium, Dissolved	0.00064J	0.00065J	NC	20
Copper, Dissolved	ND	ND	NC	20
Lead, Dissolved	ND	ND	NC	20
Manganese, Dissolved	6.889	6.817	1	20
Nickel, Dissolved	0.00782	0.00822	5	20
Selenium, Dissolved	ND	ND	NC	20
Silver, Dissolved	ND	ND	NC	20
Zinc, Dissolved	0.01154	0.01155	0	20

Form 6
Lab Duplicates

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 10/29/20 12:13
Dup Sample ID	: WG1427631-4	**DUP Analysis Date**	: 10/29/20 12:08

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Arsenic, Total	0.00221J	0.00258	NC	20
Cadmium, Total	ND	ND	NC	20
Copper, Total	0.00704	0.00660	6	20
Lead, Total	ND	ND	NC	20
Nickel, Total	0.00414J	ND	NC	20
Selenium, Total	ND	ND	NC	20
Zinc, Total	ND	ND	NC	20

Form 7
Laboratory Control Sample

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1427727-2	**LCS Analysis Date**	: 10/29/20 09:49
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Arsenic, Dissolved	0.120	0.127	106.					80-120	20
Barium, Dissolved	2.00	2.12	106.					80-120	20
Beryllium, Dissolved	0.0500	0.0510	102.					80-120	20
Cadmium, Dissolved	0.0510	0.0561	110.					80-120	20
Chromium, Dissolved	0.200	0.208	104.					80-120	20
Copper, Dissolved	0.250	0.259	103.					80-120	20
Lead, Dissolved	0.510	0.573	112.					80-120	20
Manganese, Dissolved	0.500	0.517	103.					80-120	20
Nickel, Dissolved	0.500	0.496	99.					80-120	20
Selenium, Dissolved	0.120	0.131	109.					80-120	20
Silver, Dissolved	0.0500	0.0528	106.					80-120	20
Zinc, Dissolved	0.500	0.538	108.					80-120	20

Form 7
Laboratory Control Sample

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1427631-2	**LCS Analysis Date**	: 10/29/20 10:51
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Arsenic, Total	0.120	0.124	104.					80-120	20
Barium, Total	2.00	2.07	104.					80-120	20
Beryllium, Total	0.0500	0.0492	98.					80-120	20
Cadmium, Total	0.0510	0.0551	108.					80-120	20
Chromium, Total	0.200	0.194	97.					80-120	20
Copper, Total	0.250	0.248	99.					80-120	20
Lead, Total	0.510	0.559	110.					80-120	20
Manganese, Total	0.500	0.502	100.					80-120	20
Nickel, Total	0.500	0.478	96.					80-120	20
Selenium, Total	0.120	0.126	105.					80-120	20
Silver, Total	0.0500	0.0520	104.					80-120	20
Zinc, Total	0.500	0.529	106.					80-120	20

Form 12
Preparation Log

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2046790-01	10/28/20 23:15	-	50
L2046790-02	10/28/20 23:15	-	50
L2046790-03	10/28/20 23:15	-	50
L2046790-04	10/28/20 23:15	-	50
WG1427727-1	10/28/20 23:15	-	50
WG1427727-2	10/28/20 23:15	-	50
WG1427727-3	10/28/20 23:15	-	50
WG1427727-4	10/28/20 23:15	-	50

Form 12
Preparation Log

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2046790-01	10/28/20 16:14	-	50
L2046790-02	10/28/20 16:14	-	50
L2046790-03	10/28/20 16:14	-	50
L2046790-04	10/28/20 16:14	-	50
WG1427631-1	10/28/20 16:14	-	50
WG1427631-2	10/28/20 16:14	-	50
WG1427631-3	10/28/20 16:14	-	50
WG1427631-4	10/28/20 16:14	-	50

Form 13
Analysis Run Log

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: ICPMSQ2	**Analysis Method**	: 1,6020B
Start Date	: 10/29/20 07:07	**End Date**	: 10/29/20 11:53

Sample Number	Dilution Factor	Analysis Time	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Chromium, Dissolved	Copper, Dissolved	Lead, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Selenium, Dissolved	Silver, Dissolved	Zinc, Dissolved
R1366653-10 TUNE		07:07:00												
R1366653-1 ICV	1	08:07:09	X	X	X	X	X	X	X	X	X	X	X	X
R1366653-2 ICB	1	08:12:16	X	X	X	X	X	X	X	X	X	X	X	X
R1366653-3 ICSA	1	08:22:34	X	X	X	X	X	X	X	X	X	X	X	X
R1366653-4 CCV	1	08:32:48	X	X	X	X	X	X	X	X	X	X	X	X
R1366653-5 CCB	1	08:37:57	X	X	X	X	X	X	X	X	X	X	X	X
R1366653-6 CCV	1	09:34:04	X	X	X	X	X	X	X	X	X	X	X	X
R1366653-7 CCB	1	09:39:13	X	X	X	X	X	X	X	X	X	X	X	X
WG1427727-1 BLANK	1	09:44:22	X	X	X	X	X	X	X	X	X	X	X	X
WG1427727-2 LCS	5	09:49:26	X	X	X	X	X	X	X	X	X	X	X	X
WG1427727-3 MS	10	09:54:31	X	X	X	X	X	X	X	X	X	X	X	X
WG1427727-4 DUP	1	10:04:41	X	X	X	X	X	X	X	X	X	X	X	X
R1366653-8 CCV	1	10:35:18	X	X	X	X	X	X	X	X	X	X	X	X
R1366653-9 CCB	1	10:40:27	X	X	X	X	X	X	X	X	X	X	X	X
L2046790-01	1	11:06:52	X	X	X	X	X	X	X	X	X	X	X	X
L2046790-02	1	11:11:56	X	X	X	X	X	X	X	X	X	X	X	X
L2046790-03	1	11:17:00	X	X	X	X	X	X	X	X	X	X	X	X
L2046790-04	1	11:22:04	X	X	X	X	X	X	X	X	X	X	X	X
R1366653-11 CCV	1	11:48:02	X	X	X	X	X	X	X	X	X	X	X	X
R1366653-12 CCB	1	11:53:11	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: ICPMSQ2	**Analysis Method**	: 1,6020B
Start Date	: 10/29/20 07:07	**End Date**	: 10/29/20 14:58

Sample Number	Dilution Factor	Analysis Time	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Chromium, Total	Copper, Total	Lead, Total	Manganese, Total	Nickel, Total	Selenium, Total	Silver, Total	Zinc, Total
R1366653-10 TUNE		07:07:00												
R1366653-1 ICV	1	08:07:09	X	X	X	X	X	X	X	X	X	X	X	X
R1366653-2 ICB	1	08:12:16	X	X	X	X	X	X	X	X	X	X	X	X
R1366653-3 ICSA	1	08:22:34	X	X	X	X	X	X	X	X	X	X	X	X
R1366653-4 CCV	1	08:32:48	X	X	X	X	X	X	X	X	X	X	X	X
R1366653-5 CCB	1	08:37:57	X	X	X	X	X	X	X	X	X	X	X	X
R1366653-6 CCV	1	09:34:04	X	X	X	X	X	X	X	X	X	X	X	X
R1366653-7 CCB	1	09:39:13	X	X	X	X	X	X	X	X	X	X	X	X
R1366653-8 CCV	1	10:35:18	X	X	X	X	X	X	X	X	X	X	X	X
R1366653-9 CCB	1	10:40:27	X	X	X	X	X	X	X	X	X	X	X	X
WG1427631-1 BLANK	1	10:46:29	X	X	X	X	X	X	X	X	X	X	X	X
WG1427631-2 LCS	5	10:51:34	X	X	X	X	X	X	X	X	X	X	X	X
R1366653-11 CCV	1	11:48:02	X	X	X	X	X	X	X	X	X	X	X	X
R1366653-12 CCB	1	11:53:11	X	X	X	X	X	X	X	X	X	X	X	X
WG1427631-3 MS	20	11:58:20	X	X	X	X	X	X	X	X	X	X	X	X
WG1427631-4 DUP	5	12:08:31	X	X	X	X	X	X	X	X	X	X	X	X
R1366653-13 CCV	1	12:49:13	X	X	X	X	X	X	X	X	X	X	X	X
R1366653-14 CCB	1	12:54:21	X	X	X	X	X	X	X	X	X	X	X	X
R1366653-15 CCV	1	13:51:32	X	X	X	X	X	X	X	X	X	X	X	X
R1366653-16 CCB	1	13:56:41	X	X	X	X	X	X	X	X	X	X	X	X
L2046790-01	1	14:02:22	X	X	X	X	X	X	X	X	X	X	X	X
L2046790-02	1	14:07:27	X	X	X	X	X	X	X	X	X	X	X	X
L2046790-03	1	14:12:32	X	X	X	X	X	X	X	X	X	X	X	X
L2046790-04	1	14:17:37	X	X	X	X	X	X	X	X	X	X	X	X
R1366653-17 CCV	1	14:53:14	X	X	X	X	X	X	X	X	X	X	X	X
R1366653-18 CCB	1	14:58:23	X	X	X	X	X	X	X	X	X	X	X	X

Form 14
ICP-MS Tune

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab Sample ID	: R1366653-10	**Analysis Date**	: 10/29/20 07:07
ICP-MS Instrument	: iCAP Q		

Mass Element	Avg Measured Mass (amu)	Avg. Peak Width at 10% Peak Height (amu)	%RSD
59 Co	58.9124	0.692	1.1
115 In	114.8669	0.727	0.8
7 Li	6.979	0.701	1.2
238 U	238.0293	0.726	1.5

Form 14
ICP-MS Tune

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab Sample ID	: R1366653-10	**Analysis Date**	: 10/29/20 07:07
ICP-MS Instrument	: iCAP Q		

Mass Element	Avg Measured Mass (amu)	Avg. Peak Width at 10% Peak Height (amu)	%RSD
59 Co	58.9124	0.692	1.1
115 In	114.8669	0.727	0.8
7 Li	6.979	0.701	1.2
238 U	238.0293	0.726	1.5

Form 15
ICP-MS Internal Standards Relative Intensity Summary

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: ICPMSQ2	**Analysis Method**	: 1,6020B
Start Date	: 10/29/20	**End Date**	: 10/29/20

Sample #	Time	Internal Standards %RI For:				
		Lithium	Scandium	Ge	In	Bismuth
R1366653-1 ICV	08:07:09	107	113	111	114	110
R1366653-2 ICB	08:12:16	105	109	101	104	103
R1366653-3 ICSA	08:22:34	113	127	112	113	104
R1366653-4 CCV	08:32:48	111	122	115	117	114
R1366653-5 CCB	08:37:57	100	99	105	109	107
R1366653-6 CCV	09:34:04	104	114	112	116	110
R1366653-7 CCB	09:39:13	96	99	104	106	102
WG1427727-1 BLANK	09:44:22	94	98	106	111	106
WG1427727-2 LCS	09:49:26	103	110	114	116	110
WG1427727-3 MS	09:54:31	101	111	116	118	111
WG1427727-4 DUP	10:04:41	108	131	115	118	94
R1366653-8 CCV	10:35:18	114	124	121	126	116
R1366653-9 CCB	10:40:27	111	114	112	116	110
L2046790-01	11:06:52	186	193	169	163	127
L2046790-02	11:11:56	178	188	170	157	122
L2046790-03	11:17:00	156	162	153	150	127
L2046790-04	11:22:04	153	160	151	149	126
R1366653-11 CCV	11:48:02	124	136	131	135	125
R1366653-12 CCB	11:53:11	120	121	122	125	119

Form 15
ICP-MS Internal Standards Relative Intensity Summary

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: ICPMSQ2	**Analysis Method**	: 1,6020B
Start Date	: 10/29/20	**End Date**	: 10/29/20

Sample #	Time	Internal Standards %RI For:				
		Lithium	Scandium	Ge	In	Bismuth
R1366653-1 ICV	08:07:09	107	113	111	114	110
R1366653-2 ICB	08:12:16	105	109	101	104	103
R1366653-3 ICSA	08:22:34	113	127	112	113	104
R1366653-4 CCV	08:32:48	111	122	115	117	114
R1366653-5 CCB	08:37:57	100	99	105	109	107
R1366653-6 CCV	09:34:04	104	114	112	116	110
R1366653-7 CCB	09:39:13	96	99	104	106	102
R1366653-8 CCV	10:35:18	114	124	121	126	116
R1366653-9 CCB	10:40:27	111	114	112	116	110
WG1427631-1 BLANK	10:46:29	111	111	115	119	112
WG1427631-2 LCS	10:51:34	117	125	124	126	117
R1366653-11 CCV	11:48:02	124	136	131	135	125
R1366653-12 CCB	11:53:11	120	121	122	125	119
WG1427631-3 MS	11:58:20	126	128	138	138	121
WG1427631-4 DUP	12:08:31	163	171	152	143	113
R1366653-13 CCV	12:49:13	136	150	136	140	128
R1366653-14 CCB	12:54:21	122	123	128	130	122
R1366653-15 CCV	13:51:32	138	156	132	134	124
R1366653-16 CCB	13:56:41	121	121	125	130	122
L2046790-01	14:02:22	133	156	136	136	116
L2046790-02	14:07:27	151	159	151	146	120
L2046790-03	14:12:32	144	164	152	147	125
L2046790-04	14:17:37	138	158	151	142	123
R1366653-17 CCV	14:53:14	125	140	129	135	128
R1366653-18 CCB	14:58:23	120	122	118	120	115

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METALS by 200.8, 6020A (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum, Total	7429-90-5	0.01	0.00327	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Antimony, Total	7440-36-0	0.002	0.000429	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Arsenic, Total	7440-38-2	0.0005	0.000165	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Barium, Total	7440-39-3	0.0005	0.000173	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Beryllium, Total	7440-41-7	0.0005	0.000107	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cadmium, Total	7440-43-9	0.0002	0.0000599	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Calcium, Total	7440-70-2	0.1	0.0394	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Chromium, Total	7440-47-3	0.001	0.000178	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cobalt, Total	7440-48-4	0.0005	0.000163	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Copper, Total	7440-50-8	0.001	0.000384	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Iron, Total	7439-89-6	0.05	0.0191	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Lead, Total	7439-92-1	0.001	0.000343	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Magnesium, Total	7439-95-4	0.07	0.0242	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Manganese, Total	7439-96-5	0.001	0.00044	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Nickel, Total	7440-02-0	0.002	0.000556	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Potassium, Total	7440-09-7	0.1	0.0309	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Selenium, Total	7782-49-2	0.005	0.00173	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Silver, Total	7440-22-4	0.00025	0.000163	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Sodium, Total	7440-23-5	0.1	0.0293	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Thallium, Total	7440-28-0	0.0005	0.000143	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Vanadium, Total	7440-62-2	0.005	0.00157	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Zinc, Total	7440-66-6	0.01	0.00341	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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File: PM2963-1
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METALS by 6020A (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum, Total	7429-90-5	10	1.48	mg/kg	48-151	20	75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Antimony, Total	7440-36-0	0.05	0.01352	mg/kg	1-208	20	75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Arsenic, Total	7440-38-2	0.05	0.0066	mg/kg	79-121	20	75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Barium, Total	7440-39-3	0.3	0.02112	mg/kg	83-117	20	75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Beryllium, Total	7440-41-7	0.03	0.00872	mg/kg	83-117	20	75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Cadmium, Total	7440-43-9	0.02	0.00264	mg/kg	83-117	20	75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Calcium, Total	7440-70-2	50	6.08	mg/kg	81-119	20	75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Chromium, Total	7440-47-3	0.2	0.0468	mg/kg	80-120	20	75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Cobalt, Total	7440-48-4	0.05	0.00532	mg/kg	84-115	20	75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Copper, Total	7440-50-8	0.2	0.0194	mg/kg	81-118	20	75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Iron, Total	7439-89-6	20	2.06	mg/kg	45-155	20	75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Lead, Total	7439-92-1	0.06	0.0146	mg/kg	81-117	20	75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Magnesium, Total	7439-95-4	10	1.232	mg/kg	76-124	20	75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Manganese, Total	7439-96-5	0.2	0.0444	mg/kg	81-117	20	75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Nickel, Total	7440-02-0	0.1	0.02672	mg/kg	83-117	20	75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Potassium, Total	7440-09-7	10	1.588	mg/kg	71-129	20	75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Selenium, Total	7782-49-2	0.2	0.0756	mg/kg	78-122	20	75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Silver, Total	7440-22-4	0.05	0.00488	mg/kg	75-124	20	75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Sodium, Total	7440-23-5	15	1.172	mg/kg	72-127	20	75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Thallium, Total	7440-28-0	0.02	0.00516	mg/kg	80-120	20	75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Vanadium, Total	7440-62-2	0.1	0.03792	mg/kg	78-122	20	75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Zinc, Total	7440-66-6	1	0.26	mg/kg	82-118	20	75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Performance Report

System

Start time:	10/29/2020 7:07:14 AM
Instrument:	iCAP Q
Operator:	ALPHALAB\Metals-Instrument
Template:	STD AGD
Instrument Serial Number:	Q01717
Last Autotune:	Autotune-SourceTune Alpha No Neb-20201020-074318216.imatdat
Solution:	1 ppb Tune B in 2% HNO3 and 0.5% HCl.

Sensitivity & Stability Test

Result	Runs	Sweeps
Passed	5	10

Sensitivity

Analyte	Result	Value	Condition	Limit
7Li	Passed	10,621.0 CPS	Greater than	10,000.0 CPS
59Co	Passed	30,162.0 CPS	Greater than	1,000.0 CPS
238U	Passed	65,597.0 CPS	Greater than	20,000.0 CPS
140Ce.16O/140Ce	Passed	0.0219	Less than	0.025
137Ba++/137Ba	Passed	0.0309	Less than	0.034
115In	Passed	40,857.0 CPS	Greater than	5,000.0 CPS

Stability

Analyte	Value	Limit
7Li	1.2%	5
59Co	1.1%	5
238U	1.5%	5
140Ce.16O	4.2%	2
140Ce	1.6%	2
115In	0.8%	5

Mass Calibration Test

Result	Channels	Dwell	MeasureWidth	PointSpacing	Sweeps
Passed	75	0.04	1.5	0.02	10

Analyte	Result	Centroid Mass [u]	Offset	Peak width [u]	Peak width min [u]	Peak width max [u]
7Li	Passed	6.9790	0.0370	0.701	0.600	0.900
59Co	Passed	58.9124	0.0208	0.692	0.600	0.900
115In	Passed	114.8669	0.0370	0.727	0.600	0.900
238U	Passed	238.0293	0.0215	0.726	0.600	0.900

Tune Settings

Parameter	Value
Additional Gas Flow 1	44.98
Additional Gas Flow 2	0.00
Additional Gas Flow 3	0.00
Angular Deflection	-374.00
Auxilliary Flow	0.80
CCT Bias	-2.00
CCT Entry Lens	-96.00
CCT Exit Lens	-160.00
CCT Focus Lens	-8.16
CCT1 Flow	0.00
CCT1 Shut-Off Valve	0.00
CCT2 Flow	0.00
CCT2 Shut-Off Valve	0.00
Cool Flow	14.00
D1 Lens	-204.80
D2 Lens	-80.00
Deflection Entry Lens	-35.00
Dry Pump Speed	0.00
Extraction Lens 1 Negative	0.00
Extraction Lens 1 Polarity	0.00
Extraction Lens 1 Positive	0.00
Extraction Lens 2	-72.22
Focus Lens	19.70
Nebulizer Flow	0.54
Peristaltic Pump Speed	20.00
Plasma Power	1550.00
Pole Bias	-1.00
Quad Entry Lens	-26.60
Sampling Depth	5.00
Spray Chamber Temperature	2.70
Torch Horizontal Position	0.30
Torch Vertical Position	-0.79
Virtual CCT Mass Maximum Dac Limit Set	4095.00
Virtual CCT Mass parameter b	0.65
Virtual CCT Mass to Dac Factor	130.00
Virtual CCT Mass to Dac Offset	-120.00

Vacuum Check

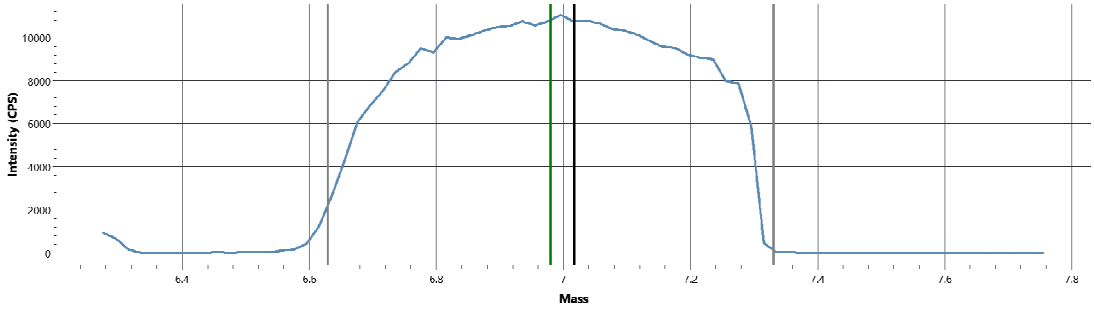
Parameter	Result	Value
Analyzer Pressure	Vacuum ok	3.603e-7
Interface Pressure		1.769e+0

Detector Voltages

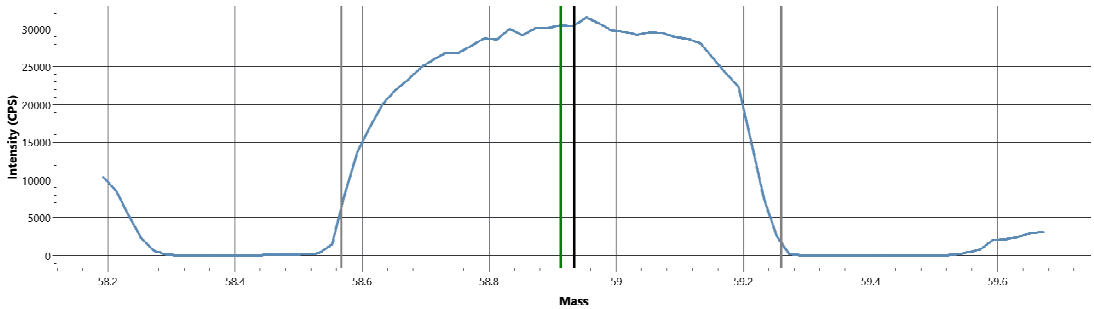
Analog	Counting
-1812.50	1287.50

Mass Calibration Peaks

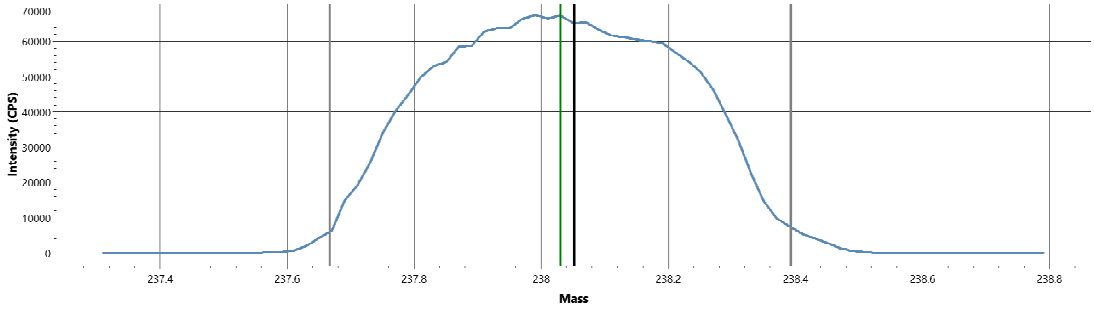
Analyte: 7Li



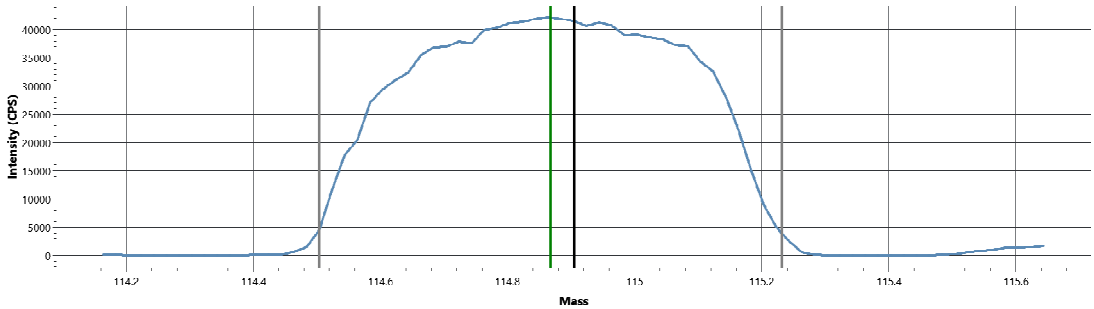
Analyte: 59Co



Analyte: 238U

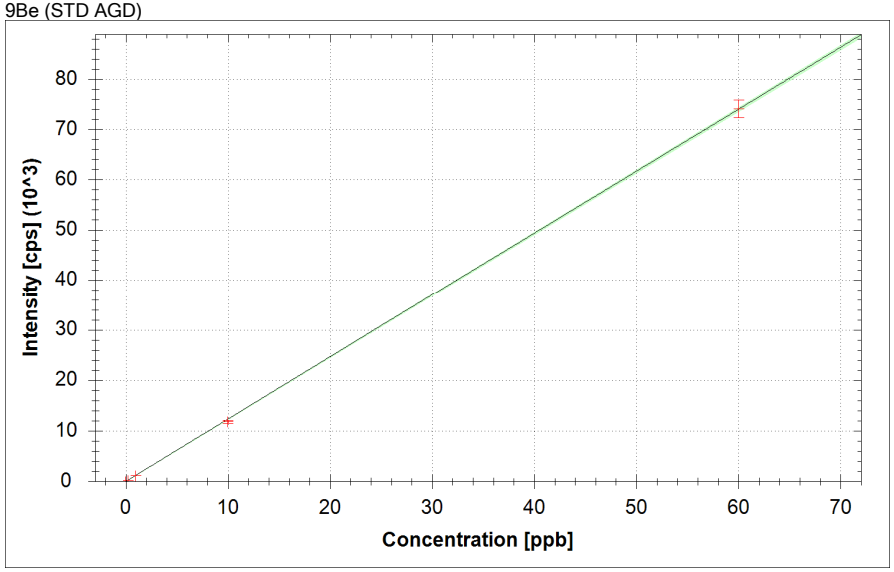


Analyte: 115In



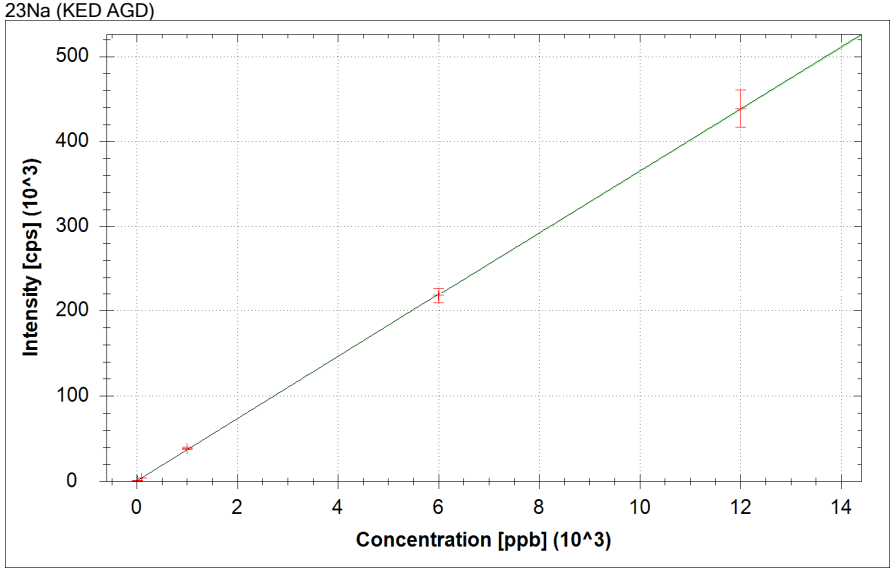
Calibration Curves:

9Be (STD AGD)



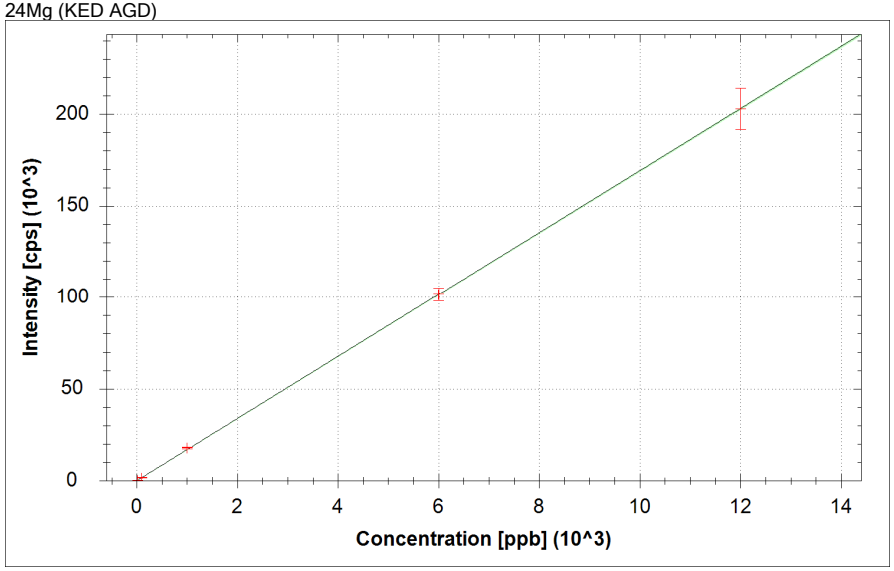
f(x) = 1233.3038*x + 12.4445
R² = 0.9999
BEC = 0.010 ppb
LoD = 0.0019 ppb

23Na (KED AGD)



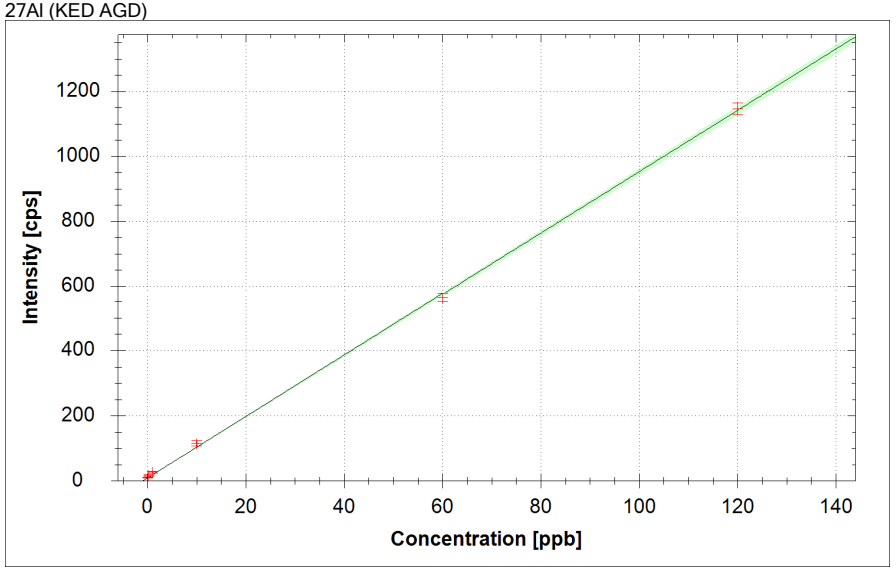
f(x) = 36.4434*x + 577.4075
R² = 1.0000
BEC = 15.844 ppb
LoD = 1.6720 ppb

24Mg (KED AGD)



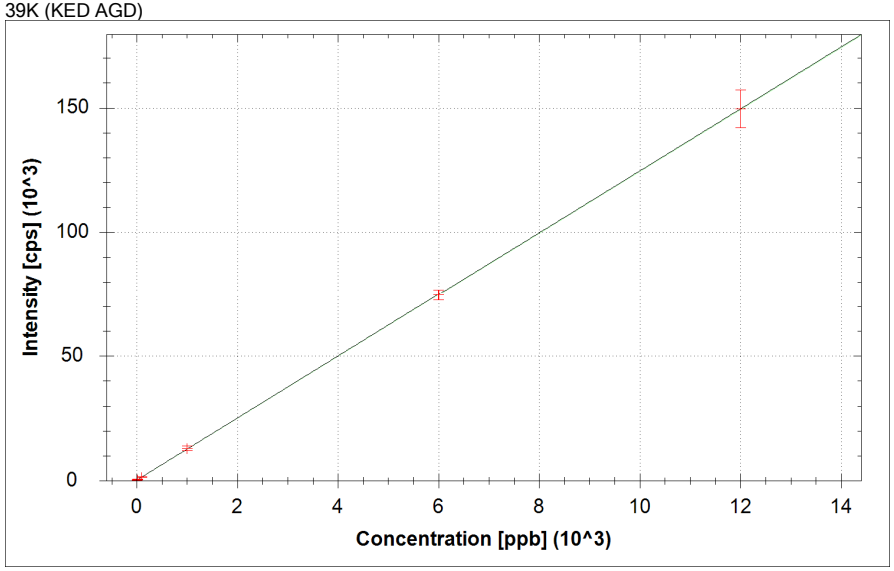
f(x) = 16.9161*x + 6.6646
R² = 1.0000
BEC = 0.394 ppb
LoD = 1.1623 ppb

27Al (KED AGD)



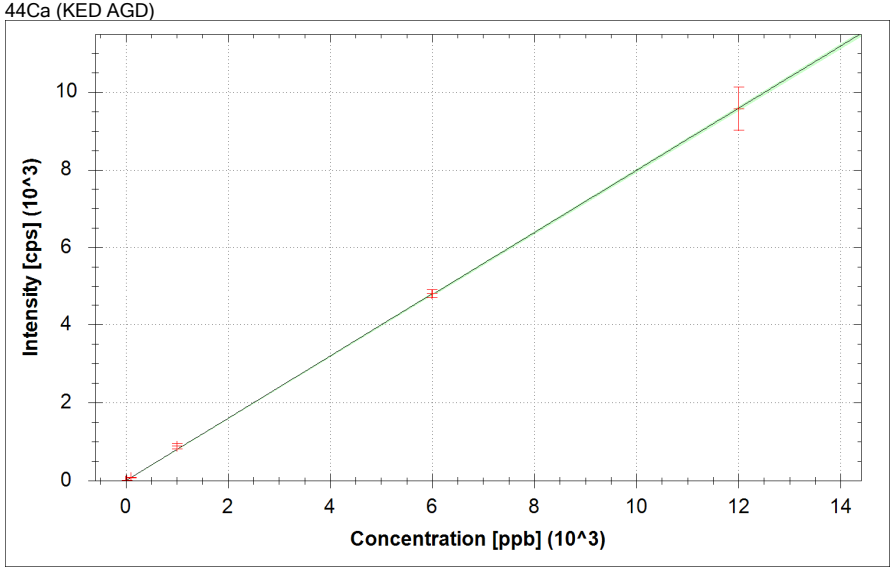
f(x) = 9.4352*x + 8.6822
R² = 0.9996
BEC = 0.920 ppb
LoD = 0.2846 ppb

39K (KED AGD)



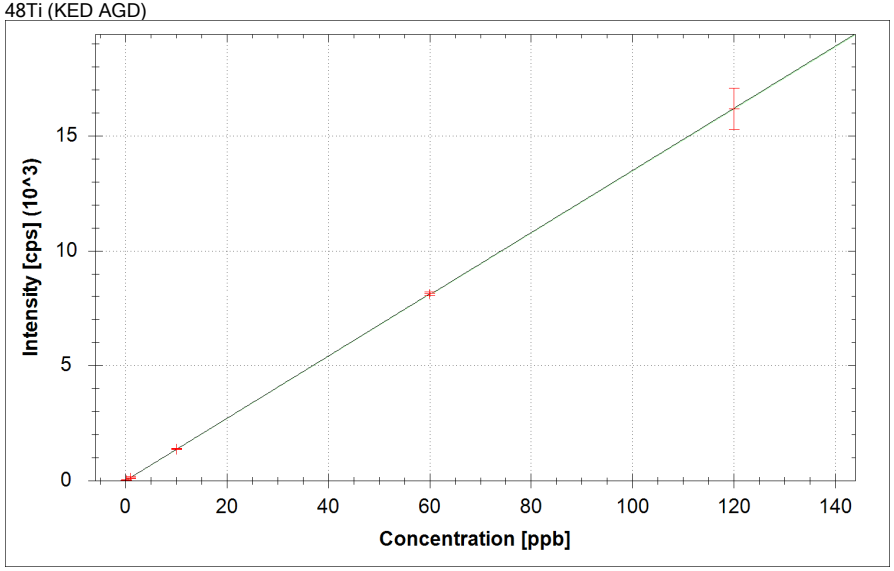
f(x) = 12.4359*x + 257.2226
R² = 1.0000
BEC = 20.684 ppb
LoD = 7.7848 ppb

44Ca (KED AGD)



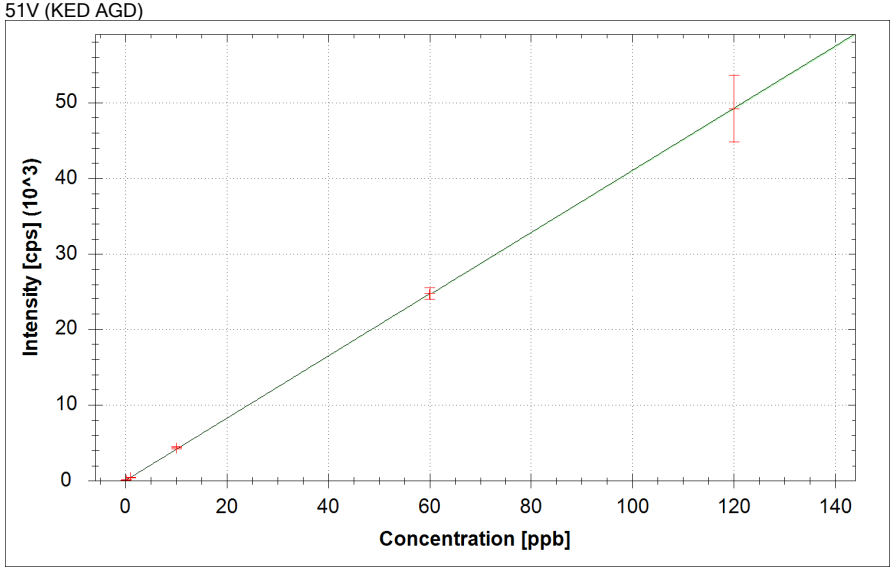
f(x) = 0.7981*x + 1.3079
R² = 0.9999
BEC = 1.639 ppb
LoD = 2.8116 ppb

48Ti (KED AGD)



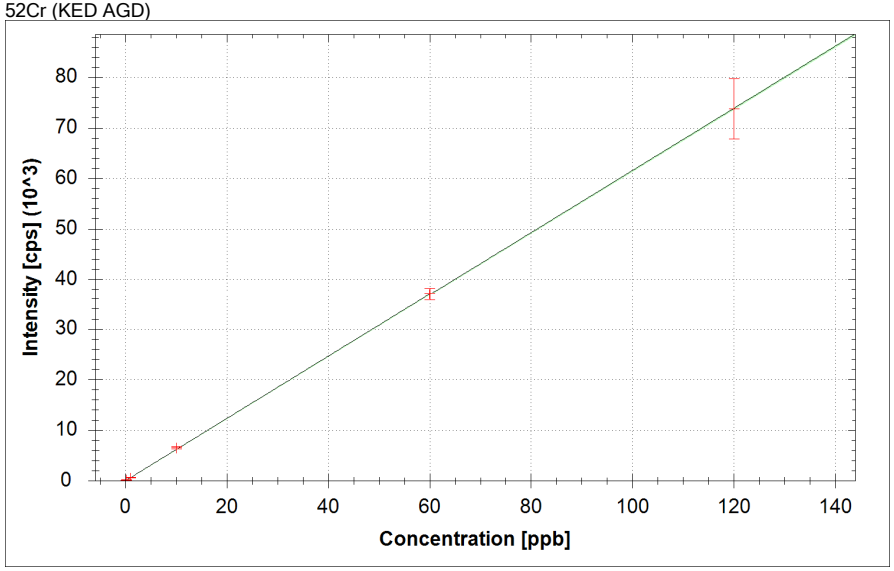
f(x) = 134.8530*x + 5.5651
R² = 1.0000
BEC = 0.041 ppb
LoD = 0.0435 ppb

51V (KED AGD)



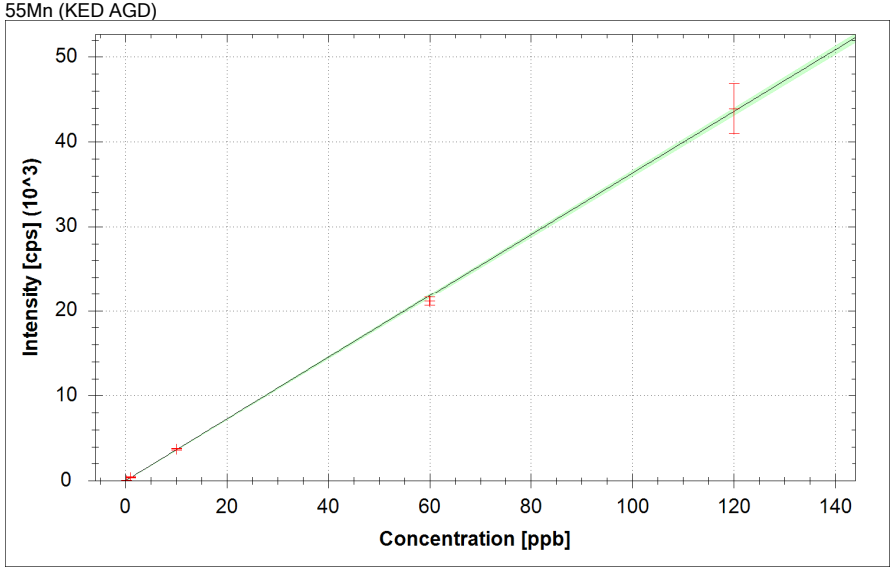
f(x) = 409.9923*x + 40.0614
R² = 1.0000
BEC = 0.098 ppb
LoD = 0.0514 ppb

52Cr (KED AGD)



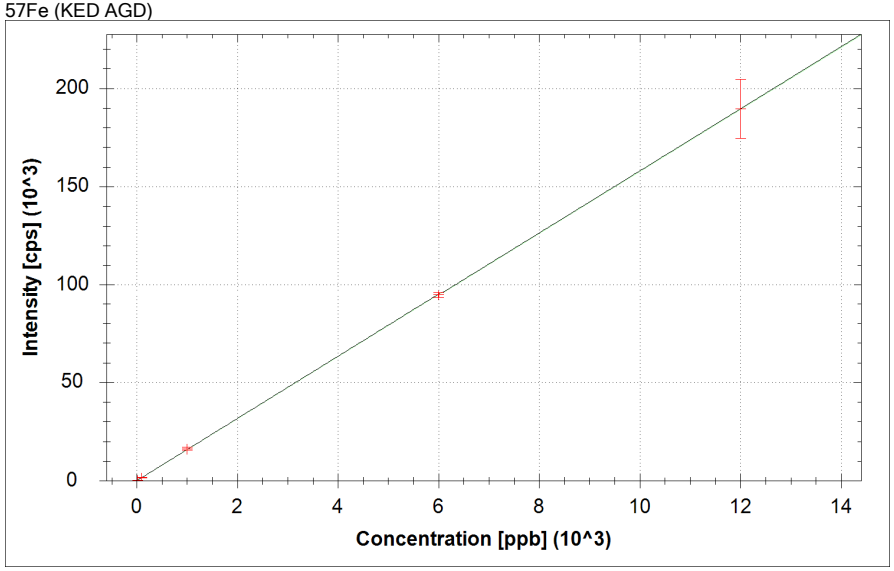
f(x) = 615.1334*x + 20.7936
R² = 1.0000
BEC = 0.034 ppb
LoD = 0.1049 ppb

55Mn (KED AGD)



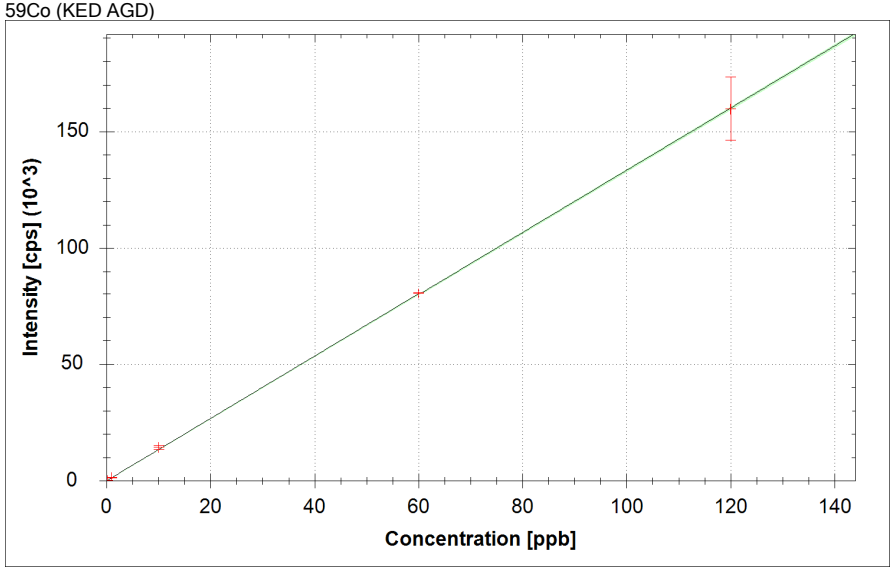
f(x) = 362.9983*x + 8.9554
R² = 0.9997
BEC = 0.025 ppb
LoD = 0.0341 ppb

57Fe (KED AGD)



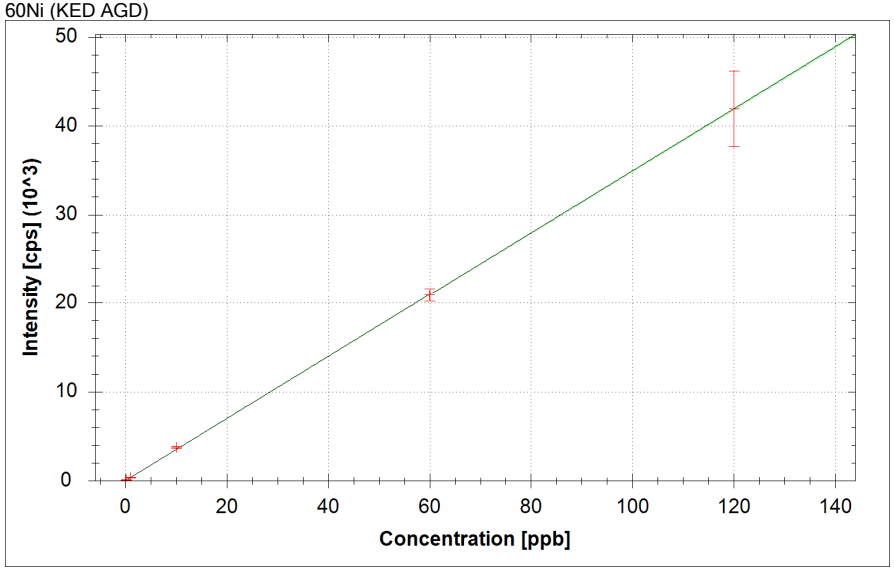
f(x) = 15.7914*x + 40.0725
R² = 1.0000
BEC = 2.538 ppb
LoD = 1.3517 ppb

59Co (KED AGD)



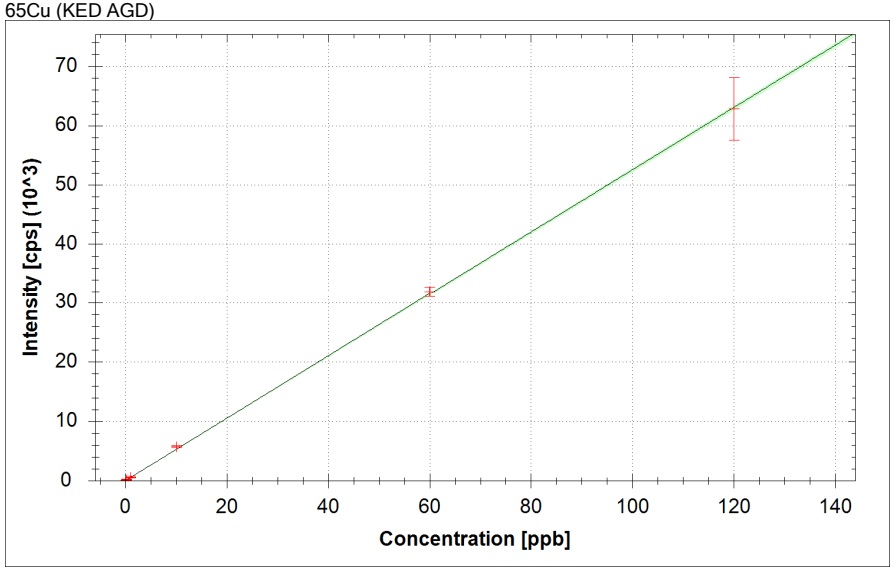
f(x) = 1333.0975*x
R² = 0.9999
BEC = 0.000 ppb
LoD = 0.0000 ppb

60Ni (KED AGD)



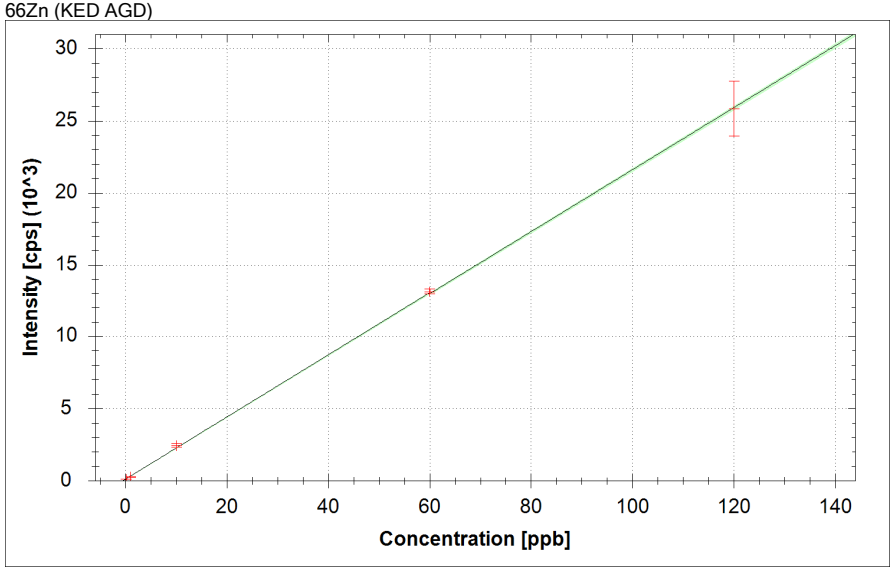
f(x) = 349.0025*x + 15.6820
R² = 1.0000
BEC = 0.045 ppb
LoD = 0.0685 ppb

65Cu (KED AGD)



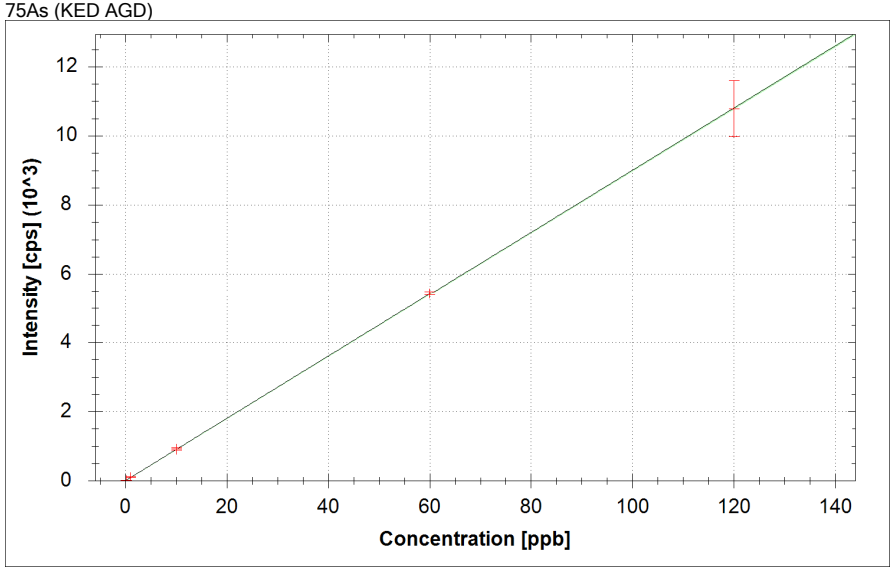
f(x) = 524.9731*x + 35.3492
R² = 0.9999
BEC = 0.067 ppb
LoD = 0.1150 ppb

66Zn (KED AGD)



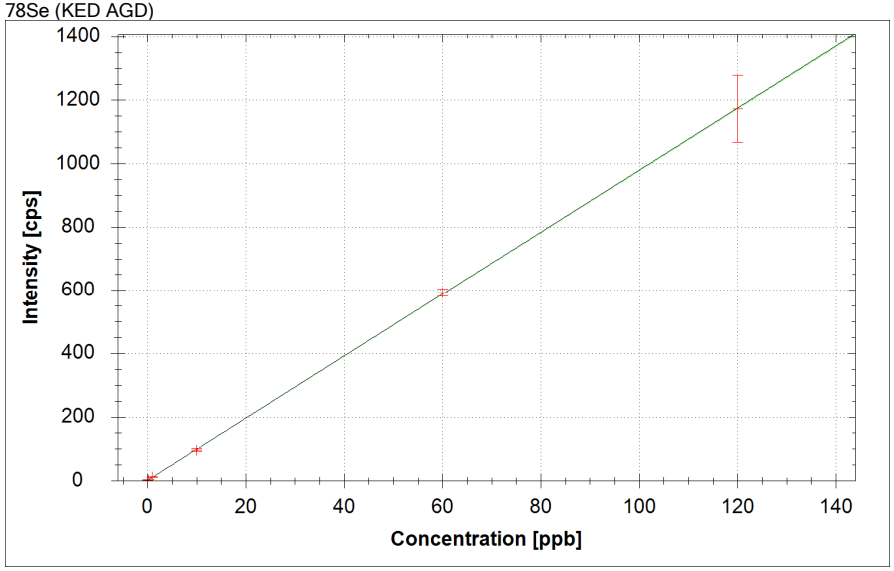
f(x) = 214.8710*x + 117.6059
R² = 0.9999
BEC = 0.547 ppb
LoD = 0.1828 ppb

75As (KED AGD)



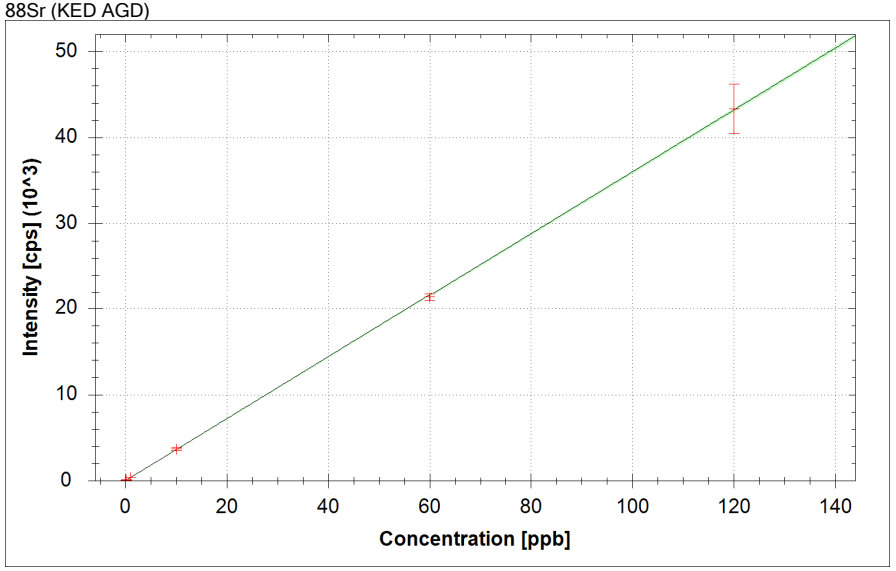
f(x) = 89.9569*x + 4.1741
R² = 1.0000
BEC = 0.046 ppb
LoD = 0.0492 ppb

78Se (KED AGD)



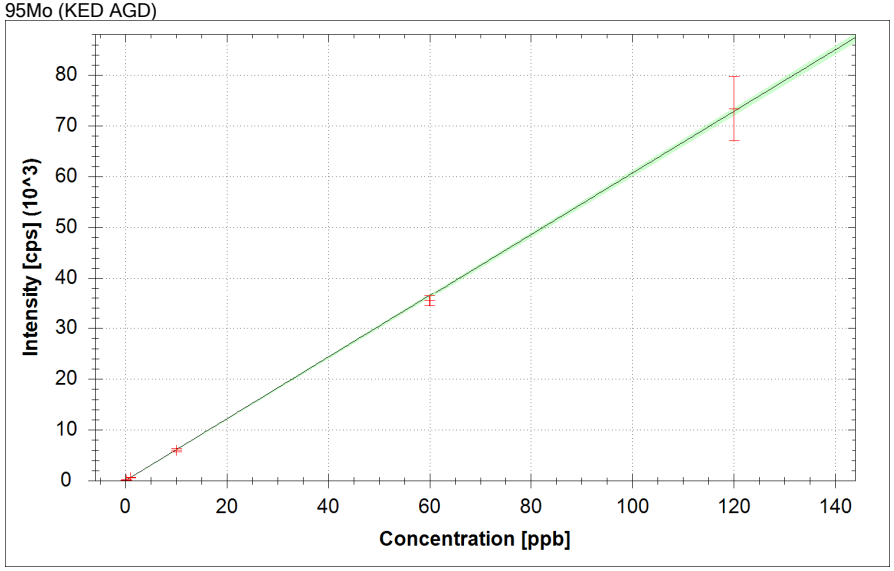
f(x) = 9.7759*x + 1.2045
R² = 1.0000
BEC = 0.123 ppb
LoD = 0.3504 ppb

88Sr (KED AGD)



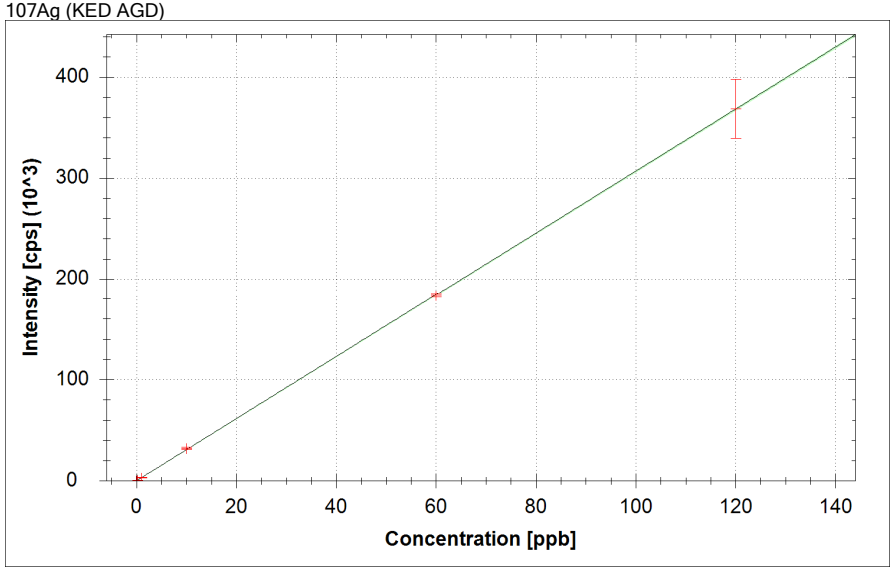
f(x) = 359.7499*x + 18.7651
R² = 0.9999
BEC = 0.052 ppb
LoD = 0.0135 ppb

95Mo (KED AGD)



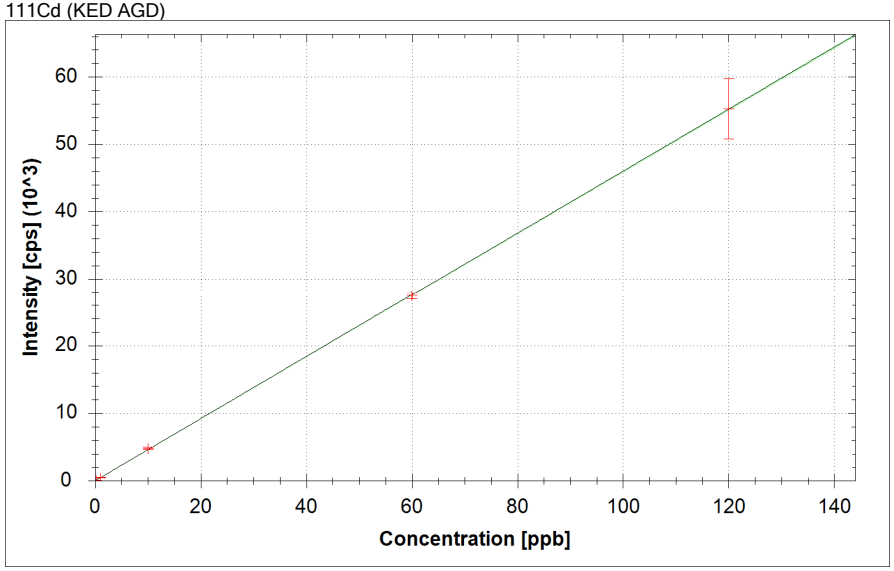
f(x) = 606.5171*x + 44.4665
R² = 0.9997
BEC = 0.073 ppb
LoD = 0.0390 ppb

107Ag (KED AGD)



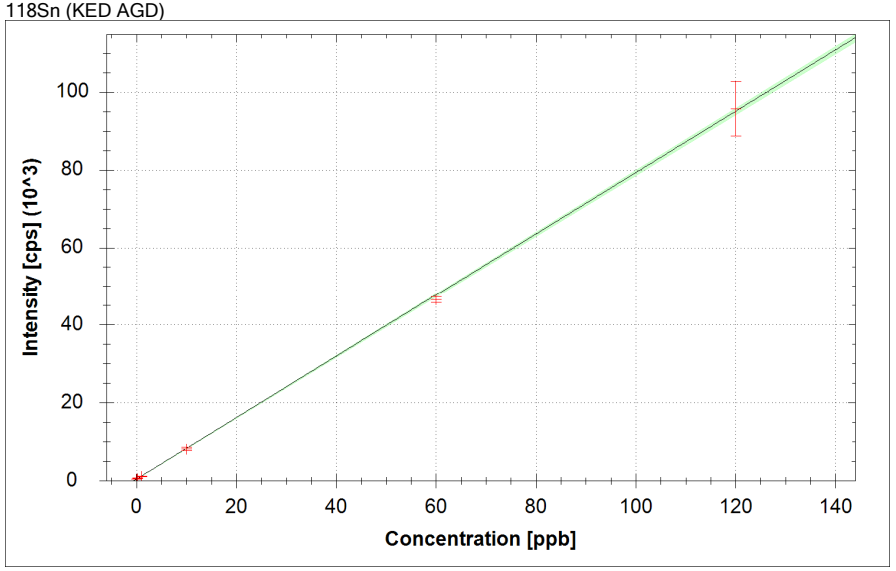
f(x) = 3069.2126*x + 4.4215
R² = 1.0000
BEC = 0.001 ppb
LoD = 0.0049 ppb

111Cd (KED AGD)



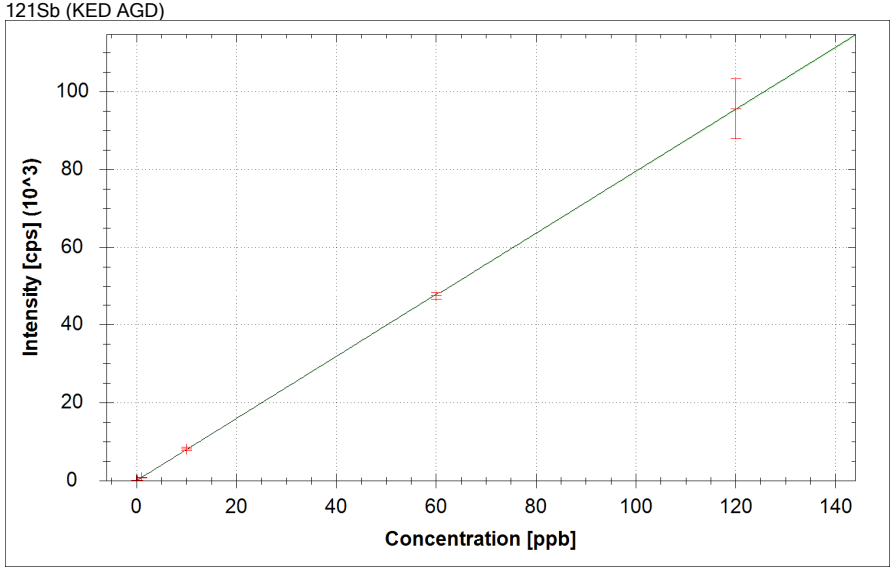
f(x) = 459.9405*x
R² = 1.0000
BEC = 0.000 ppb
LoD = 0.0000 ppb

118Sn (KED AGD)



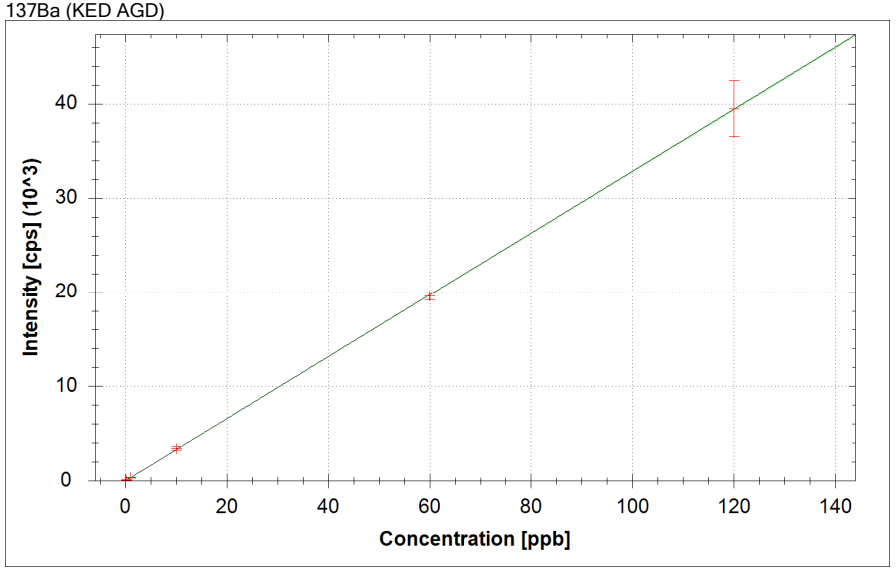
f(x) = 788.2251*x + 427.9074
R² = 0.9997
BEC = 0.543 ppb
LoD = 0.0430 ppb

121Sb (KED AGD)



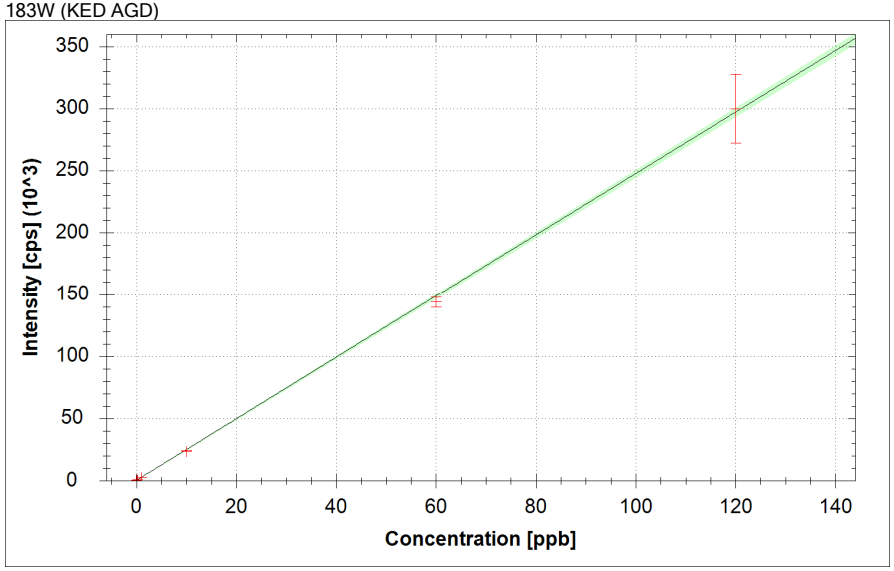
f(x) = 794.9821*x + 34.6513
R² = 1.0000
BEC = 0.044 ppb
LoD = 0.0084 ppb

137Ba (KED AGD)



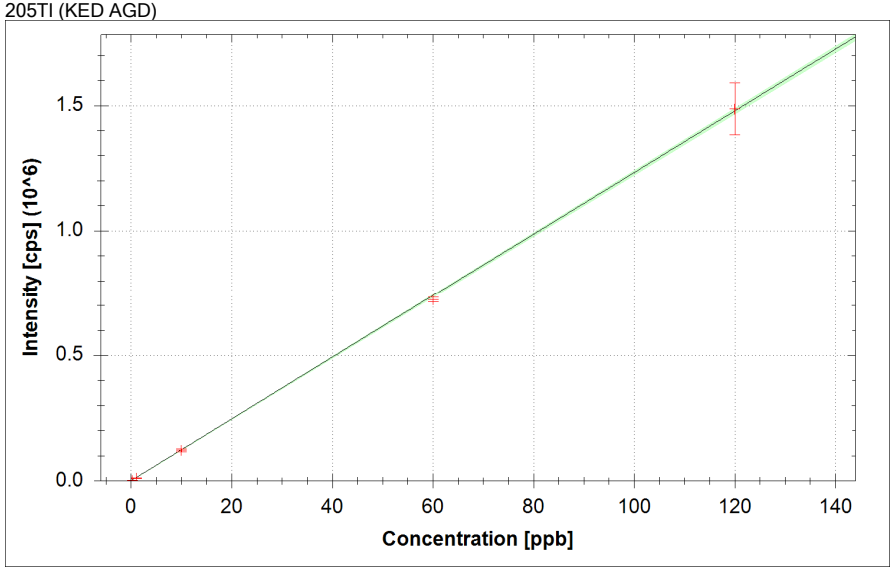
f(x) = 328.4137*x + 2.2423
R² = 1.0000
BEC = 0.007 ppb
LoD = 0.0355 ppb

183W (KED AGD)



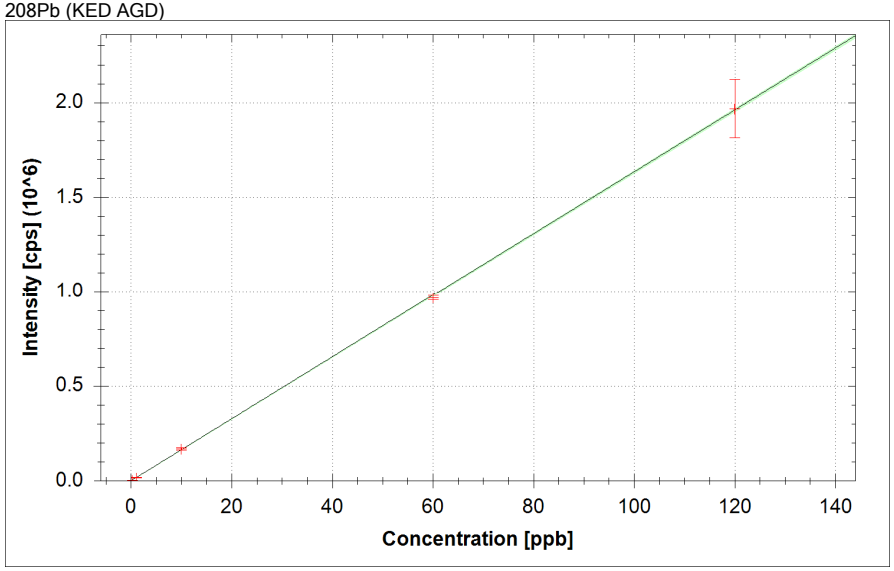
f(x) = 2472.5388*x + 395.0834
R² = 0.9995
BEC = 0.160 ppb
LoD = 0.0550 ppb

205TI (KED AGD)



f(x) = 12314.3301*x + 145.4608
R² = 0.9998
BEC = 0.012 ppb
LoD = 0.0034 ppb

208Pb (KED AGD)



f(x) = 16337.3268*x + 141.1400
R² = 0.9999
BEC = 0.009 ppb
LoD = 0.0021 ppb

Standards:

Analysis Index: 4
Analysis Name: 0.2/20 Cal
Analysis Type: STD
Analysis Started at: 10/29/2020 7:30:47 AM
Standard (Stock): Calibration Standard 6020/2008
Standard DF: 50000

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	104.278 %	3.4 %	
6Li (KED AGD)	107.905 %	3.4 %	
9Be (STD AGD)	0.164 ppb	5.7 %	0.200 ppb
23Na (KED AGD)	14.156 ppb	19.9 %	20.000 ppb
24Mg (KED AGD)	17.146 ppb	4.9 %	20.000 ppb
27Al (KED AGD)	0.714 ppb	57.3 %	0.200 ppb
39K (KED AGD)	15.820 ppb	40.1 %	20.000 ppb
44Ca (KED AGD)	14.780 ppb	38.2 %	20.000 ppb
45Sc (STD AGD)	105.454 %	2.1 %	
48Ti (KED AGD)	0.161 ppb	30.4 %	0.200 ppb
51V (KED AGD)	0.158 ppb	9.7 %	0.200 ppb
52Cr (KED AGD)	0.211 ppb	20.4 %	0.200 ppb
55Mn (KED AGD)	0.143 ppb	18.5 %	0.200 ppb
57Fe (KED AGD)	16.549 ppb	8.7 %	20.000 ppb
59Co (KED AGD)	0.117 ppb	30.8 %	0.200 ppb
60Ni (KED AGD)	0.202 ppb	43.2 %	0.200 ppb
65Cu (KED AGD)	0.272 ppb	41.0 %	0.200 ppb
66Zn (KED AGD)	-0.040 ppb	143.3 %	0.200 ppb
74Ge (KED AGD)	104.686 %	2.6 %	
75As (KED AGD)	0.146 ppb	10.2 %	0.200 ppb
78Se (KED AGD)	0.181 ppb	35.4 %	0.200 ppb
88Sr (KED AGD)	0.178 ppb	9.1 %	0.200 ppb
95Mo (KED AGD)	0.189 ppb	35.3 %	0.200 ppb
103Rh (KED AGD)	102.969 %	0.1 %	
107Ag (KED AGD)	0.190 ppb	8.4 %	0.200 ppb
111Cd (KED AGD)	0.174 ppb	13.0 %	0.200 ppb
115In (KED AGD)	103.658 %	2.0 %	
118Sn (KED AGD)	0.195 ppb	51.4 %	0.200 ppb
121Sb (KED AGD)	0.180 ppb	1.9 %	0.200 ppb
137Ba (KED AGD)	0.180 ppb	27.6 %	0.200 ppb
159Tb (KED AGD)	102.471 %	1.6 %	
175Lu (KED AGD)	102.569 %	2.5 %	
183W (KED AGD)	0.153 ppb	6.2 %	0.200 ppb
205Tl (KED AGD)	0.118 ppb	4.9 %	0.200 ppb
208Pb (KED AGD)	0.161 ppb	5.8 %	0.200 ppb
209Bi (KED AGD)	103.779 %	1.0 %	

Standards:

Analysis Index: 5
Analysis Name: 1/100 Cal
Analysis Type: STD
Analysis Started at: 10/29/2020 7:35:52 AM
Standard (Stock): Calibration Standard 6020/2008
Standard DF: 10000

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	103.404 %	1.8 %	
6Li (KED AGD)	111.459 %	6.0 %	
9Be (STD AGD)	0.933 ppb	1.9 %	1.000 ppb
23Na (KED AGD)	92.684 ppb	7.9 %	100.000 ppb
24Mg (KED AGD)	95.678 ppb	12.8 %	100.000 ppb
27Al (KED AGD)	1.845 ppb	15.6 %	1.000 ppb
39K (KED AGD)	94.774 ppb	11.3 %	100.000 ppb
44Ca (KED AGD)	97.865 ppb	13.7 %	100.000 ppb
45Sc (STD AGD)	105.524 %	2.0 %	
48Ti (KED AGD)	0.913 ppb	28.1 %	1.000 ppb
51V (KED AGD)	0.938 ppb	9.6 %	1.000 ppb
52Cr (KED AGD)	0.914 ppb	8.4 %	1.000 ppb
55Mn (KED AGD)	1.041 ppb	13.0 %	1.000 ppb
57Fe (KED AGD)	95.608 ppb	9.0 %	100.000 ppb
59Co (KED AGD)	0.998 ppb	17.6 %	1.000 ppb
60Ni (KED AGD)	0.963 ppb	10.7 %	1.000 ppb
65Cu (KED AGD)	1.080 ppb	21.3 %	1.000 ppb
66Zn (KED AGD)	0.676 ppb	7.2 %	1.000 ppb
74Ge (KED AGD)	104.014 %	3.1 %	
75As (KED AGD)	1.063 ppb	10.4 %	1.000 ppb
78Se (KED AGD)	1.104 ppb	5.4 %	1.000 ppb
88Sr (KED AGD)	1.004 ppb	5.8 %	1.000 ppb
95Mo (KED AGD)	0.944 ppb	8.0 %	1.000 ppb
103Rh (KED AGD)	101.894 %	3.8 %	
107Ag (KED AGD)	0.977 ppb	3.1 %	1.000 ppb
111Cd (KED AGD)	0.960 ppb	3.8 %	1.000 ppb
115In (KED AGD)	102.968 %	4.6 %	
118Sn (KED AGD)	0.908 ppb	13.9 %	1.000 ppb
121Sb (KED AGD)	0.968 ppb	5.1 %	1.000 ppb
137Ba (KED AGD)	1.008 ppb	11.4 %	1.000 ppb
159Tb (KED AGD)	102.546 %	4.1 %	
175Lu (KED AGD)	103.028 %	3.5 %	
183W (KED AGD)	0.909 ppb	7.1 %	1.000 ppb
205Tl (KED AGD)	0.856 ppb	8.1 %	1.000 ppb
208Pb (KED AGD)	0.969 ppb	9.1 %	1.000 ppb
209Bi (KED AGD)	102.703 %	3.9 %	

Standards:

Analysis Index: 6
Analysis Name: 10/1000 Cal
Analysis Type: STD
Analysis Started at: 10/29/2020 7:40:58 AM
Standard (Stock): Calibration Standard 6020/2008
Standard DF: 1000

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	109.993 %	2.3 %	
6Li (KED AGD)	108.117 %	3.4 %	
9Be (STD AGD)	9.570 ppb	2.5 %	10.000 ppb
23Na (KED AGD)	1,047.795 ppb	3.6 %	1,000.000 ppb
24Mg (KED AGD)	1,053.536 ppb	2.8 %	1,000.000 ppb
27Al (KED AGD)	11.180 ppb	7.6 %	10.000 ppb
39K (KED AGD)	1,020.252 ppb	6.8 %	1,000.000 ppb
44Ca (KED AGD)	1,106.561 ppb	7.8 %	1,000.000 ppb
45Sc (STD AGD)	114.099 %	0.8 %	
48Ti (KED AGD)	10.246 ppb	2.0 %	10.000 ppb
51V (KED AGD)	10.483 ppb	3.7 %	10.000 ppb
52Cr (KED AGD)	10.468 ppb	3.6 %	10.000 ppb
55Mn (KED AGD)	10.238 ppb	2.6 %	10.000 ppb
57Fe (KED AGD)	1,026.224 ppb	4.3 %	1,000.000 ppb
59Co (KED AGD)	10.684 ppb	5.7 %	10.000 ppb
60Ni (KED AGD)	10.700 ppb	2.3 %	10.000 ppb
65Cu (KED AGD)	10.882 ppb	3.7 %	10.000 ppb
66Zn (KED AGD)	10.783 ppb	5.5 %	10.000 ppb
74Ge (KED AGD)	106.276 %	1.3 %	
75As (KED AGD)	10.150 ppb	4.5 %	10.000 ppb
78Se (KED AGD)	9.768 ppb	4.8 %	10.000 ppb
88Sr (KED AGD)	10.130 ppb	4.7 %	10.000 ppb
95Mo (KED AGD)	9.812 ppb	6.4 %	10.000 ppb
103Rh (KED AGD)	104.781 %	1.4 %	
107Ag (KED AGD)	10.472 ppb	3.9 %	10.000 ppb
111Cd (KED AGD)	10.449 ppb	3.1 %	10.000 ppb
115In (KED AGD)	108.092 %	1.7 %	
118Sn (KED AGD)	9.810 ppb	6.6 %	10.000 ppb
121Sb (KED AGD)	10.227 ppb	5.1 %	10.000 ppb
137Ba (KED AGD)	10.377 ppb	5.9 %	10.000 ppb
159Tb (KED AGD)	106.366 %	0.9 %	
175Lu (KED AGD)	108.321 %	1.4 %	
183W (KED AGD)	9.474 ppb	1.8 %	10.000 ppb
205Tl (KED AGD)	9.820 ppb	4.8 %	10.000 ppb
208Pb (KED AGD)	10.266 ppb	3.7 %	10.000 ppb
209Bi (KED AGD)	106.552 %	2.4 %	

Standards:

Analysis Index: 7
Analysis Name: 60/6000 Cal
Analysis Type: STD
Analysis Started at: 10/29/2020 7:46:05 AM
Standard (Stock): Calibration Standard 6020/2008
Standard DF: 166.6666666

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	108.119 %	4.3 %	
6Li (KED AGD)	113.104 %	7.9 %	
9Be (STD AGD)	60.073 ppb	2.3 %	60.000 ppb
23Na (KED AGD)	5,968.410 ppb	4.2 %	6,000.000 ppb
24Mg (KED AGD)	6,004.719 ppb	3.4 %	6,000.000 ppb
27Al (KED AGD)	58.693 ppb	2.2 %	60.000 ppb
39K (KED AGD)	5,983.516 ppb	2.8 %	6,000.000 ppb
44Ca (KED AGD)	6,017.924 ppb	2.4 %	6,000.000 ppb
45Sc (STD AGD)	121.158 %	0.8 %	
48Ti (KED AGD)	60.180 ppb	1.2 %	60.000 ppb
51V (KED AGD)	60.201 ppb	3.3 %	60.000 ppb
52Cr (KED AGD)	60.151 ppb	3.3 %	60.000 ppb
55Mn (KED AGD)	58.191 ppb	2.4 %	60.000 ppb
57Fe (KED AGD)	5,992.564 ppb	1.6 %	6,000.000 ppb
59Co (KED AGD)	60.335 ppb	0.5 %	60.000 ppb
60Ni (KED AGD)	59.814 ppb	3.5 %	60.000 ppb
65Cu (KED AGD)	60.669 ppb	2.7 %	60.000 ppb
66Zn (KED AGD)	60.546 ppb	1.6 %	60.000 ppb
74Ge (KED AGD)	108.581 %	2.0 %	
75As (KED AGD)	60.386 ppb	1.0 %	60.000 ppb
78Se (KED AGD)	60.444 ppb	2.0 %	60.000 ppb
88Sr (KED AGD)	59.185 ppb	1.9 %	60.000 ppb
95Mo (KED AGD)	58.286 ppb	2.9 %	60.000 ppb
103Rh (KED AGD)	106.937 %	1.1 %	
107Ag (KED AGD)	59.699 ppb	0.8 %	60.000 ppb
111Cd (KED AGD)	59.665 ppb	1.8 %	60.000 ppb
115In (KED AGD)	110.856 %	3.0 %	
118Sn (KED AGD)	58.391 ppb	1.7 %	60.000 ppb
121Sb (KED AGD)	59.600 ppb	2.1 %	60.000 ppb
137Ba (KED AGD)	59.569 ppb	1.8 %	60.000 ppb
159Tb (KED AGD)	110.650 %	1.4 %	
175Lu (KED AGD)	111.696 %	2.4 %	
183W (KED AGD)	57.940 ppb	2.8 %	60.000 ppb
205Tl (KED AGD)	58.634 ppb	1.3 %	60.000 ppb
208Pb (KED AGD)	59.185 ppb	1.0 %	60.000 ppb
209Bi (KED AGD)	109.030 %	1.1 %	

Standards:

Analysis Index: 8
Analysis Name: 120/12000 Cal
Analysis Type: STD
Analysis Started at: 10/29/2020 7:51:10 AM
Standard (Stock): Calibration Standard 6020/2008
Standard DF: 83.33333333

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	112.383 %	2.2 %	
6Li (KED AGD)	116.711 %	3.6 %	
9Be (STD AGD)	116.480 ppb	2.5 %	120.000 ppb
23Na (KED AGD)	12,011.883 ppb	5.0 %	12,000.000 ppb
24Mg (KED AGD)	11,993.220 ppb	5.6 %	12,000.000 ppb
27Al (KED AGD)	120.547 ppb	1.6 %	120.000 ppb
39K (KED AGD)	12,006.605 ppb	5.1 %	12,000.000 ppb
44Ca (KED AGD)	11,982.184 ppb	5.8 %	12,000.000 ppb
45Sc (STD AGD)	132.080 %	0.6 %	
48Ti (KED AGD)	119.890 ppb	5.5 %	120.000 ppb
51V (KED AGD)	119.860 ppb	8.9 %	120.000 ppb
52Cr (KED AGD)	119.886 ppb	8.1 %	120.000 ppb
55Mn (KED AGD)	120.884 ppb	6.7 %	120.000 ppb
57Fe (KED AGD)	12,001.575 ppb	7.9 %	12,000.000 ppb
59Co (KED AGD)	119.776 ppb	8.5 %	120.000 ppb
60Ni (KED AGD)	120.035 ppb	10.2 %	120.000 ppb
65Cu (KED AGD)	119.591 ppb	8.4 %	120.000 ppb
66Zn (KED AGD)	119.665 ppb	7.4 %	120.000 ppb
74Ge (KED AGD)	111.064 %	6.0 %	
75As (KED AGD)	119.794 ppb	7.5 %	120.000 ppb
78Se (KED AGD)	119.797 ppb	9.0 %	120.000 ppb
88Sr (KED AGD)	120.397 ppb	6.7 %	120.000 ppb
95Mo (KED AGD)	120.873 ppb	8.6 %	120.000 ppb
103Rh (KED AGD)	107.120 %	4.3 %	
107Ag (KED AGD)	120.112 ppb	7.9 %	120.000 ppb
111Cd (KED AGD)	120.131 ppb	8.1 %	120.000 ppb
115In (KED AGD)	112.318 %	5.9 %	
118Sn (KED AGD)	120.821 ppb	7.3 %	120.000 ppb
121Sb (KED AGD)	120.181 ppb	8.0 %	120.000 ppb
137Ba (KED AGD)	120.184 ppb	7.5 %	120.000 ppb
159Tb (KED AGD)	112.561 %	5.3 %	
175Lu (KED AGD)	113.958 %	6.9 %	
183W (KED AGD)	121.075 ppb	9.2 %	120.000 ppb
205Tl (KED AGD)	120.699 ppb	7.0 %	120.000 ppb
208Pb (KED AGD)	120.386 ppb	7.8 %	120.000 ppb
209Bi (KED AGD)	108.016 %	4.0 %	

Analysis index:	1	Analysis started at:	10/29/2020 7:15:29 AM
Analysis label:	Rinse	User name:	ALPHALAB\Metals-Instrument

Analysis index:	2	Analysis started at:	10/29/2020 7:20:33 AM
Analysis label:	CAL LOT#M0163	User name:	ALPHALAB\Metals-Instrument

Analysis index: 3
Analysis label: Blank AM ICPMSQ2
Analysis started at: 10/29/2020 7:25:38 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.0 %	0.0 %	6.2 %	0.0 %	1.0 %	0.1 %	0.1 %	0.6 %	0.0 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb
Concentration RSD	0.4 %	0.2 %	1.0 %	0.5 %	0.2 %		0.5 %	0.6 %	0.1 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.0 %	0.4 %	0.9 %	0.1 %	0.2 %	0.0 %	1.1 %		0.0 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.0 %	0.1 %	1.7 %	0.0 %	0.0 %	0.1 %	0.1 %	0.1 %	0.0 %

Analysis index: 4
Analysis label: 0.2/20 Cal
Analysis started at: 10/29/2020 7:30:47 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	104.278 %	107.905 %	0.164 ppb	14.156 ppb	17.146 ppb	0.714 ppb	15.820 ppb	14.780 ppb	105.454 %
Concentration per Run 1	108.360 %	112.202 %	0.170 ppb	12.257 ppb	17.965 ppb	0.246 ppb	11.818 ppb	18.078 ppb	107.534 %
Concentration per Run 2	101.665 %	105.836 %	0.153 ppb	12.814 ppb	16.298 ppb	1.007 ppb	12.511 ppb	8.255 ppb	103.108 %
Concentration per Run 3	102.809 %	105.676 %	0.168 ppb	17.398 ppb	17.175 ppb	0.890 ppb	23.130 ppb	18.006 ppb	105.721 %
Concentration RSD	3.4 %	3.4 %	5.7 %	19.9 %	4.9 %	57.3 %	40.1 %	38.2 %	2.1 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.161 ppb	0.158 ppb	0.211 ppb	0.143 ppb	16.549 ppb	0.117 ppb	0.202 ppb	0.272 ppb	-0.040 ppb
Concentration per Run 1	0.216 ppb	0.149 ppb	0.188 ppb	0.168 ppb	18.068 ppb	0.158 ppb	0.120 ppb	0.277 ppb	-0.066 ppb
Concentration per Run 2	0.121 ppb	0.176 ppb	0.184 ppb	0.147 ppb	15.218 ppb	0.103 ppb	0.294 ppb	0.158 ppb	0.026 ppb
Concentration per Run 3	0.147 ppb	0.150 ppb	0.260 ppb	0.115 ppb	16.363 ppb	0.091 ppb	0.192 ppb	0.381 ppb	-0.080 ppb
Concentration RSD	30.4 %	9.7 %	20.4 %	18.5 %	8.7 %	30.8 %	43.2 %	41.0 %	143.3 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	104.686 %	0.146 ppb	0.181 ppb	0.178 ppb	0.189 ppb	102.969 %	0.190 ppb	0.174 ppb	103.658 %
Concentration per Run 1	101.921 %	0.163 ppb	0.111 ppb	0.159 ppb	0.248 ppb	103.066 %	0.178 ppb	0.154 ppb	101.351 %
Concentration per Run 2	107.388 %	0.135 ppb	0.196 ppb	0.189 ppb	0.117 ppb	103.020 %	0.184 ppb	0.198 ppb	104.376 %
Concentration per Run 3	104.749 %	0.139 ppb	0.236 ppb	0.186 ppb	0.203 ppb	102.821 %	0.208 ppb	0.169 ppb	105.247 %
Concentration RSD	2.6 %	10.2 %	35.4 %	9.1 %	35.3 %	0.1 %	8.4 %	13.0 %	2.0 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.195 ppb	0.180 ppb	0.180 ppb	102.471 %	102.569 %	0.153 ppb	0.118 ppb	0.161 ppb	103.779 %
Concentration per Run 1	0.087 ppb	0.183 ppb	0.154 ppb	100.632 %	99.687 %	0.142 ppb	0.122 ppb	0.151 ppb	103.102 %
Concentration per Run 2	0.211 ppb	0.178 ppb	0.237 ppb	103.346 %	103.671 %	0.159 ppb	0.111 ppb	0.170 ppb	103.257 %
Concentration per Run 3	0.286 ppb	0.177 ppb	0.149 ppb	103.435 %	104.349 %	0.159 ppb	0.120 ppb	0.160 ppb	104.978 %
Concentration RSD	51.4 %	1.9 %	27.6 %	1.6 %	2.5 %	6.2 %	4.9 %	5.8 %	1.0 %

Analysis index: 5
Analysis label: 1/100 Cal
Analysis started at: 10/29/2020 7:35:52 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	103.404 %	111.459 %	0.933 ppb	92.684 ppb	95.678 ppb	1.845 ppb	94.774 ppb	97.865 ppb	105.524 %
Concentration per Run 1	105.103 %	110.769 %	0.950 ppb	89.134 ppb	84.137 ppb	1.559 ppb	91.196 ppb	112.975 ppb	103.712 %
Concentration per Run 2	101.411 %	118.409 %	0.915 ppb	87.856 ppb	94.400 ppb	1.842 ppb	86.319 ppb	87.372 ppb	105.035 %
Concentration per Run 3	103.697 %	105.199 %	0.933 ppb	101.061 ppb	108.495 ppb	2.135 ppb	106.807 ppb	93.250 ppb	107.825 %
Concentration RSD	1.8 %	6.0 %	1.9 %	7.9 %	12.8 %	15.6 %	11.3 %	13.7 %	2.0 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.913 ppb	0.938 ppb	0.914 ppb	1.041 ppb	95.608 ppb	0.998 ppb	0.963 ppb	1.080 ppb	0.676 ppb
Concentration per Run 1	0.800 ppb	0.889 ppb	0.836 ppb	1.043 ppb	103.086 ppb	0.991 ppb	0.852 ppb	0.899 ppb	0.728 ppb
Concentration per Run 2	0.732 ppb	1.041 ppb	0.917 ppb	0.904 ppb	86.177 ppb	0.827 ppb	0.980 ppb	1.003 ppb	0.631 ppb
Concentration per Run 3	1.207 ppb	0.883 ppb	0.989 ppb	1.175 ppb	97.562 ppb	1.177 ppb	1.056 ppb	1.339 ppb	0.669 ppb
Concentration RSD	28.1 %	9.6 %	8.4 %	13.0 %	9.0 %	17.6 %	10.7 %	21.3 %	7.2 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	104.014 %	1.063 ppb	1.104 ppb	1.004 ppb	0.944 ppb	101.894 %	0.977 ppb	0.960 ppb	102.968 %
Concentration per Run 1	102.712 %	1.180 ppb	1.036 ppb	0.984 ppb	0.891 ppb	104.149 %	0.988 ppb	0.970 ppb	101.299 %
Concentration per Run 2	107.741 %	0.961 ppb	1.149 ppb	0.958 ppb	0.910 ppb	104.062 %	0.943 ppb	0.919 ppb	108.297 %
Concentration per Run 3	101.589 %	1.049 ppb	1.126 ppb	1.069 ppb	1.030 ppb	97.470 %	1.000 ppb	0.990 ppb	99.308 %
Concentration RSD	3.1 %	10.4 %	5.4 %	5.8 %	8.0 %	3.8 %	3.1 %	3.8 %	4.6 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.908 ppb	0.968 ppb	1.008 ppb	102.546 %	103.028 %	0.909 ppb	0.856 ppb	0.969 ppb	102.703 %
Concentration per Run 1	0.803 ppb	0.944 ppb	0.882 ppb	104.269 %	103.419 %	0.862 ppb	0.821 ppb	0.904 ppb	103.798 %
Concentration per Run 2	0.873 ppb	0.934 ppb	1.037 ppb	105.637 %	106.416 %	0.882 ppb	0.811 ppb	0.933 ppb	106.065 %
Concentration per Run 3	1.047 ppb	1.024 ppb	1.106 ppb	97.730 %	99.251 %	0.982 ppb	0.936 ppb	1.069 ppb	98.246 %
Concentration RSD	13.9 %	5.1 %	11.4 %	4.1 %	3.5 %	7.1 %	8.1 %	9.1 %	3.9 %

Analysis index: 6
Analysis label: 10/1000 Cal
Analysis started at: 10/29/2020 7:40:58 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	109.993 %	108.117 %	9.570 ppb	1,047.795 ppb	1,053.536 ppb	11.180 ppb	1,020.252 ppb	1,106.561 ppb	114.099 %
Concentration per Run 1	112.610 %	104.722 %	9.298 ppb	1,030.136 ppb	1,028.660 ppb	12.155 ppb	950.765 ppb	1,010.653 ppb	114.432 %
Concentration per Run 2	109.739 %	112.043 %	9.662 ppb	1,022.537 ppb	1,046.213 ppb	10.759 ppb	1,020.787 ppb	1,133.082 ppb	113.111 %
Concentration per Run 3	107.630 %	107.586 %	9.751 ppb	1,090.712 ppb	1,085.734 ppb	10.626 ppb	1,089.203 ppb	1,175.948 ppb	114.754 %
Concentration RSD	2.3 %	3.4 %	2.5 %	3.6 %	2.8 %	7.6 %	6.8 %	7.8 %	0.8 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	10.246 ppb	10.483 ppb	10.468 ppb	10.238 ppb	1,026.224 ppb	10.684 ppb	10.700 ppb	10.882 ppb	10.783 ppb
Concentration per Run 1	10.016 ppb	10.376 ppb	10.200 ppb	10.018 ppb	990.393 ppb	9.987 ppb	10.579 ppb	10.840 ppb	10.098 ppb
Concentration per Run 2	10.399 ppb	10.164 ppb	10.301 ppb	10.159 ppb	1,013.414 ppb	11.077 ppb	10.982 ppb	10.498 ppb	11.090 ppb
Concentration per Run 3	10.325 ppb	10.910 ppb	10.904 ppb	10.538 ppb	1,074.865 ppb	10.988 ppb	10.540 ppb	11.308 ppb	11.161 ppb
Concentration RSD	2.0 %	3.7 %	3.6 %	2.6 %	4.3 %	5.7 %	2.3 %	3.7 %	5.5 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	106.276 %	10.150 ppb	9.768 ppb	10.130 ppb	9.812 ppb	104.781 %	10.472 ppb	10.449 ppb	108.092 %
Concentration per Run 1	105.097 %	9.693 ppb	9.444 ppb	9.592 ppb	9.103 ppb	105.390 %	10.031 ppb	10.099 ppb	107.681 %
Concentration per Run 2	107.750 %	10.148 ppb	9.553 ppb	10.313 ppb	10.017 ppb	105.807 %	10.563 ppb	10.512 ppb	110.078 %
Concentration per Run 3	105.982 %	10.610 ppb	10.307 ppb	10.486 ppb	10.315 ppb	103.145 %	10.822 ppb	10.738 ppb	106.517 %
Concentration RSD	1.3 %	4.5 %	4.8 %	4.7 %	6.4 %	1.4 %	3.9 %	3.1 %	1.7 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	9.810 ppb	10.227 ppb	10.377 ppb	106.366 %	108.321 %	9.474 ppb	9.820 ppb	10.266 ppb	106.552 %
Concentration per Run 1	9.204 ppb	9.705 ppb	9.670 ppb	106.328 %	107.276 %	9.409 ppb	9.304 ppb	9.849 ppb	108.495 %
Concentration per Run 2	9.732 ppb	10.229 ppb	10.749 ppb	107.369 %	109.999 %	9.348 ppb	9.925 ppb	10.373 ppb	107.495 %
Concentration per Run 3	10.494 ppb	10.747 ppb	10.714 ppb	105.402 %	107.688 %	9.667 ppb	10.231 ppb	10.577 ppb	103.665 %
Concentration RSD	6.6 %	5.1 %	5.9 %	0.9 %	1.4 %	1.8 %	4.8 %	3.7 %	2.4 %

Analysis index: 7
Analysis label: 60/6000 Cal
Analysis started at: 10/29/2020 7:46:05 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	108.119 %	113.104 %	60.073 ppb	5,968.410 ppb	6,004.719 ppb	58.693 ppb	5,983.516 ppb	6,017.924 ppb	121.158 %
Concentration per Run 1	113.175 %	103.607 %	58.481 ppb	6,189.409 ppb	6,195.452 ppb	60.189 ppb	5,984.249 ppb	5,963.572 ppb	122.265 %
Concentration per Run 2	107.029 %	121.274 %	60.593 ppb	5,700.100 ppb	5,789.942 ppb	57.924 ppb	5,814.149 ppb	5,907.647 ppb	120.266 %
Concentration per Run 3	104.153 %	114.430 %	61.145 ppb	6,015.722 ppb	6,028.762 ppb	57.966 ppb	6,152.150 ppb	6,182.554 ppb	120.943 %
Concentration RSD	4.3 %	7.9 %	2.3 %	4.2 %	3.4 %	2.2 %	2.8 %	2.4 %	0.8 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	60.180 ppb	60.201 ppb	60.151 ppb	58.191 ppb	5,992.564 ppb	60.335 ppb	59.814 ppb	60.669 ppb	60.546 ppb
Concentration per Run 1	60.897 ppb	61.642 ppb	62.274 ppb	59.104 ppb	6,094.821 ppb	60.618 ppb	61.398 ppb	62.167 ppb	61.385 ppb
Concentration per Run 2	59.489 ppb	57.906 ppb	58.322 ppb	56.611 ppb	5,910.385 ppb	60.058 ppb	57.479 ppb	58.876 ppb	59.472 ppb
Concentration per Run 3	60.154 ppb	61.055 ppb	59.857 ppb	58.858 ppb	5,972.487 ppb	60.329 ppb	60.565 ppb	60.963 ppb	60.781 ppb
Concentration RSD	1.2 %	3.3 %	3.3 %	2.4 %	1.6 %	0.5 %	3.5 %	2.7 %	1.6 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	108.581 %	60.386 ppb	60.444 ppb	59.185 ppb	58.286 ppb	106.937 %	59.699 ppb	59.665 ppb	110.856 %
Concentration per Run 1	106.211 %	60.257 ppb	60.700 ppb	57.916 ppb	60.210 ppb	105.580 %	60.231 ppb	60.875 ppb	107.020 %
Concentration per Run 2	110.401 %	61.017 ppb	61.499 ppb	59.556 ppb	57.265 ppb	107.526 %	59.283 ppb	59.373 ppb	112.522 %
Concentration per Run 3	109.130 %	59.882 ppb	59.131 ppb	60.084 ppb	57.383 ppb	107.705 %	59.582 ppb	58.746 ppb	113.028 %
Concentration RSD	2.0 %	1.0 %	2.0 %	1.9 %	2.9 %	1.1 %	0.8 %	1.8 %	3.0 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.391 ppb	59.600 ppb	59.569 ppb	110.650 %	111.696 %	57.940 ppb	58.634 ppb	59.185 ppb	109.030 %
Concentration per Run 1	59.498 ppb	61.035 ppb	59.105 ppb	108.927 %	108.647 %	59.820 ppb	59.082 ppb	59.688 ppb	107.819 %
Concentration per Run 2	57.660 ppb	58.753 ppb	60.797 ppb	111.394 %	113.341 %	56.968 ppb	57.740 ppb	58.513 ppb	110.281 %
Concentration per Run 3	58.014 ppb	59.012 ppb	58.804 ppb	111.629 %	113.101 %	57.032 ppb	59.079 ppb	59.352 ppb	108.990 %
Concentration RSD	1.7 %	2.1 %	1.8 %	1.4 %	2.4 %	2.8 %	1.3 %	1.0 %	1.1 %

Analysis index: 8
Analysis label: 120/12000 Cal
Analysis started at: 10/29/2020 7:51:10 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	112.383 %	116.711 %	115.493 ppb	12,011.883 ppb	11,993.220 ppb	120.547 ppb	12,006.605 ppb	11,982.184 ppb	132.080 %
Concentration per Run 1	115.193 %	111.883 %	113.836 ppb	12,600.730 ppb	12,639.827 ppb	120.942 ppb	12,621.382 ppb	12,555.031 ppb	131.202 %
Concentration per Run 2	111.462 %	118.727 %	115.918 ppb	12,033.732 ppb	12,030.551 ppb	122.247 ppb	11,994.055 ppb	12,181.694 ppb	132.125 %
Concentration per Run 3	110.495 %	119.523 %	119.686 ppb	11,401.186 ppb	11,309.282 ppb	118.453 ppb	11,404.377 ppb	11,209.828 ppb	132.915 %
Concentration RSD	2.2 %	3.6 %	2.5 %	5.0 %	5.6 %	1.6 %	5.1 %	5.8 %	0.6 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	119.890 ppb	119.860 ppb	119.886 ppb	120.884 ppb	12,001.575 ppb	119.776 ppb	120.035 ppb	119.591 ppb	119.665 ppb
Concentration per Run 1	126.242 ppb	130.671 ppb	129.407 ppb	129.255 ppb	12,933.710 ppb	130.093 ppb	132.746 ppb	129.989 ppb	128.596 ppb
Concentration per Run 2	120.362 ppb	119.675 ppb	120.263 ppb	120.343 ppb	12,034.425 ppb	119.461 ppb	118.965 ppb	118.937 ppb	119.564 ppb
Concentration per Run 3	113.066 ppb	109.233 ppb	109.988 ppb	113.056 ppb	11,036.589 ppb	109.773 ppb	108.394 ppb	109.848 ppb	110.834 ppb
Concentration RSD	5.5 %	8.9 %	8.1 %	6.7 %	7.9 %	8.5 %	10.2 %	8.4 %	7.4 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	111.064 %	119.794 ppb	119.797 ppb	120.397 ppb	120.873 ppb	107.120 %	120.112 ppb	120.131 ppb	112.318 %
Concentration per Run 1	103.706 %	128.939 ppb	128.832 ppb	127.461 ppb	129.625 ppb	103.152 %	129.697 ppb	129.700 ppb	105.291 %
Concentration per Run 2	112.875 %	119.579 ppb	122.690 ppb	122.050 ppb	123.653 ppb	105.964 %	119.976 ppb	120.470 ppb	113.309 %
Concentration per Run 3	116.611 %	110.866 ppb	107.869 ppb	111.678 ppb	109.341 ppb	112.245 %	110.661 ppb	110.221 ppb	118.355 %
Concentration RSD	6.0 %	7.5 %	9.0 %	6.7 %	8.6 %	4.3 %	7.9 %	8.1 %	5.9 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	120.821 ppb	120.181 ppb	120.184 ppb	112.561 %	113.958 %	121.075 ppb	120.699 ppb	120.386 ppb	108.016 %
Concentration per Run 1	129.047 ppb	129.199 ppb	127.647 ppb	106.250 %	105.925 %	131.362 ppb	128.443 ppb	129.155 ppb	103.552 %
Concentration per Run 2	121.995 ppb	121.289 ppb	122.782 ppb	113.298 %	114.333 %	122.528 ppb	121.948 ppb	121.581 ppb	108.255 %
Concentration per Run 3	111.421 ppb	110.056 ppb	110.123 ppb	118.134 %	121.617 %	109.333 ppb	111.707 ppb	110.421 ppb	112.240 %
Concentration RSD	7.3 %	8.0 %	7.5 %	5.3 %	6.9 %	9.2 %	7.0 %	7.8 %	4.0 %

Analysis index: 9
Analysis label: Sr 200ppb
Analysis started at: 10/29/2020 7:56:17 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.803 %	109.602 %	0.002 ppb	-0.260 ppb	0.950 ppb	0.814 ppb	-0.418 ppb	0.019 ppb	96.943 %
Concentration per Run 1	101.142 %	106.950 %	0.005 ppb	-1.867 ppb	1.113 ppb	0.708 ppb	0.216 ppb	-43.089 ppb	97.978 %
Concentration per Run 2	97.675 %	110.451 %	0.001 ppb	0.704 ppb	0.331 ppb	0.970 ppb	1.817 ppb	30.517 ppb	96.487 %
Concentration per Run 3	97.592 %	111.406 %	0.000 ppb	0.383 ppb	1.406 ppb	0.763 ppb	-3.289 ppb	12.631 ppb	96.365 %
Concentration RSD	2.1 %	2.1 %	158.7 %	538.2 %	58.5 %	17.0 %	624.2 %	197,884.4 %	0.9 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.467 ppb	0.011 ppb	0.018 ppb	0.070 ppb	36.100 ppb	0.003 ppb	0.028 ppb	0.055 ppb	0.526 ppb
Concentration per Run 1	0.300 ppb	0.031 ppb	0.031 ppb	0.085 ppb	37.479 ppb	0.005 ppb	-0.007 ppb	0.022 ppb	0.512 ppb
Concentration per Run 2	0.703 ppb	-0.021 ppb	0.017 ppb	0.080 ppb	35.498 ppb	0.005 ppb	0.082 ppb	0.090 ppb	0.438 ppb
Concentration per Run 3	0.398 ppb	0.024 ppb	0.007 ppb	0.045 ppb	35.323 ppb	0.000 ppb	0.009 ppb	0.054 ppb	0.629 ppb
Concentration RSD	45.0 %	247.4 %	65.0 %	31.5 %	3.3 %	86.7 %	167.5 %	61.5 %	18.3 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	101.957 %	0.072 ppb	0.198 ppb	194.313 ppb	1.451 ppb	100.667 %	0.008 ppb	0.003 ppb	104.073 %
Concentration per Run 1	97.985 %	0.076 ppb	0.050 ppb	192.649 ppb	1.201 ppb	99.631 %	0.012 ppb	0.000 ppb	101.119 %
Concentration per Run 2	103.776 %	0.061 ppb	0.207 ppb	196.573 ppb	1.448 ppb	101.142 %	0.007 ppb	0.003 ppb	104.548 %
Concentration per Run 3	104.111 %	0.078 ppb	0.337 ppb	193.716 ppb	1.704 ppb	101.228 %	0.006 ppb	0.006 ppb	106.552 %
Concentration RSD	3.4 %	13.4 %	72.5 %	1.0 %	17.3 %	0.9 %	36.4 %	99.6 %	2.6 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.978 ppb	0.052 ppb	0.160 ppb	103.164 %	104.769 %	2.142 ppb	0.636 ppb	0.059 ppb	104.303 %
Concentration per Run 1	1.878 ppb	0.048 ppb	0.184 ppb	101.317 %	101.734 %	1.835 ppb	0.663 ppb	0.058 ppb	102.698 %
Concentration per Run 2	2.068 ppb	0.048 ppb	0.149 ppb	103.495 %	105.388 %	2.214 ppb	0.641 ppb	0.060 ppb	104.539 %
Concentration per Run 3	1.989 ppb	0.059 ppb	0.147 ppb	104.679 %	107.184 %	2.378 ppb	0.603 ppb	0.061 ppb	105.673 %
Concentration RSD	4.8 %	12.5 %	12.9 %	1.7 %	2.7 %	13.0 %	4.8 %	3.1 %	1.4 %

Analysis index:	10	Analysis started at:	10/29/2020 8:01:26 AM
Analysis label:	XICV	User name:	ALPHALAB\Metals-Instrument

Analysis index: 11 Analysis started at: 10/29/2020 8:07:09 AM
Analysis label: ICV User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	107.240 %	118.303 %	52.961 ppb	5,148.584 ppb	5,176.330 ppb	53.092 ppb	5,138.705 ppb	5,113.620 ppb	112.748 %
Concentration per Run 1	116.466 %	116.181 %	48.825 ppb	5,104.950 ppb	5,161.279 ppb	51.420 ppb	4,989.414 ppb	4,969.502 ppb	120.677 %
Concentration per Run 2	106.882 %	125.253 %	52.073 ppb	5,006.204 ppb	5,012.523 ppb	52.672 ppb	5,205.463 ppb	5,112.814 ppb	112.304 %
Concentration per Run 3	98.372 %	113.475 %	57.984 ppb	5,334.597 ppb	5,355.189 ppb	55.183 ppb	5,221.237 ppb	5,258.545 ppb	105.262 %
Recovery Percentage 1			105.922 %	102.972 %	103.527 %	106.183 %	102.774 %	102.272 %	
Concentration RSD	8.4 %	5.2 %	8.8 %	3.3 %	3.3 %	3.6 %	2.5 %	2.8 %	6.8 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	49.744 ppb	50.508 ppb	51.366 ppb	50.947 ppb	5,201.132 ppb	51.743 ppb	54.738 ppb	52.495 ppb	53.316 ppb
Concentration per Run 1	48.038 ppb	51.216 ppb	52.049 ppb	51.084 ppb	5,265.514 ppb	52.616 ppb	56.858 ppb	53.424 ppb	53.895 ppb
Concentration per Run 2	49.329 ppb	49.352 ppb	50.281 ppb	50.797 ppb	5,184.222 ppb	51.432 ppb	53.863 ppb	52.411 ppb	53.440 ppb
Concentration per Run 3	51.864 ppb	50.957 ppb	51.767 ppb	50.959 ppb	5,153.659 ppb	51.181 ppb	53.493 ppb	51.651 ppb	52.612 ppb
Recovery Percentage 1	99.487 %	101.016 %	102.731 %	101.893 %	104.023 %	103.486 %	109.476 %	104.991 %	106.631 %
Concentration RSD	3.9 %	2.0 %	1.8 %	0.3 %	1.1 %	1.5 %	3.4 %	1.7 %	1.2 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	111.441 %	52.043 ppb	52.283 ppb	50.882 ppb	50.355 ppb	108.273 %	52.264 ppb	51.566 ppb	113.595 %
Concentration per Run 1	107.172 %	53.264 ppb	51.330 ppb	50.924 ppb	52.052 ppb	107.567 %	53.100 ppb	52.439 ppb	109.980 %
Concentration per Run 2	112.447 %	51.911 ppb	53.988 ppb	51.076 ppb	48.928 ppb	108.588 %	52.110 ppb	51.810 ppb	115.670 %
Concentration per Run 3	114.705 %	50.953 ppb	51.531 ppb	50.645 ppb	50.085 ppb	108.665 %	51.581 ppb	50.450 ppb	115.135 %
Recovery Percentage 1		104.085 %	104.566 %	101.763 %	100.711 %		104.528 %	103.133 %	
Concentration RSD	3.5 %	2.2 %	2.8 %	0.4 %	3.1 %	0.6 %	1.5 %	2.0 %	2.8 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	50.897 ppb	53.898 ppb	51.083 ppb	113.226 %	114.207 %	48.706 ppb	50.790 ppb	51.752 ppb	110.472 %
Concentration per Run 1	52.890 ppb	54.830 ppb	50.853 ppb	110.303 %	111.402 %	50.947 ppb	52.175 ppb	52.642 ppb	108.749 %
Concentration per Run 2	49.741 ppb	53.524 ppb	51.418 ppb	114.881 %	116.760 %	47.531 ppb	49.961 ppb	51.387 ppb	111.417 %
Concentration per Run 3	50.062 ppb	53.339 ppb	50.978 ppb	114.495 %	114.458 %	47.641 ppb	50.235 ppb	51.226 ppb	111.251 %
Recovery Percentage 1	101.795 %	107.796 %	102.166 %			97.412 %	101.580 %	103.504 %	
Concentration RSD	3.4 %	1.5 %	0.6 %	2.2 %	2.4 %	4.0 %	2.4 %	1.5 %	1.4 %

Analysis index: 12 Analysis started at: 10/29/2020 8:12:16 AM
Analysis label: ICB User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	105.327 %	110.345 %	0.001 ppb	-2.945 ppb	0.094 ppb	-0.308 ppb	-2.994 ppb	2.083 ppb	108.657 %
Concentration per Run 1	108.393 %	109.019 %	0.006 ppb	-2.707 ppb	-0.023 ppb	-0.453 ppb	-4.176 ppb	4.327 ppb	110.277 %
Concentration per Run 2	104.772 %	109.019 %	-0.007 ppb	-3.981 ppb	0.341 ppb	-0.193 ppb	-2.431 ppb	-0.585 ppb	108.585 %
Concentration per Run 3	102.816 %	112.998 %	0.005 ppb	-2.148 ppb	-0.037 ppb	-0.278 ppb	-2.374 ppb	2.508 ppb	107.108 %
Recovery Percentage 1			0.288 %	-2.945 %	0.134 %	-3.080 %	-2.994 %	2.083 %	
Concentration RSD	2.7 %	2.1 %	499.4 %	31.9 %	229.0 %	42.9 %	34.2 %	119.2 %	1.5 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.201 ppb	-0.025 ppb	0.006 ppb	0.076 ppb	22.958 ppb	0.002 ppb	0.011 ppb	-0.018 ppb	-0.084 ppb
Concentration per Run 1	0.079 ppb	-0.066 ppb	0.014 ppb	0.084 ppb	17.498 ppb	0.000 ppb	0.012 ppb	-0.004 ppb	-0.155 ppb
Concentration per Run 2	0.242 ppb	-0.004 ppb	-0.018 ppb	0.099 ppb	30.768 ppb	0.005 ppb	0.029 ppb	-0.030 ppb	0.013 ppb
Concentration per Run 3	0.282 ppb	-0.006 ppb	0.022 ppb	0.045 ppb	20.609 ppb	0.000 ppb	-0.009 ppb	-0.019 ppb	-0.108 ppb
Recovery Percentage 1	40.194 %	-0.510 %	0.599 %	7.577 %	45.917 %	0.321 %	0.535 %	-1.766 %	-0.836 %
Concentration RSD	53.4 %	137.2 %	356.6 %	37.0 %	30.2 %	173.2 %	175.4 %	75.6 %	103.7 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	101.382 %	0.131 ppb	0.236 ppb	-0.003 ppb	1.003 ppb	99.908 %	0.005 ppb	0.001 ppb	103.730 %
Concentration per Run 1	98.513 %	0.142 ppb	0.257 ppb	-0.004 ppb	0.660 ppb	99.098 %	0.007 ppb	0.000 ppb	99.978 %
Concentration per Run 2	102.249 %	0.144 ppb	0.212 ppb	-0.002 ppb	1.301 ppb	99.090 %	0.005 ppb	0.003 ppb	104.299 %
Concentration per Run 3	103.382 %	0.106 ppb	0.240 ppb	-0.004 ppb	1.047 ppb	101.535 %	0.003 ppb	0.000 ppb	106.914 %
Recovery Percentage 1		26.114 %	4.729 %	-0.615 %	50.136 %		1.257 %	0.471 %	
Concentration RSD	2.5 %	16.3 %	9.7 %	37.3 %	32.2 %	1.4 %	45.1 %	173.2 %	3.4 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.111 ppb	0.085 ppb	0.013 ppb	102.883 %	104.699 %	1.702 ppb	0.478 ppb	0.045 ppb	103.128 %
Concentration per Run 1	0.967 ppb	0.074 ppb	0.003 ppb	100.261 %	101.268 %	1.463 ppb	0.512 ppb	0.045 ppb	100.939 %
Concentration per Run 2	1.267 ppb	0.089 ppb	0.023 ppb	102.956 %	106.484 %	1.793 ppb	0.484 ppb	0.042 ppb	103.111 %
Concentration per Run 3	1.100 ppb	0.093 ppb	0.012 ppb	105.431 %	106.346 %	1.851 ppb	0.438 ppb	0.047 ppb	105.336 %
Recovery Percentage 1	37.049 %	2.129 %	2.544 %			85.118 %	95.661 %	4.468 %	
Concentration RSD	13.5 %	11.9 %	75.7 %	2.5 %	2.8 %	12.3 %	7.8 %	5.4 %	2.1 %

Analysis index: 13 Analysis started at: 10/29/2020 8:17:25 AM
Analysis label: LLCCV User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	107.943 %	112.255 %	0.281 ppb	108.173 ppb	69.601 ppb	14.098 ppb	106.723 ppb	111.349 ppb	111.599 %
Concentration per Run 1	112.047 %	107.427 %	0.268 ppb	110.859 ppb	72.339 ppb	14.301 ppb	105.887 ppb	80.341 ppb	113.581 %
Concentration per Run 2	107.670 %	113.316 %	0.281 ppb	112.757 ppb	72.578 ppb	14.560 ppb	110.474 ppb	140.523 ppb	112.135 %
Concentration per Run 3	104.113 %	116.022 %	0.294 ppb	100.904 ppb	63.885 ppb	13.433 ppb	103.809 ppb	113.183 ppb	109.082 %
Recovery Percentage 1			56.146 %	108.173 %	99.429 %	140.979 %	106.723 %	111.349 %	
Concentration RSD	3.7 %	3.9 %	4.6 %	5.9 %	7.1 %	4.2 %	3.2 %	27.1 %	2.1 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.668 ppb	6.354 ppb	0.641 ppb	1.388 ppb	65.861 ppb	0.568 ppb	2.306 ppb	1.191 ppb	11.248 ppb
Concentration per Run 1	0.557 ppb	6.769 ppb	0.724 ppb	1.246 ppb	72.061 ppb	0.592 ppb	2.311 ppb	1.144 ppb	11.528 ppb
Concentration per Run 2	0.733 ppb	6.667 ppb	0.638 ppb	1.663 ppb	63.446 ppb	0.569 ppb	2.362 ppb	1.220 ppb	11.251 ppb
Concentration per Run 3	0.713 ppb	5.626 ppb	0.562 ppb	1.253 ppb	62.078 ppb	0.545 ppb	2.245 ppb	1.208 ppb	10.965 ppb
Recovery Percentage 1	133.539 %	127.082 %	128.296 %	138.752 %	131.723 %	113.682 %	115.313 %	119.063 %	112.477 %
Concentration RSD	14.5 %	9.9 %	12.7 %	17.2 %	8.2 %	4.2 %	2.5 %	3.4 %	2.5 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	104.960 %	0.497 ppb	5.377 ppb	0.551 ppb	2.406 ppb	103.758 %	0.429 ppb	0.251 ppb	107.231 %
Concentration per Run 1	100.774 %	0.550 ppb	4.998 ppb	0.555 ppb	2.435 ppb	103.855 %	0.461 ppb	0.281 ppb	104.401 %
Concentration per Run 2	105.551 %	0.551 ppb	5.263 ppb	0.568 ppb	2.837 ppb	102.194 %	0.398 ppb	0.246 ppb	108.073 %
Concentration per Run 3	108.555 %	0.389 ppb	5.870 ppb	0.530 ppb	1.946 ppb	105.225 %	0.429 ppb	0.226 ppb	109.220 %
Recovery Percentage 1		99.388 %	107.542 %	110.172 %	120.294 %		107.307 %	125.420 %	
Concentration RSD	3.7 %	18.8 %	8.3 %	3.4 %	18.5 %	1.5 %	7.3 %	11.1 %	2.3 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	2.961 ppb	1.869 ppb	0.536 ppb	106.130 %	107.405 %	1.424 ppb	0.691 ppb	0.583 ppb	106.769 %
Concentration per Run 1	2.786 ppb	1.928 ppb	0.526 ppb	104.982 %	105.059 %	1.310 ppb	0.671 ppb	0.582 ppb	104.758 %
Concentration per Run 2	3.049 ppb	1.819 ppb	0.575 ppb	104.830 %	105.911 %	1.469 ppb	0.712 ppb	0.600 ppb	105.574 %
Concentration per Run 3	3.048 ppb	1.859 ppb	0.506 ppb	108.578 %	111.246 %	1.493 ppb	0.690 ppb	0.568 ppb	109.975 %
Recovery Percentage 1	98.704 %	46.714 %	107.133 %			71.217 %	138.173 %	116.641 %	
Concentration RSD	5.1 %	3.0 %	6.6 %	2.0 %	3.1 %	7.0 %	2.9 %	2.8 %	2.6 %

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10/29/2020 9:29:56 PM

Analysis index: 14 Analysis started at: 10/29/2020 8:22:34 AM
Analysis label: ICSA User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	112.770 %	123.926 %	0.000 ppb	54,818.951 ppb	19,752.680 ppb	19,639.377 ppb	20,382.170 ppb	60,765.377 ppb	126.897 %
Concentration per Run 1	116.552 %	126.685 %	-0.004 ppb	51,185.621 ppb	18,126.530 ppb	17,538.704 ppb	18,787.102 ppb	55,470.472 ppb	127.480 %
Concentration per Run 2	111.675 %	124.934 %	0.000 ppb	55,331.613 ppb	20,002.016 ppb	20,110.435 ppb	20,527.580 ppb	61,313.988 ppb	126.429 %
Concentration per Run 3	110.084 %	120.160 %	0.003 ppb	57,939.619 ppb	21,129.495 ppb	21,268.994 ppb	21,831.829 ppb	65,511.670 ppb	126.781 %
Recovery Percentage 1				109.638 %	98.763 %	98.197 %	101.911 %	101.276 %	
Concentration RSD	3.0 %	2.7 %	900.0 %	6.2 %	7.7 %	9.7 %	7.5 %	8.3 %	0.4 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	426.439 ppb	0.024 ppb	0.302 ppb	0.626 ppb	49,847.171 ppb	0.516 ppb	0.583 ppb	0.262 ppb	0.906 ppb
Concentration per Run 1	387.407 ppb	-0.013 ppb	0.262 ppb	0.440 ppb	46,403.741 ppb	0.444 ppb	0.343 ppb	0.295 ppb	0.828 ppb
Concentration per Run 2	429.636 ppb	0.039 ppb	0.328 ppb	0.614 ppb	49,924.276 ppb	0.528 ppb	0.444 ppb	0.249 ppb	0.972 ppb
Concentration per Run 3	462.274 ppb	0.046 ppb	0.316 ppb	0.824 ppb	53,213.496 ppb	0.576 ppb	0.963 ppb	0.242 ppb	0.919 ppb
Recovery Percentage 1	106.610 %				99.694 %				
Concentration RSD	8.8 %	135.3 %	11.6 %	30.7 %	6.8 %	12.9 %	57.1 %	11.1 %	8.0 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	111.610 %	0.173 ppb	0.050 ppb	0.528 ppb	415.628 ppb	104.606 %	0.017 ppb	0.077 ppb	113.239 %
Concentration per Run 1	109.943 %	0.131 ppb	-0.061 ppb	0.487 ppb	391.840 ppb	106.275 %	0.017 ppb	0.069 ppb	111.710 %
Concentration per Run 2	115.280 %	0.155 ppb	0.175 ppb	0.530 ppb	406.346 ppb	107.859 %	0.012 ppb	0.064 ppb	117.135 %
Concentration per Run 3	109.607 %	0.233 ppb	0.034 ppb	0.567 ppb	448.699 ppb	99.685 %	0.021 ppb	0.100 ppb	110.871 %
Recovery Percentage 1					103.907 %				
Concentration RSD	2.9 %	31.0 %	239.8 %	7.6 %	7.1 %	4.1 %	25.3 %	25.6 %	3.0 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.431 ppb	0.092 ppb	0.163 ppb	105.826 %	104.328 %	1.064 ppb	0.157 ppb	0.111 ppb	103.822 %
Concentration per Run 1	0.315 ppb	0.056 ppb	0.151 ppb	107.485 %	105.132 %	0.397 ppb	0.135 ppb	0.099 ppb	105.547 %
Concentration per Run 2	0.441 ppb	0.105 ppb	0.155 ppb	108.443 %	106.983 %	1.976 ppb	0.157 ppb	0.114 ppb	106.511 %
Concentration per Run 3	0.539 ppb	0.114 ppb	0.184 ppb	101.550 %	100.868 %	0.817 ppb	0.180 ppb	0.120 ppb	99.408 %
Recovery Percentage 1									
Concentration RSD	26.0 %	34.1 %	11.2 %	3.5 %	3.0 %	76.9 %	14.1 %	9.7 %	3.7 %

Analysis index: 15 Analysis started at: 10/29/2020 8:27:44 AM
Analysis label: Rinse User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.519 %	105.836 %	0.002 ppb	26.263 ppb	3.614 ppb	1.331 ppb	8.365 ppb	49.254 ppb	105.869 %
Concentration per Run 1	108.073 %	108.064 %	0.000 ppb	24.267 ppb	3.693 ppb	1.686 ppb	6.530 ppb	42.679 ppb	109.503 %
Concentration per Run 2	102.655 %	107.109 %	0.000 ppb	26.313 ppb	4.075 ppb	1.087 ppb	15.146 ppb	48.761 ppb	105.854 %
Concentration per Run 3	96.831 %	102.334 %	0.006 ppb	28.209 ppb	3.072 ppb	1.220 ppb	3.417 ppb	56.322 ppb	102.250 %
Concentration RSD	5.5 %	2.9 %	207.8 %	7.5 %	14.0 %	23.6 %	72.6 %	13.9 %	3.4 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	1.379 ppb	-0.024 ppb	0.036 ppb	0.136 ppb	78.266 ppb	0.005 ppb	0.179 ppb	0.177 ppb	1.220 ppb
Concentration per Run 1	1.058 ppb	-0.050 ppb	0.035 ppb	0.154 ppb	79.913 ppb	0.010 ppb	0.180 ppb	0.158 ppb	1.117 ppb
Concentration per Run 2	1.502 ppb	-0.004 ppb	0.029 ppb	0.064 ppb	86.032 ppb	0.005 ppb	0.196 ppb	0.204 ppb	1.264 ppb
Concentration per Run 3	1.577 ppb	-0.018 ppb	0.046 ppb	0.191 ppb	68.852 ppb	0.000 ppb	0.160 ppb	0.169 ppb	1.278 ppb
Concentration RSD	20.3 %	98.8 %	23.5 %	47.9 %	11.1 %	100.4 %	9.9 %	13.8 %	7.3 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	101.681 %	0.033 ppb	0.011 ppb	0.168 ppb	4.788 ppb	102.312 %	0.006 ppb	0.001 ppb	107.351 %
Concentration per Run 1	100.525 %	0.027 ppb	-0.021 ppb	0.166 ppb	4.023 ppb	100.670 %	0.006 ppb	0.000 ppb	104.878 %
Concentration per Run 2	102.216 %	0.008 ppb	-0.057 ppb	0.169 ppb	4.646 ppb	103.889 %	0.006 ppb	0.003 ppb	110.340 %
Concentration per Run 3	102.303 %	0.062 ppb	0.110 ppb	0.169 ppb	5.694 ppb	102.378 %	0.005 ppb	0.000 ppb	106.833 %
Concentration RSD	1.0 %	84.7 %	824.6 %	1.3 %	17.6 %	1.6 %	11.1 %	173.2 %	2.6 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.371 ppb	0.016 ppb	0.047 ppb	104.913 %	106.769 %	0.230 ppb	0.087 ppb	0.020 ppb	104.937 %
Concentration per Run 1	0.309 ppb	0.011 ppb	0.032 ppb	103.224 %	104.234 %	0.165 ppb	0.079 ppb	0.017 ppb	103.958 %
Concentration per Run 2	0.352 ppb	0.016 ppb	0.030 ppb	107.533 %	109.245 %	0.244 ppb	0.092 ppb	0.021 ppb	106.104 %
Concentration per Run 3	0.453 ppb	0.021 ppb	0.080 ppb	103.981 %	106.828 %	0.281 ppb	0.089 ppb	0.022 ppb	104.747 %
Concentration RSD	19.9 %	31.7 %	59.0 %	2.2 %	2.3 %	25.7 %	7.8 %	11.2 %	1.0 %

Analysis index: 16 Analysis started at: 10/29/2020 8:32:48 AM
Analysis label: CCV User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	111.475 %	121.221 %	61.456 ppb	5,878.604 ppb	5,941.287 ppb	61.394 ppb	5,955.407 ppb	5,945.249 ppb	122.305 %
Concentration per Run 1	113.307 %	111.565 %	60.104 ppb	6,208.404 ppb	6,197.385 ppb	63.266 ppb	6,204.388 ppb	6,172.735 ppb	122.582 %
Concentration per Run 2	110.812 %	119.523 %	61.669 ppb	6,006.393 ppb	6,072.040 ppb	62.983 ppb	6,101.739 ppb	6,033.909 ppb	121.512 %
Concentration per Run 3	110.306 %	132.574 %	62.595 ppb	5,421.016 ppb	5,554.435 ppb	57.932 ppb	5,560.094 ppb	5,629.103 ppb	122.821 %
Recovery Percentage 1			102.427 %	97.977 %	99.021 %	102.323 %	99.257 %	99.087 %	
Concentration RSD	1.4 %	8.7 %	2.0 %	7.0 %	5.7 %	4.9 %	5.8 %	4.8 %	0.6 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	59.440 ppb	59.923 ppb	58.710 ppb	59.104 ppb	5,940.230 ppb	58.313 ppb	58.731 ppb	58.845 ppb	59.484 ppb
Concentration per Run 1	59.758 ppb	63.649 ppb	61.223 ppb	60.046 ppb	6,127.766 ppb	61.687 ppb	61.452 ppb	61.771 ppb	62.790 ppb
Concentration per Run 2	61.725 ppb	59.825 ppb	59.249 ppb	59.918 ppb	5,967.507 ppb	57.584 ppb	59.283 ppb	59.237 ppb	57.790 ppb
Concentration per Run 3	56.838 ppb	56.296 ppb	55.657 ppb	57.348 ppb	5,725.417 ppb	55.667 ppb	55.458 ppb	55.527 ppb	57.874 ppb
Recovery Percentage 1	99.067 %	99.872 %	97.850 %	98.507 %	99.004 %	97.188 %	97.885 %	98.075 %	99.141 %
Concentration RSD	4.1 %	6.1 %	4.8 %	2.6 %	3.4 %	5.3 %	5.2 %	5.3 %	4.8 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	114.800 %	58.664 ppb	58.744 ppb	59.580 ppb	59.481 ppb	111.783 %	58.605 ppb	59.191 ppb	117.222 %
Concentration per Run 1	110.692 %	61.532 ppb	60.357 ppb	60.318 ppb	59.981 ppb	109.322 %	60.713 ppb	61.761 ppb	111.496 %
Concentration per Run 2	115.602 %	57.331 ppb	60.028 ppb	59.905 ppb	61.034 ppb	112.617 %	57.327 ppb	58.065 ppb	119.391 %
Concentration per Run 3	118.107 %	57.131 ppb	55.847 ppb	58.516 ppb	57.428 ppb	113.410 %	57.776 ppb	57.748 ppb	120.781 %
Recovery Percentage 1		97.774 %	97.907 %	99.300 %	99.135 %		97.675 %	98.652 %	
Concentration RSD	3.3 %	4.2 %	4.3 %	1.6 %	3.1 %	1.9 %	3.1 %	3.8 %	4.3 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	59.022 ppb	58.905 ppb	58.131 ppb	116.330 %	119.259 %	57.885 ppb	57.814 ppb	58.947 ppb	113.733 %
Concentration per Run 1	61.391 ppb	61.463 ppb	60.452 ppb	112.858 %	114.562 %	61.923 ppb	60.562 ppb	62.100 ppb	109.726 %
Concentration per Run 2	58.135 ppb	57.877 ppb	57.927 ppb	117.445 %	121.658 %	56.024 ppb	56.908 ppb	57.941 ppb	114.851 %
Concentration per Run 3	57.541 ppb	57.376 ppb	56.016 ppb	118.687 %	121.558 %	55.709 ppb	55.971 ppb	56.800 ppb	116.621 %
Recovery Percentage 1	98.371 %	98.176 %	96.886 %			96.476 %	96.356 %	98.245 %	
Concentration RSD	3.5 %	3.8 %	3.8 %	2.6 %	3.4 %	6.0 %	4.2 %	4.7 %	3.1 %

Alpha ICPMSQ Full

10/29/2020 9:29:56 PM

Analysis index: 17 Analysis started at: 10/29/2020 8:37:57 AM
Analysis label: CCB User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.479 %	106.844 %	0.000 ppb	-4.145 ppb	0.117 ppb	-0.160 ppb	3.078 ppb	2.074 ppb	98.816 %
Concentration per Run 1	102.170 %	109.814 %	0.003 ppb	-3.033 ppb	-0.031 ppb	-0.594 ppb	2.295 ppb	-0.613 ppb	101.181 %
Concentration per Run 2	100.863 %	111.247 %	0.001 ppb	-5.588 ppb	-0.394 ppb	-0.082 ppb	3.014 ppb	2.520 ppb	100.667 %
Concentration per Run 3	98.403 %	99.469 %	-0.003 ppb	-3.814 ppb	0.776 ppb	0.196 ppb	3.925 ppb	4.314 ppb	94.599 %
Recovery Percentage 1			0.072 %	-4.145 %	0.167 %	-1.600 %	3.078 %	2.074 %	
Concentration RSD	1.9 %	6.0 %	755.0 %	31.6 %	511.3 %	250.3 %	26.5 %	120.3 %	3.7 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.293 ppb	-0.052 ppb	0.006 ppb	-0.002 ppb	31.872 ppb	0.000 ppb	-0.009 ppb	0.001 ppb	0.016 ppb
Concentration per Run 1	0.283 ppb	-0.037 ppb	-0.008 ppb	0.010 ppb	29.339 ppb	0.000 ppb	-0.009 ppb	-0.031 ppb	-0.052 ppb
Concentration per Run 2	0.325 ppb	-0.067 ppb	0.007 ppb	-0.008 ppb	27.806 ppb	0.000 ppb	-0.027 ppb	-0.020 ppb	0.018 ppb
Concentration per Run 3	0.270 ppb	-0.051 ppb	0.019 ppb	-0.007 ppb	38.472 ppb	0.000 ppb	0.010 ppb	0.054 ppb	0.080 ppb
Recovery Percentage 1	58.589 %	-1.031 %	0.557 %	-0.153 %	63.745 %	0.000 %	-0.430 %	0.106 %	0.155 %
Concentration RSD	9.9 %	30.0 %	241.3 %	650.8 %	18.1 %	N/A	215.5 %	4,373.1 %	427.0 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	105.302 %	0.065 ppb	0.169 ppb	-0.005 ppb	1.132 ppb	104.142 %	0.005 ppb	0.000 ppb	108.931 %
Concentration per Run 1	104.665 %	0.042 ppb	0.105 ppb	-0.003 ppb	0.854 ppb	105.749 %	0.008 ppb	0.000 ppb	108.026 %
Concentration per Run 2	105.759 %	0.050 ppb	0.168 ppb	-0.008 ppb	1.030 ppb	104.134 %	0.005 ppb	0.000 ppb	110.125 %
Concentration per Run 3	105.481 %	0.103 ppb	0.234 ppb	-0.003 ppb	1.511 ppb	102.542 %	0.004 ppb	0.000 ppb	108.641 %
Recovery Percentage 1		13.008 %	3.372 %	-0.949 %	56.601 %		1.349 %	0.000 %	
Concentration RSD	0.5 %	51.0 %	38.3 %	60.3 %	30.0 %	1.5 %	38.6 %	N/A	1.0 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.764 ppb	0.014 ppb	0.012 ppb	106.969 %	108.452 %	1.122 ppb	0.478 ppb	0.034 ppb	107.039 %
Concentration per Run 1	0.636 ppb	0.008 ppb	0.003 ppb	106.750 %	107.564 %	0.910 ppb	0.502 ppb	0.034 ppb	109.122 %
Concentration per Run 2	0.799 ppb	0.008 ppb	0.002 ppb	108.165 %	110.341 %	1.171 ppb	0.481 ppb	0.030 ppb	107.960 %
Concentration per Run 3	0.857 ppb	0.025 ppb	0.031 ppb	105.990 %	107.452 %	1.287 ppb	0.451 ppb	0.037 ppb	104.035 %
Recovery Percentage 1	25.471 %	0.338 %	2.407 %			56.121 %	95.592 %	3.370 %	
Concentration RSD	15.0 %	70.6 %	136.5 %	1.0 %	1.5 %	17.2 %	5.3 %	9.2 %	2.5 %

Analysis index: 18
Analysis label: WG1427577-1 CT-6020SL
Analysis started at: 10/29/2020 8:43:06 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.495 %	113.899 %	0.004 ppb	0.193 ppb	1.264 ppb	0.438 ppb	-1.494 ppb	3.421 ppb	89.583 %
Concentration per Run 1	96.145 %	109.019 %	0.002 ppb	1.434 ppb	0.697 ppb	0.776 ppb	-4.779 ppb	3.923 ppb	91.073 %
Concentration per Run 2	90.770 %	123.024 %	0.001 ppb	-0.887 ppb	0.603 ppb	0.099 ppb	0.295 ppb	-2.183 ppb	88.148 %
Concentration per Run 3	90.569 %	109.655 %	0.010 ppb	0.032 ppb	2.493 ppb	0.439 ppb	0.002 ppb	8.521 ppb	89.529 %
Concentration RSD	3.4 %	6.9 %	123.3 %	606.6 %	84.3 %	77.4 %	190.7 %	157.0 %	1.6 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.131 ppb	-0.039 ppb	0.055 ppb	0.104 ppb	9.495 ppb	0.032 ppb	0.108 ppb	-0.020 ppb	-0.123 ppb
Concentration per Run 1	0.120 ppb	-0.083 ppb	0.047 ppb	0.078 ppb	8.486 ppb	0.037 ppb	0.169 ppb	-0.044 ppb	-0.083 ppb
Concentration per Run 2	0.178 ppb	-0.025 ppb	0.063 ppb	0.157 ppb	9.294 ppb	0.023 ppb	0.094 ppb	-0.032 ppb	-0.015 ppb
Concentration per Run 3	0.095 ppb	-0.008 ppb	0.056 ppb	0.077 ppb	10.703 ppb	0.037 ppb	0.061 ppb	0.015 ppb	-0.272 ppb
Concentration RSD	32.4 %	101.5 %	14.7 %	44.2 %	11.8 %	25.8 %	51.3 %	152.2 %	107.9 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	107.032 %	0.014 ppb	0.058 ppb	0.004 ppb	0.425 ppb	103.377 %	0.003 ppb	0.002 ppb	109.497 %
Concentration per Run 1	106.634 %	0.014 ppb	0.037 ppb	0.008 ppb	0.349 ppb	103.140 %	0.003 ppb	0.003 ppb	106.171 %
Concentration per Run 2	106.473 %	0.006 ppb	0.134 ppb	0.001 ppb	0.483 ppb	104.136 %	0.002 ppb	0.003 ppb	112.420 %
Concentration per Run 3	107.989 %	0.022 ppb	0.004 ppb	0.003 ppb	0.443 ppb	102.856 %	0.005 ppb	0.000 ppb	109.899 %
Concentration RSD	0.8 %	58.0 %	115.5 %	84.2 %	16.2 %	0.7 %	52.6 %	86.7 %	2.9 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.579 ppb	0.005 ppb	0.050 ppb	105.592 %	107.475 %	0.365 ppb	0.166 ppb	0.008 ppb	106.029 %
Concentration per Run 1	0.764 ppb	-0.006 ppb	0.070 ppb	105.920 %	105.583 %	0.266 ppb	0.150 ppb	0.010 ppb	106.021 %
Concentration per Run 2	0.390 ppb	0.014 ppb	0.021 ppb	106.305 %	110.070 %	0.392 ppb	0.173 ppb	0.007 ppb	106.257 %
Concentration per Run 3	0.585 ppb	0.007 ppb	0.059 ppb	104.549 %	106.771 %	0.437 ppb	0.175 ppb	0.008 ppb	105.810 %
Concentration RSD	32.3 %	195.7 %	51.3 %	0.9 %	2.2 %	24.4 %	8.5 %	14.9 %	0.2 %

Analysis index: 19
Analysis label: WG1427577-2D5 CT-6020SL
Analysis started at: 10/29/2020 8:48:13 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	112.289 %	119.045 %	8.803 ppb	2,075.291 ppb	2,125.243 ppb	379.938 ppb	2,091.034 ppb	1,953.924 ppb	119.666 %
Concentration per Run 1	114.762 %	118.727 %	8.530 ppb	2,088.713 ppb	2,093.388 ppb	384.581 ppb	2,072.387 ppb	1,811.276 ppb	118.792 %
Concentration per Run 2	111.888 %	116.817 %	8.875 ppb	2,137.168 ppb	2,220.422 ppb	385.923 ppb	2,137.573 ppb	2,147.088 ppb	120.094 %
Concentration per Run 3	110.216 %	121.592 %	9.004 ppb	1,999.993 ppb	2,061.920 ppb	369.309 ppb	2,063.141 ppb	1,903.408 ppb	120.111 %
Concentration RSD	2.0 %	2.0 %	2.8 %	3.4 %	3.9 %	2.4 %	1.9 %	8.9 %	0.6 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	169.733 ppb	88.852 ppb	35.599 ppb	88.862 ppb	182.934 ppb	87.320 ppb	87.332 ppb	44.027 ppb	94.504 ppb
Concentration per Run 1	169.753 ppb	88.968 ppb	35.645 ppb	87.881 ppb	184.967 ppb	88.992 ppb	87.253 ppb	45.149 ppb	95.165 ppb
Concentration per Run 2	175.553 ppb	89.585 ppb	36.305 ppb	90.207 ppb	189.288 ppb	87.350 ppb	89.218 ppb	43.869 ppb	95.574 ppb
Concentration per Run 3	163.892 ppb	88.002 ppb	34.846 ppb	88.499 ppb	174.546 ppb	85.617 ppb	85.526 ppb	43.064 ppb	92.772 ppb
Concentration RSD	3.4 %	0.9 %	2.1 %	1.4 %	4.1 %	1.9 %	2.1 %	2.4 %	1.6 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	116.759 %	24.774 ppb	24.102 ppb	204.661 ppb	200.146 ppb	110.470 %	9.238 ppb	9.820 ppb	118.688 %
Concentration per Run 1	117.151 %	25.551 ppb	23.563 ppb	209.843 ppb	201.880 ppb	109.010 %	9.531 ppb	10.101 ppb	117.943 %
Concentration per Run 2	116.608 %	24.106 ppb	23.334 ppb	203.291 ppb	203.992 ppb	111.139 %	9.200 ppb	9.809 ppb	118.692 %
Concentration per Run 3	116.517 %	24.665 ppb	25.408 ppb	200.847 ppb	194.567 ppb	111.260 %	8.983 ppb	9.550 ppb	119.428 %
Concentration RSD	0.3 %	2.9 %	4.7 %	2.3 %	2.5 %	1.1 %	3.0 %	2.8 %	0.6 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	190.719 ppb	86.539 ppb	365.390 ppb	115.494 %	118.005 %	0.324 ppb	24.629 ppb	111.083 ppb	113.429 %
Concentration per Run 1	195.173 ppb	87.913 ppb	374.917 ppb	115.178 %	118.510 %	0.258 ppb	25.288 ppb	114.408 ppb	111.519 %
Concentration per Run 2	191.810 ppb	85.867 ppb	360.114 ppb	115.020 %	117.637 %	0.352 ppb	24.352 ppb	110.137 ppb	113.738 %
Concentration per Run 3	185.174 ppb	85.838 ppb	361.140 ppb	116.284 %	117.867 %	0.361 ppb	24.246 ppb	108.704 ppb	115.030 %
Concentration RSD	2.7 %	1.4 %	2.3 %	0.6 %	0.4 %	17.6 %	2.3 %	2.7 %	1.6 %

Alpha ICPMSQ Full

10/29/2020 9:29:56 PM

Analysis index: 20
Analysis label: WG1427186-2D10 6020TS
Analysis started at: 10/29/2020 8:53:20 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	110.093 %	121.486 %	145.873 ppb	1,128.499 ppb	1,560.117 ppb	4,176.075 ppb	1,275.380 ppb	3,733.857 ppb	123.102 %
Concentration per Run 1	116.708 %	122.706 %	138.648 ppb	1,128.930 ppb	1,581.620 ppb	4,152.814 ppb	1,296.110 ppb	3,768.901 ppb	127.087 %
Concentration per Run 2	107.821 %	126.207 %	148.853 ppb	1,081.012 ppb	1,538.364 ppb	4,037.066 ppb	1,259.180 ppb	3,653.312 ppb	120.016 %
Concentration per Run 3	105.751 %	115.544 %	150.117 ppb	1,175.554 ppb	1,560.368 ppb	4,338.346 ppb	1,270.850 ppb	3,779.358 ppb	122.202 %
Concentration RSD	5.3 %	4.5 %	4.3 %	4.2 %	1.4 %	3.6 %	1.5 %	1.9 %	2.9 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	178.206 ppb	46.419 ppb	120.364 ppb	213.629 ppb	9,157.000 ppb	104.304 ppb	44.739 ppb	42.498 ppb	123.232 ppb
Concentration per Run 1	179.166 ppb	45.823 ppb	121.952 ppb	216.577 ppb	9,408.469 ppb	107.769 ppb	46.026 ppb	44.752 ppb	127.545 ppb
Concentration per Run 2	173.266 ppb	44.413 ppb	116.511 ppb	206.390 ppb	8,838.240 ppb	99.584 ppb	43.958 ppb	40.350 ppb	118.742 ppb
Concentration per Run 3	182.185 ppb	49.021 ppb	122.629 ppb	217.919 ppb	9,224.292 ppb	105.560 ppb	44.233 ppb	42.391 ppb	123.410 ppb
Concentration RSD	2.5 %	5.1 %	2.8 %	3.0 %	3.2 %	4.1 %	2.5 %	5.2 %	3.6 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	119.980 %	125.959 ppb	136.720 ppb	69.052 ppb	76.439 ppb	114.542 %	26.704 ppb	116.177 ppb	121.840 %
Concentration per Run 1	116.268 %	131.304 ppb	140.058 ppb	69.611 ppb	76.584 ppb	114.914 %	26.562 ppb	115.681 ppb	121.592 %
Concentration per Run 2	123.467 %	120.937 ppb	134.439 ppb	68.433 ppb	75.925 ppb	114.794 %	26.836 ppb	116.043 ppb	122.710 %
Concentration per Run 3	120.203 %	125.636 ppb	135.662 ppb	69.111 ppb	76.809 ppb	113.919 %	26.712 ppb	116.807 ppb	121.217 %
Concentration RSD	3.0 %	4.1 %	2.2 %	0.9 %	0.6 %	0.5 %	0.5 %	0.5 %	0.6 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.609 ppb	160.243 ppb	189.440 ppb	117.690 %	119.172 %	0.257 ppb	90.851 ppb	103.265 ppb	115.215 %
Concentration per Run 1	58.290 ppb	159.681 ppb	189.336 ppb	117.576 %	119.091 %	0.202 ppb	89.540 ppb	102.861 ppb	115.521 %
Concentration per Run 2	58.603 ppb	159.872 ppb	187.631 ppb	118.271 %	120.322 %	0.232 ppb	90.205 ppb	103.396 ppb	114.950 %
Concentration per Run 3	58.935 ppb	161.176 ppb	191.352 ppb	117.223 %	118.104 %	0.338 ppb	92.807 ppb	103.540 ppb	115.174 %
Concentration RSD	0.6 %	0.5 %	1.0 %	0.5 %	0.9 %	27.7 %	1.9 %	0.3 %	0.2 %

Analysis index: 21
Analysis label: WG1427186-3D20 6020TS
Analysis started at: 10/29/2020 8:58:25 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	113.649 %	121.221 %	6.143 ppb	1,032.316 ppb	1,343.172 ppb	10,665.898 ppb	1,506.408 ppb	1,812.665 ppb	138.327 %
Concentration per Run 1	115.279 %	124.298 %	5.935 ppb	1,025.275 ppb	1,323.885 ppb	10,502.788 ppb	1,479.962 ppb	1,818.220 ppb	138.126 %
Concentration per Run 2	113.915 %	120.319 %	6.299 ppb	1,042.547 ppb	1,346.569 ppb	10,782.905 ppb	1,540.672 ppb	1,854.000 ppb	139.174 %
Concentration per Run 3	111.752 %	119.045 %	6.195 ppb	1,029.125 ppb	1,359.062 ppb	10,712.001 ppb	1,498.590 ppb	1,765.776 ppb	137.682 %
Concentration RSD	1.6 %	2.3 %	3.1 %	0.9 %	1.3 %	1.4 %	2.1 %	2.4 %	0.6 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	148.024 ppb	108.869 ppb	66.457 ppb	70.410 ppb	49,525.405 ppb	49.902 ppb	51.708 ppb	34.363 ppb	84.529 ppb
Concentration per Run 1	146.988 ppb	107.743 ppb	66.222 ppb	70.525 ppb	49,764.935 ppb	50.694 ppb	52.478 ppb	35.457 ppb	84.928 ppb
Concentration per Run 2	151.594 ppb	111.259 ppb	67.049 ppb	70.233 ppb	50,081.092 ppb	49.686 ppb	51.502 ppb	34.367 ppb	85.672 ppb
Concentration per Run 3	145.490 ppb	107.605 ppb	66.101 ppb	70.472 ppb	48,730.188 ppb	49.326 ppb	51.142 ppb	33.265 ppb	82.987 ppb
Concentration RSD	2.1 %	1.9 %	0.8 %	0.2 %	1.4 %	1.4 %	1.3 %	3.2 %	1.6 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	121.574 %	26.981 ppb	12.906 ppb	102.950 ppb	94.289 ppb	114.227 %	32.707 ppb	5.652 ppb	122.728 %
Concentration per Run 1	121.702 %	27.364 ppb	13.283 ppb	103.227 ppb	94.630 ppb	115.265 %	32.715 ppb	5.562 ppb	122.831 %
Concentration per Run 2	120.459 %	27.057 ppb	12.900 ppb	103.399 ppb	94.550 ppb	114.648 %	32.495 ppb	5.722 ppb	122.869 %
Concentration per Run 3	122.562 %	26.522 ppb	12.536 ppb	102.224 ppb	93.688 ppb	112.767 %	32.913 ppb	5.672 ppb	122.485 %
Concentration RSD	0.9 %	1.6 %	2.9 %	0.6 %	0.6 %	1.1 %	0.6 %	1.5 %	0.2 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	102.039 ppb	48.750 ppb	222.492 ppb	115.281 %	116.703 %	0.340 ppb	12.241 ppb	75.220 ppb	114.250 %
Concentration per Run 1	101.651 ppb	48.526 ppb	220.757 ppb	117.758 %	118.173 %	0.281 ppb	12.122 ppb	75.210 ppb	115.254 %
Concentration per Run 2	101.847 ppb	48.819 ppb	223.117 ppb	114.305 %	116.443 %	0.352 ppb	12.273 ppb	75.156 ppb	113.604 %
Concentration per Run 3	102.618 ppb	48.906 ppb	223.602 ppb	113.781 %	115.492 %	0.386 ppb	12.328 ppb	75.295 ppb	113.894 %
Concentration RSD	0.5 %	0.4 %	0.7 %	1.9 %	1.2 %	15.7 %	0.9 %	0.1 %	0.8 %

Analysis index: 22
Analysis label: WG1427186-5D20 6020TS
Analysis started at: 10/29/2020 9:03:30 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	106.232 %	117.613 %	53.640 ppb	4,995.960 ppb	5,346.664 ppb	10,220.474 ppb	5,640.790 ppb	5,936.477 ppb	123.877 %
Concentration per Run 1	115.439 %	115.703 %	49.829 ppb	5,200.731 ppb	5,586.157 ppb	10,692.893 ppb	5,852.019 ppb	6,087.871 ppb	130.503 %
Concentration per Run 2	103.812 %	119.205 %	55.114 ppb	4,783.637 ppb	5,192.876 ppb	9,717.710 ppb	5,467.481 ppb	5,755.754 ppb	120.941 %
Concentration per Run 3	99.446 %	117.931 %	55.977 ppb	5,003.513 ppb	5,260.960 ppb	10,250.820 ppb	5,602.870 ppb	5,965.807 ppb	120.186 %
Concentration RSD	7.8 %	1.5 %	6.2 %	4.2 %	3.9 %	4.8 %	3.5 %	2.8 %	4.6 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	148.658 ppb	108.323 ppb	91.785 ppb	75.122 ppb	51,869.084 ppb	49.830 ppb	51.952 ppb	56.763 ppb	78.196 ppb
Concentration per Run 1	155.432 ppb	110.977 ppb	95.670 ppb	78.802 ppb	54,370.335 ppb	52.060 ppb	55.238 ppb	59.805 ppb	82.371 ppb
Concentration per Run 2	139.748 ppb	102.088 ppb	87.437 ppb	72.223 ppb	49,106.177 ppb	47.795 ppb	49.270 ppb	54.377 ppb	74.544 ppb
Concentration per Run 3	150.794 ppb	111.905 ppb	92.248 ppb	74.342 ppb	52,130.739 ppb	49.634 ppb	51.347 ppb	56.108 ppb	77.674 ppb
Concentration RSD	5.4 %	5.0 %	4.5 %	4.5 %	5.1 %	4.3 %	5.8 %	4.9 %	5.0 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	118.089 %	65.837 ppb	49.108 ppb	51.630 ppb	48.917 ppb	112.513 %	3.074 ppb	47.468 ppb	122.015 %
Concentration per Run 1	117.859 %	67.033 ppb	51.391 ppb	53.418 ppb	51.224 ppb	112.299 %	3.186 ppb	49.607 ppb	120.589 %
Concentration per Run 2	118.622 %	64.153 ppb	46.777 ppb	49.279 ppb	46.510 ppb	114.621 %	2.949 ppb	44.184 ppb	126.693 %
Concentration per Run 3	117.786 %	66.326 ppb	49.157 ppb	52.193 ppb	49.018 ppb	110.619 %	3.087 ppb	48.613 ppb	118.761 %
Concentration RSD	0.4 %	2.3 %	4.7 %	4.1 %	4.8 %	1.8 %	3.9 %	6.1 %	3.4 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	49.219 ppb	51.335 ppb	67.108 ppb	114.402 %	116.317 %	39.773 ppb	47.220 ppb	68.325 ppb	112.838 %
Concentration per Run 1	51.948 ppb	53.461 ppb	68.986 ppb	112.741 %	114.412 %	42.440 ppb	49.256 ppb	70.955 ppb	111.522 %
Concentration per Run 2	46.116 ppb	47.384 ppb	62.647 ppb	117.582 %	119.758 %	37.090 ppb	43.889 ppb	64.287 ppb	115.537 %
Concentration per Run 3	49.593 ppb	53.159 ppb	69.691 ppb	112.881 %	114.782 %	39.790 ppb	48.513 ppb	69.732 ppb	111.455 %
Concentration RSD	6.0 %	6.7 %	5.8 %	2.4 %	2.6 %	6.7 %	6.2 %	5.2 %	2.1 %

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Analysis index: 23
Analysis label: WG1427186-4D20 6020TS
Analysis started at: 10/29/2020 9:08:35 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	108.036 %	116.499 %	0.790 ppb	3.075 ppb	378.409 ppb	11,052.029 ppb	566.887 ppb	984.507 ppb	124.301 %
Concentration per Run 1	113.591 %	115.385 %	0.756 ppb	2.104 ppb	385.002 ppb	11,083.626 ppb	549.591 ppb	972.993 ppb	129.073 %
Concentration per Run 2	108.311 %	121.433 %	0.831 ppb	3.593 ppb	372.423 ppb	10,755.985 ppb	557.838 ppb	963.201 ppb	124.545 %
Concentration per Run 3	102.205 %	112.679 %	0.782 ppb	3.528 ppb	377.802 ppb	11,316.476 ppb	593.233 ppb	1,017.326 ppb	119.284 %
Concentration RSD	5.3 %	3.8 %	4.8 %	27.4 %	1.7 %	2.5 %	4.1 %	2.9 %	3.9 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	96.216 ppb	70.541 ppb	56.870 ppb	26.256 ppb	53,764.203 ppb	1.388 ppb	4.633 ppb	11.780 ppb	37.130 ppb
Concentration per Run 1	95.263 ppb	71.168 ppb	56.933 ppb	26.761 ppb	53,654.887 ppb	1.361 ppb	4.359 ppb	11.911 ppb	37.313 ppb
Concentration per Run 2	94.282 ppb	69.607 ppb	56.066 ppb	25.478 ppb	53,106.874 ppb	1.318 ppb	4.617 ppb	11.842 ppb	36.045 ppb
Concentration per Run 3	99.102 ppb	70.847 ppb	57.610 ppb	26.530 ppb	54,530.849 ppb	1.485 ppb	4.924 ppb	11.586 ppb	38.033 ppb
Concentration RSD	2.6 %	1.2 %	1.4 %	2.6 %	1.3 %	6.2 %	6.1 %	1.5 %	2.7 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	114.057 %	19.758 ppb	2.422 ppb	3.289 ppb	2.239 ppb	109.840 %	3.358 ppb	0.374 ppb	118.941 %
Concentration per Run 1	115.378 %	20.166 ppb	2.376 ppb	3.285 ppb	2.148 ppb	109.781 %	3.388 ppb	0.397 ppb	116.916 %
Concentration per Run 2	116.083 %	19.569 ppb	2.389 ppb	3.268 ppb	2.109 ppb	110.904 %	3.304 ppb	0.364 ppb	121.571 %
Concentration per Run 3	110.709 %	19.538 ppb	2.501 ppb	3.314 ppb	2.460 ppb	108.833 %	3.382 ppb	0.360 ppb	118.336 %
Concentration RSD	2.6 %	1.8 %	2.8 %	0.7 %	8.6 %	0.9 %	1.4 %	5.5 %	2.0 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	3.075 ppb	1.896 ppb	20.519 ppb	111.883 %	113.547 %	1.308 ppb	0.587 ppb	30.910 ppb	109.892 %
Concentration per Run 1	3.027 ppb	1.860 ppb	21.044 ppb	111.990 %	112.637 %	1.141 ppb	0.650 ppb	31.669 ppb	108.294 %
Concentration per Run 2	3.031 ppb	1.882 ppb	20.217 ppb	112.374 %	114.409 %	1.297 ppb	0.565 ppb	30.593 ppb	110.434 %
Concentration per Run 3	3.168 ppb	1.947 ppb	20.297 ppb	111.284 %	113.595 %	1.486 ppb	0.546 ppb	30.467 ppb	110.948 %
Concentration RSD	2.6 %	2.4 %	2.2 %	0.5 %	0.8 %	13.2 %	9.4 %	2.1 %	1.3 %

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Analysis index: 24
Analysis label: L2046055-01D20 6020TS
Analysis started at: 10/29/2020 9:13:41 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.555 %	114.854 %	0.658 ppb	3.231 ppb	363.223 ppb	10,353.889 ppb	540.483 ppb	943.793 ppb	116.162 %
Concentration per Run 1	101.364 %	117.931 %	0.588 ppb	3.330 ppb	352.018 ppb	10,014.024 ppb	544.862 ppb	934.948 ppb	114.555 %
Concentration per Run 2	100.709 %	110.929 %	0.711 ppb	2.555 ppb	360.701 ppb	10,635.326 ppb	547.233 ppb	930.637 ppb	114.269 %
Concentration per Run 3	105.593 %	115.703 %	0.674 ppb	3.807 ppb	376.949 ppb	10,412.317 ppb	529.353 ppb	965.794 ppb	119.663 %
Concentration RSD	2.6 %	3.1 %	9.6 %	19.6 %	3.5 %	3.0 %	1.8 %	2.0 %	2.6 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	102.131 ppb	62.109 ppb	44.800 ppb	26.680 ppb	47,974.466 ppb	1.406 ppb	3.908 ppb	10.078 ppb	32.168 ppb
Concentration per Run 1	99.866 ppb	60.356 ppb	44.082 ppb	26.205 ppb	47,278.988 ppb	1.493 ppb	4.371 ppb	10.049 ppb	31.953 ppb
Concentration per Run 2	102.619 ppb	64.166 ppb	45.097 ppb	27.103 ppb	48,407.693 ppb	1.316 ppb	3.465 ppb	10.067 ppb	31.868 ppb
Concentration per Run 3	103.908 ppb	61.804 ppb	45.222 ppb	26.732 ppb	48,236.717 ppb	1.408 ppb	3.888 ppb	10.119 ppb	32.684 ppb
Concentration RSD	2.0 %	3.1 %	1.4 %	1.7 %	1.3 %	6.3 %	11.6 %	0.4 %	1.4 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	114.612 %	19.029 ppb	2.032 ppb	2.888 ppb	1.172 ppb	109.514 %	1.982 ppb	0.238 ppb	118.483 %
Concentration per Run 1	114.862 %	19.522 ppb	2.171 ppb	2.808 ppb	1.116 ppb	111.967 %	1.936 ppb	0.221 ppb	121.135 %
Concentration per Run 2	115.838 %	18.470 ppb	1.926 ppb	2.866 ppb	1.301 ppb	108.343 %	2.098 ppb	0.250 ppb	117.902 %
Concentration per Run 3	113.137 %	19.095 ppb	1.999 ppb	2.989 ppb	1.100 ppb	108.230 %	1.913 ppb	0.242 ppb	116.414 %
Concentration RSD	1.2 %	2.8 %	6.2 %	3.2 %	9.5 %	1.9 %	5.1 %	6.4 %	2.0 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.472 ppb	1.228 ppb	19.313 ppb	111.808 %	112.843 %	0.691 ppb	0.242 ppb	21.142 ppb	111.615 %
Concentration per Run 1	1.325 ppb	1.180 ppb	18.579 ppb	114.632 %	115.214 %	0.515 ppb	0.228 ppb	20.688 ppb	114.867 %
Concentration per Run 2	1.488 ppb	1.175 ppb	20.175 ppb	110.994 %	112.396 %	0.831 ppb	0.245 ppb	21.428 ppb	110.831 %
Concentration per Run 3	1.602 ppb	1.329 ppb	19.184 ppb	109.798 %	110.920 %	0.727 ppb	0.252 ppb	21.310 ppb	109.148 %
Concentration RSD	9.5 %	7.1 %	4.2 %	2.3 %	1.9 %	23.4 %	5.0 %	1.9 %	2.6 %

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Analysis index: 25
Analysis label: L2046055-02D20 6020TS
Analysis started at: 10/29/2020 9:18:47 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	103.658 %	111.353 %	0.982 ppb	1.049 ppb	322.275 ppb	12,714.170 ppb	648.578 ppb	713.649 ppb	118.016 %
Concentration per Run 1	109.774 %	114.112 %	0.914 ppb	0.368 ppb	319.205 ppb	12,471.837 ppb	629.109 ppb	681.708 ppb	123.269 %
Concentration per Run 2	102.647 %	110.610 %	0.996 ppb	0.728 ppb	309.829 ppb	12,659.003 ppb	645.499 ppb	710.222 ppb	116.964 %
Concentration per Run 3	98.553 %	109.337 %	1.036 ppb	2.051 ppb	337.792 ppb	13,011.670 ppb	671.126 ppb	749.018 ppb	113.814 %
Concentration RSD	5.5 %	2.2 %	6.3 %	84.5 %	4.4 %	2.2 %	3.3 %	4.7 %	4.1 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	96.338 ppb	50.721 ppb	38.142 ppb	26.867 ppb	60,080.945 ppb	2.583 ppb	6.865 ppb	11.715 ppb	33.950 ppb
Concentration per Run 1	95.107 ppb	49.633 ppb	37.083 ppb	26.580 ppb	59,994.940 ppb	2.550 ppb	7.009 ppb	11.562 ppb	33.616 ppb
Concentration per Run 2	97.020 ppb	51.831 ppb	38.391 ppb	26.249 ppb	59,308.487 ppb	2.686 ppb	6.277 ppb	11.610 ppb	34.296 ppb
Concentration per Run 3	96.887 ppb	50.698 ppb	38.950 ppb	27.773 ppb	60,939.409 ppb	2.514 ppb	7.310 ppb	11.972 ppb	33.938 ppb
Concentration RSD	1.1 %	2.2 %	2.5 %	3.0 %	1.4 %	3.5 %	7.7 %	1.9 %	1.0 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	112.628 %	24.844 ppb	2.010 ppb	3.844 ppb	1.017 ppb	107.053 %	0.290 ppb	0.094 ppb	115.736 %
Concentration per Run 1	112.641 %	25.352 ppb	2.040 ppb	3.871 ppb	0.936 ppb	107.435 %	0.293 ppb	0.087 ppb	115.592 %
Concentration per Run 2	113.261 %	24.552 ppb	2.211 ppb	3.825 ppb	1.024 ppb	107.666 %	0.297 ppb	0.103 ppb	115.799 %
Concentration per Run 3	111.983 %	24.628 ppb	1.779 ppb	3.835 ppb	1.090 ppb	106.057 %	0.281 ppb	0.093 ppb	115.816 %
Concentration RSD	0.6 %	1.8 %	10.8 %	0.6 %	7.6 %	0.8 %	2.9 %	8.2 %	0.1 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.071 ppb	0.905 ppb	16.860 ppb	108.307 %	109.698 %	0.245 ppb	0.169 ppb	14.400 ppb	107.821 %
Concentration per Run 1	0.853 ppb	0.893 ppb	17.502 ppb	108.690 %	109.290 %	0.175 ppb	0.156 ppb	14.511 ppb	108.512 %
Concentration per Run 2	1.107 ppb	0.882 ppb	17.087 ppb	108.944 %	110.326 %	0.246 ppb	0.178 ppb	14.225 ppb	108.231 %
Concentration per Run 3	1.252 ppb	0.941 ppb	15.992 ppb	107.286 %	109.477 %	0.313 ppb	0.174 ppb	14.462 ppb	106.720 %
Concentration RSD	18.9 %	3.5 %	4.6 %	0.8 %	0.5 %	28.2 %	6.6 %	1.1 %	0.9 %

Analysis index: 26
Analysis label: WG1427186-6D100 6020TS
Analysis started at: 10/29/2020 9:23:54 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	104.693 %	115.014 %	0.125 ppb	-4.279 ppb	75.268 ppb	2,088.261 ppb	107.771 ppb	194.375 ppb	111.907 %
Concentration per Run 1	107.502 %	114.112 %	0.132 ppb	-3.954 ppb	80.276 ppb	2,102.068 ppb	121.363 ppb	194.740 ppb	113.090 %
Concentration per Run 2	103.681 %	115.862 %	0.112 ppb	-4.384 ppb	79.327 ppb	2,113.548 ppb	103.345 ppb	210.025 ppb	111.689 %
Concentration per Run 3	102.895 %	115.067 %	0.130 ppb	-4.501 ppb	66.200 ppb	2,049.167 ppb	98.606 ppb	178.361 ppb	110.941 %
Concentration RSD	2.4 %	0.8 %	8.8 %	6.7 %	10.5 %	1.6 %	11.1 %	8.1 %	1.0 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	21.301 ppb	12.264 ppb	8.977 ppb	5.296 ppb	9,766.766 ppb	0.282 ppb	0.774 ppb	2.022 ppb	6.363 ppb
Concentration per Run 1	21.310 ppb	12.148 ppb	8.851 ppb	4.933 ppb	9,773.888 ppb	0.252 ppb	0.899 ppb	2.199 ppb	6.097 ppb
Concentration per Run 2	22.034 ppb	12.263 ppb	9.193 ppb	5.601 ppb	9,882.153 ppb	0.275 ppb	0.765 ppb	2.233 ppb	6.557 ppb
Concentration per Run 3	20.560 ppb	12.381 ppb	8.886 ppb	5.355 ppb	9,644.257 ppb	0.319 ppb	0.657 ppb	1.634 ppb	6.434 ppb
Concentration RSD	3.5 %	0.9 %	2.1 %	6.4 %	1.2 %	12.2 %	15.7 %	16.7 %	3.7 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	112.258 %	4.139 ppb	0.367 ppb	0.580 ppb	0.426 ppb	107.368 %	0.409 ppb	0.036 ppb	116.101 %
Concentration per Run 1	113.071 %	4.087 ppb	0.331 ppb	0.565 ppb	0.355 ppb	109.467 %	0.418 ppb	0.053 ppb	119.171 %
Concentration per Run 2	109.590 %	4.170 ppb	0.503 ppb	0.603 ppb	0.425 ppb	104.505 %	0.385 ppb	0.024 ppb	113.887 %
Concentration per Run 3	114.113 %	4.158 ppb	0.268 ppb	0.572 ppb	0.497 ppb	108.133 %	0.424 ppb	0.033 ppb	115.245 %
Concentration RSD	2.1 %	1.1 %	33.1 %	3.5 %	16.8 %	2.4 %	5.1 %	40.4 %	2.4 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.461 ppb	0.321 ppb	3.932 ppb	110.521 %	112.680 %	0.147 ppb	0.097 ppb	4.198 ppb	109.192 %
Concentration per Run 1	0.287 ppb	0.291 ppb	3.807 ppb	111.871 %	113.792 %	0.087 ppb	0.084 ppb	4.086 ppb	111.088 %
Concentration per Run 2	0.590 ppb	0.297 ppb	3.834 ppb	108.109 %	110.748 %	0.169 ppb	0.099 ppb	4.245 ppb	106.839 %
Concentration per Run 3	0.505 ppb	0.373 ppb	4.155 ppb	111.582 %	113.501 %	0.186 ppb	0.106 ppb	4.262 ppb	109.649 %
Concentration RSD	33.9 %	14.2 %	4.9 %	1.9 %	1.5 %	36.2 %	12.1 %	2.3 %	2.0 %

Analysis index: 27
Analysis label: WG1427186-1D10 6020TS
Analysis started at: 10/29/2020 9:29:00 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.462 %	102.918 %	-0.003 ppb	-5.116 ppb	-0.135 ppb	0.067 ppb	-2.139 ppb	2.534 ppb	98.456 %
Concentration per Run 1	99.629 %	106.631 %	0.000 ppb	-5.624 ppb	-0.394 ppb	0.735 ppb	-2.098 ppb	4.019 ppb	103.329 %
Concentration per Run 2	100.702 %	103.130 %	-0.005 ppb	-5.302 ppb	-0.394 ppb	-0.378 ppb	-2.312 ppb	0.941 ppb	103.896 %
Concentration per Run 3	89.056 %	98.992 %	-0.003 ppb	-4.423 ppb	0.384 ppb	-0.156 ppb	-2.008 ppb	2.640 ppb	88.143 %
Concentration RSD	6.7 %	3.7 %	85.7 %	12.1 %	333.1 %	881.7 %	7.3 %	60.8 %	9.1 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.333 ppb	0.030 ppb	0.011 ppb	0.010 ppb	45.579 ppb	0.000 ppb	0.021 ppb	-0.020 ppb	0.005 ppb
Concentration per Run 1	0.376 ppb	-0.006 ppb	0.002 ppb	0.061 ppb	41.747 ppb	0.000 ppb	0.027 ppb	-0.008 ppb	0.045 ppb
Concentration per Run 2	0.333 ppb	0.071 ppb	0.023 ppb	-0.025 ppb	46.805 ppb	0.000 ppb	-0.009 ppb	-0.044 ppb	0.075 ppb
Concentration per Run 3	0.290 ppb	0.026 ppb	0.007 ppb	-0.007 ppb	48.186 ppb	0.000 ppb	0.045 ppb	-0.008 ppb	-0.106 ppb
Concentration RSD	12.9 %	128.2 %	101.6 %	463.8 %	7.4 %	N/A	131.5 %	104.2 %	2,001.1 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	107.285 %	0.031 ppb	0.048 ppb	0.001 ppb	0.257 ppb	101.666 %	0.001 ppb	0.000 ppb	107.961 %
Concentration per Run 1	106.823 %	0.023 ppb	0.166 ppb	0.003 ppb	0.234 ppb	102.574 %	0.001 ppb	0.000 ppb	109.938 %
Concentration per Run 2	107.085 %	0.006 ppb	0.005 ppb	0.002 ppb	0.172 ppb	101.601 %	0.003 ppb	0.000 ppb	106.684 %
Concentration per Run 3	107.946 %	0.065 ppb	-0.028 ppb	-0.004 ppb	0.365 ppb	100.822 %	0.000 ppb	0.000 ppb	107.262 %
Concentration RSD	0.5 %	98.1 %	216.8 %	691.5 %	38.4 %	0.9 %	160.5 %	N/A	1.6 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.336 ppb	0.093 ppb	0.013 ppb	102.607 %	104.817 %	0.058 ppb	0.070 ppb	0.017 ppb	101.916 %
Concentration per Run 1	0.241 ppb	0.079 ppb	-0.007 ppb	103.298 %	104.763 %	0.018 ppb	0.061 ppb	0.014 ppb	103.015 %
Concentration per Run 2	0.328 ppb	0.099 ppb	0.042 ppb	102.058 %	105.102 %	0.055 ppb	0.074 ppb	0.018 ppb	100.692 %
Concentration per Run 3	0.438 ppb	0.100 ppb	0.003 ppb	102.464 %	104.587 %	0.101 ppb	0.074 ppb	0.020 ppb	102.041 %
Concentration RSD	29.4 %	12.3 %	204.2 %	0.6 %	0.2 %	71.6 %	10.9 %	18.6 %	1.1 %

Analysis index: 28 Analysis started at: 10/29/2020 9:34:04 AM
Analysis label: CCV User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	103.619 %	114.536 %	58.165 ppb	5,804.972 ppb	5,859.700 ppb	63.523 ppb	6,042.104 ppb	5,866.119 ppb	114.493 %
Concentration per Run 1	108.021 %	120.478 %	56.033 ppb	5,470.781 ppb	5,474.588 ppb	62.232 ppb	5,691.714 ppb	5,434.147 ppb	117.074 %
Concentration per Run 2	102.410 %	107.268 %	59.010 ppb	6,187.223 ppb	6,209.701 ppb	64.441 ppb	6,341.205 ppb	6,136.657 ppb	113.003 %
Concentration per Run 3	100.426 %	115.862 %	59.452 ppb	5,756.912 ppb	5,894.812 ppb	63.896 ppb	6,093.394 ppb	6,027.552 ppb	113.400 %
Recovery Percentage 1			96.942 %	96.750 %	97.662 %	105.872 %	100.702 %	97.769 %	
Concentration RSD	3.8 %	5.9 %	3.2 %	6.2 %	6.3 %	1.8 %	5.4 %	6.4 %	2.0 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	59.184 ppb	58.891 ppb	57.385 ppb	57.715 ppb	5,743.046 ppb	56.433 ppb	57.586 ppb	56.191 ppb	57.943 ppb
Concentration per Run 1	55.736 ppb	55.769 ppb	54.412 ppb	54.827 ppb	5,554.624 ppb	54.541 ppb	57.147 ppb	54.466 ppb	56.139 ppb
Concentration per Run 2	62.242 ppb	62.087 ppb	60.099 ppb	58.342 ppb	5,893.387 ppb	58.305 ppb	57.548 ppb	57.739 ppb	58.752 ppb
Concentration per Run 3	59.575 ppb	58.818 ppb	57.643 ppb	59.974 ppb	5,781.127 ppb	56.452 ppb	58.062 ppb	56.369 ppb	58.938 ppb
Recovery Percentage 1	98.641 %	98.152 %	95.641 %	96.191 %	95.717 %	94.055 %	95.976 %	93.652 %	96.572 %
Concentration RSD	5.5 %	5.4 %	5.0 %	4.6 %	3.0 %	3.3 %	0.8 %	2.9 %	2.7 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	112.260 %	56.731 ppb	58.985 ppb	59.628 ppb	58.130 ppb	106.874 %	57.189 ppb	57.681 ppb	115.940 %
Concentration per Run 1	114.759 %	54.823 ppb	57.877 ppb	57.283 ppb	55.250 ppb	110.490 %	55.520 ppb	56.002 ppb	119.019 %
Concentration per Run 2	110.684 %	58.433 ppb	60.531 ppb	61.109 ppb	59.333 ppb	106.261 %	57.336 ppb	58.489 ppb	115.272 %
Concentration per Run 3	111.337 %	56.935 ppb	58.548 ppb	60.493 ppb	59.808 ppb	103.870 %	58.712 ppb	58.553 ppb	113.528 %
Recovery Percentage 1		94.551 %	98.309 %	99.381 %	96.883 %		95.316 %	96.136 %	
Concentration RSD	1.9 %	3.2 %	2.3 %	3.4 %	4.3 %	3.1 %	2.8 %	2.5 %	2.4 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.089 ppb	58.594 ppb	59.018 ppb	113.780 %	116.028 %	55.991 ppb	57.028 ppb	58.173 ppb	109.870 %
Concentration per Run 1	56.297 ppb	56.422 ppb	57.393 ppb	116.723 %	119.067 %	54.731 ppb	54.830 ppb	56.483 ppb	113.646 %
Concentration per Run 2	58.046 ppb	59.373 ppb	59.382 ppb	112.815 %	115.503 %	56.779 ppb	58.118 ppb	59.038 ppb	107.977 %
Concentration per Run 3	59.924 ppb	59.986 ppb	60.280 ppb	111.801 %	113.513 %	56.464 ppb	58.135 ppb	58.997 ppb	107.988 %
Recovery Percentage 1	96.815 %	97.656 %	98.364 %			93.319 %	95.046 %	96.954 %	
Concentration RSD	3.1 %	3.3 %	2.5 %	2.3 %	2.4 %	2.0 %	3.3 %	2.5 %	3.0 %

Analysis index: 29 Analysis started at: 10/29/2020 9:39:13 AM
Analysis label: CCB User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.527 %	99.841 %	-0.001 ppb	-3.220 ppb	0.118 ppb	0.328 ppb	-0.328 ppb	1.533 ppb	99.169 %
Concentration per Run 1	102.533 %	95.013 %	-0.005 ppb	-3.018 ppb	-0.394 ppb	-0.195 ppb	0.466 ppb	-2.249 ppb	103.686 %
Concentration per Run 2	96.852 %	102.653 %	0.004 ppb	-3.706 ppb	-0.394 ppb	0.107 ppb	1.072 ppb	0.972 ppb	100.040 %
Concentration per Run 3	90.196 %	101.857 %	-0.001 ppb	-2.936 ppb	1.142 ppb	1.073 ppb	-2.522 ppb	5.875 ppb	93.781 %
Recovery Percentage 1			-0.144 %	-3.220 %	0.168 %	3.284 %	-0.328 %	1.533 %	
Concentration RSD	6.4 %	4.2 %	606.2 %	13.1 %	751.9 %	201.8 %	586.4 %	266.9 %	5.1 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.361 ppb	-0.029 ppb	0.012 ppb	0.035 ppb	29.038 ppb	0.000 ppb	0.060 ppb	0.002 ppb	0.048 ppb
Concentration per Run 1	0.379 ppb	0.016 ppb	0.009 ppb	0.067 ppb	30.502 ppb	0.000 ppb	0.049 ppb	0.007 ppb	0.116 ppb
Concentration per Run 2	0.292 ppb	-0.066 ppb	0.013 ppb	0.046 ppb	30.358 ppb	0.000 ppb	0.065 ppb	0.006 ppb	-0.059 ppb
Concentration per Run 3	0.412 ppb	-0.035 ppb	0.013 ppb	-0.007 ppb	26.255 ppb	0.000 ppb	0.065 ppb	-0.007 ppb	0.088 ppb
Recovery Percentage 1	72.221 %	-0.571 %	1.190 %	3.517 %	58.077 %	0.000 %	2.994 %	0.224 %	0.483 %
Concentration RSD	17.1 %	145.4 %	18.3 %	107.9 %	8.3 %	N/A	15.2 %	341.7 %	194.4 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	104.057 %	0.099 ppb	0.140 ppb	0.002 ppb	0.910 ppb	99.244 %	0.008 ppb	0.002 ppb	105.951 %
Concentration per Run 1	102.927 %	0.134 ppb	0.044 ppb	0.002 ppb	0.746 ppb	97.948 %	0.012 ppb	0.003 ppb	104.448 %
Concentration per Run 2	104.388 %	0.087 ppb	0.238 ppb	0.004 ppb	0.834 ppb	100.769 %	0.007 ppb	0.003 ppb	106.216 %
Concentration per Run 3	104.855 %	0.078 ppb	0.139 ppb	-0.001 ppb	1.150 ppb	99.013 %	0.006 ppb	0.000 ppb	107.188 %
Recovery Percentage 1		19.887 %	2.802 %	0.327 %	45.496 %		2.053 %	0.935 %	
Concentration RSD	1.0 %	30.4 %	69.3 %	161.8 %	23.4 %	1.4 %	36.0 %	86.6 %	1.3 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.889 ppb	0.065 ppb	0.029 ppb	101.300 %	104.168 %	1.061 ppb	0.493 ppb	0.038 ppb	102.525 %
Concentration per Run 1	0.769 ppb	0.070 ppb	0.033 ppb	99.277 %	101.768 %	0.928 ppb	0.504 ppb	0.037 ppb	102.666 %
Concentration per Run 2	0.931 ppb	0.058 ppb	0.022 ppb	101.599 %	105.477 %	1.061 ppb	0.499 ppb	0.038 ppb	102.536 %
Concentration per Run 3	0.968 ppb	0.067 ppb	0.032 ppb	103.023 %	105.259 %	1.193 ppb	0.475 ppb	0.038 ppb	102.374 %
Recovery Percentage 1	29.649 %	1.618 %	5.820 %			53.034 %	98.523 %	3.784 %	
Concentration RSD	11.9 %	9.2 %	19.8 %	1.9 %	2.0 %	12.5 %	3.1 %	1.2 %	0.1 %

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10/29/2020 9:29:56 PM

Analysis index: 30
Analysis label: WG1427727-1 6020SL
Analysis started at: 10/29/2020 9:44:22 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.434 %	111.671 %	-0.003 ppb	64.298 ppb	4.155 ppb	6.297 ppb	5.240 ppb	20.540 ppb	98.466 %
Concentration per Run 1	98.713 %	115.067 %	-0.005 ppb	60.116 ppb	4.157 ppb	7.395 ppb	3.571 ppb	21.696 ppb	102.902 %
Concentration per Run 2	91.094 %	111.406 %	0.002 ppb	64.165 ppb	2.106 ppb	4.852 ppb	7.723 ppb	8.098 ppb	93.249 %
Concentration per Run 3	93.494 %	108.541 %	-0.005 ppb	68.613 ppb	6.201 ppb	6.645 ppb	4.425 ppb	31.826 ppb	99.247 %
Concentration RSD	4.1 %	2.9 %	148.5 %	6.6 %	49.3 %	20.7 %	41.8 %	58.0 %	4.9 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.295 ppb	0.028 ppb	0.610 ppb	0.232 ppb	23.425 ppb	0.009 ppb	0.300 ppb	0.124 ppb	5.214 ppb
Concentration per Run 1	0.208 ppb	0.067 ppb	0.599 ppb	0.230 ppb	22.864 ppb	0.005 ppb	0.381 ppb	0.087 ppb	5.328 ppb
Concentration per Run 2	0.299 ppb	0.007 ppb	0.609 ppb	0.212 ppb	21.611 ppb	0.009 ppb	0.220 ppb	0.086 ppb	5.068 ppb
Concentration per Run 3	0.377 ppb	0.010 ppb	0.620 ppb	0.253 ppb	25.800 ppb	0.014 ppb	0.299 ppb	0.198 ppb	5.246 ppb
Concentration RSD	28.8 %	121.7 %	1.7 %	8.8 %	9.2 %	51.1 %	26.9 %	52.1 %	2.5 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	105.975 %	0.029 ppb	0.038 ppb	0.042 ppb	0.339 ppb	104.572 %	0.002 ppb	0.002 ppb	111.399 %
Concentration per Run 1	105.682 %	0.059 ppb	0.070 ppb	0.042 ppb	0.229 ppb	105.372 %	0.000 ppb	0.003 ppb	113.145 %
Concentration per Run 2	107.388 %	0.031 ppb	0.036 ppb	0.039 ppb	0.386 ppb	104.478 %	0.001 ppb	0.000 ppb	111.008 %
Concentration per Run 3	104.855 %	-0.002 ppb	0.007 ppb	0.045 ppb	0.402 ppb	103.867 %	0.006 ppb	0.003 ppb	110.044 %
Concentration RSD	1.2 %	104.3 %	83.8 %	7.2 %	28.2 %	0.7 %	168.2 %	86.6 %	1.4 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.459 ppb	0.573 ppb	0.167 ppb	106.697 %	109.504 %	0.404 ppb	0.199 ppb	0.071 ppb	106.475 %
Concentration per Run 1	0.402 ppb	0.525 ppb	0.177 ppb	107.178 %	110.035 %	0.322 ppb	0.193 ppb	0.065 ppb	108.230 %
Concentration per Run 2	0.443 ppb	0.599 ppb	0.152 ppb	106.070 %	108.873 %	0.392 ppb	0.195 ppb	0.079 ppb	106.759 %
Concentration per Run 3	0.531 ppb	0.593 ppb	0.171 ppb	106.842 %	109.604 %	0.497 ppb	0.209 ppb	0.070 ppb	104.437 %
Concentration RSD	14.4 %	7.2 %	7.9 %	0.5 %	0.5 %	21.8 %	4.3 %	9.4 %	1.8 %

Analysis index: 31
Analysis label: WG1427727-2D5 6020SL
Analysis started at: 10/29/2020 9:49:26 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	103.369 %	114.907 %	10.201 ppb	2,106.817 ppb	2,176.534 ppb	436.347 ppb	2,140.845 ppb	1,874.304 ppb	109.648 %
Concentration per Run 1	108.252 %	116.658 %	9.454 ppb	2,099.145 ppb	2,189.970 ppb	429.213 ppb	2,169.993 ppb	1,974.190 ppb	112.123 %
Concentration per Run 2	103.384 %	115.226 %	10.222 ppb	2,114.537 ppb	2,164.382 ppb	447.930 ppb	2,122.346 ppb	1,753.472 ppb	109.795 %
Concentration per Run 3	98.472 %	112.838 %	10.927 ppb	2,106.768 ppb	2,175.250 ppb	431.898 ppb	2,130.196 ppb	1,895.249 ppb	107.028 %
Concentration RSD	4.7 %	1.7 %	7.2 %	0.4 %	0.6 %	2.3 %	1.2 %	6.0 %	2.3 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	181.647 ppb	104.208 ppb	41.501 ppb	103.440 ppb	202.385 ppb	101.005 ppb	99.227 ppb	51.735 ppb	107.519 ppb
Concentration per Run 1	180.290 ppb	105.861 ppb	41.940 ppb	104.447 ppb	200.636 ppb	103.376 ppb	100.923 ppb	53.410 ppb	110.466 ppb
Concentration per Run 2	181.867 ppb	104.908 ppb	41.007 ppb	104.449 ppb	214.419 ppb	100.295 ppb	99.829 ppb	50.142 ppb	107.595 ppb
Concentration per Run 3	182.785 ppb	101.854 ppb	41.557 ppb	101.423 ppb	192.100 ppb	99.346 ppb	96.930 ppb	51.653 ppb	104.498 ppb
Concentration RSD	0.7 %	2.0 %	1.1 %	1.7 %	5.6 %	2.1 %	2.1 %	3.2 %	2.8 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	113.587 %	25.479 ppb	26.171 ppb	210.851 ppb	206.310 ppb	108.048 %	10.556 ppb	11.217 ppb	116.331 %
Concentration per Run 1	111.851 %	25.940 ppb	25.837 ppb	213.162 ppb	211.723 ppb	109.415 %	10.723 ppb	11.259 ppb	116.851 %
Concentration per Run 2	112.355 %	25.555 ppb	26.536 ppb	213.478 ppb	206.424 ppb	106.367 %	10.570 ppb	11.400 ppb	114.916 %
Concentration per Run 3	116.554 %	24.942 ppb	26.139 ppb	205.912 ppb	200.782 ppb	108.363 %	10.375 ppb	10.992 ppb	117.225 %
Concentration RSD	2.3 %	2.0 %	1.3 %	2.0 %	2.7 %	1.4 %	1.7 %	1.8 %	1.1 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	197.568 ppb	104.749 ppb	423.314 ppb	112.963 %	115.566 %	0.242 ppb	25.567 ppb	114.528 ppb	110.579 %
Concentration per Run 1	200.764 ppb	105.132 ppb	427.000 ppb	112.311 %	114.207 %	0.171 ppb	26.081 ppb	116.198 ppb	109.599 %
Concentration per Run 2	199.539 ppb	105.766 ppb	424.446 ppb	112.516 %	116.007 %	0.220 ppb	25.372 ppb	114.004 ppb	111.030 %
Concentration per Run 3	192.400 ppb	103.351 ppb	418.497 ppb	114.062 %	116.484 %	0.334 ppb	25.247 ppb	113.383 ppb	111.107 %
Concentration RSD	2.3 %	1.2 %	1.0 %	0.8 %	1.0 %	34.8 %	1.8 %	1.3 %	0.8 %

Analysis index: 32
Analysis label: WG1427727-3D10 6020SL
Analysis started at: 10/29/2020 9:54:31 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.020 %	115.650 %	5.404 ppb	13,908.671 ppb	12,421.318 ppb	215.861 ppb	2,485.267 ppb	30,103.108 ppb	111.320 %
Concentration per Run 1	107.774 %	112.520 %	5.099 ppb	13,942.236 ppb	12,472.207 ppb	215.106 ppb	2,482.619 ppb	30,076.936 ppb	117.204 %
Concentration per Run 2	102.184 %	117.931 %	5.258 ppb	13,796.116 ppb	12,294.606 ppb	213.686 ppb	2,526.618 ppb	30,220.923 ppb	112.232 %
Concentration per Run 3	93.104 %	116.499 %	5.853 ppb	13,987.663 ppb	12,497.141 ppb	218.790 ppb	2,446.563 ppb	30,011.465 ppb	104.524 %
Concentration RSD	7.3 %	2.4 %	7.4 %	0.7 %	0.9 %	1.2 %	1.6 %	0.4 %	5.7 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	131.908 ppb	51.395 ppb	19.799 ppb	668.341 ppb	7,342.183 ppb	49.487 ppb	47.895 ppb	24.323 ppb	52.277 ppb
Concentration per Run 1	128.433 ppb	51.343 ppb	20.182 ppb	676.106 ppb	7,432.965 ppb	50.434 ppb	48.230 ppb	24.406 ppb	52.355 ppb
Concentration per Run 2	136.442 ppb	51.199 ppb	19.603 ppb	666.353 ppb	7,369.064 ppb	49.309 ppb	48.667 ppb	25.050 ppb	52.147 ppb
Concentration per Run 3	130.849 ppb	51.642 ppb	19.612 ppb	662.563 ppb	7,224.520 ppb	48.718 ppb	46.787 ppb	23.512 ppb	52.328 ppb
Concentration RSD	3.1 %	0.4 %	1.7 %	1.0 %	1.5 %	1.8 %	2.1 %	3.2 %	0.2 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	115.898 %	12.778 ppb	12.222 ppb	310.906 ppb	103.414 ppb	107.751 %	5.132 ppb	5.412 ppb	118.522 %
Concentration per Run 1	112.748 %	13.064 ppb	12.752 ppb	310.217 ppb	101.370 ppb	107.531 %	5.167 ppb	5.528 ppb	117.733 %
Concentration per Run 2	116.698 %	12.734 ppb	11.914 ppb	310.876 ppb	102.945 ppb	108.539 %	5.076 ppb	5.314 ppb	118.504 %
Concentration per Run 3	118.249 %	12.537 ppb	12.000 ppb	311.625 ppb	105.928 ppb	107.185 %	5.154 ppb	5.395 ppb	119.329 %
Concentration RSD	2.4 %	2.1 %	3.8 %	0.2 %	2.2 %	0.7 %	1.0 %	2.0 %	0.7 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	102.816 ppb	57.594 ppb	212.315 ppb	116.359 %	118.798 %	0.114 ppb	12.290 ppb	56.339 ppb	110.635 %
Concentration per Run 1	101.113 ppb	56.841 ppb	211.324 ppb	115.600 %	117.763 %	0.062 ppb	12.029 ppb	55.509 ppb	110.493 %
Concentration per Run 2	103.739 ppb	58.037 ppb	212.978 ppb	116.240 %	119.007 %	0.124 ppb	12.286 ppb	56.002 ppb	111.445 %
Concentration per Run 3	103.597 ppb	57.904 ppb	212.644 ppb	117.236 %	119.623 %	0.157 ppb	12.554 ppb	57.508 ppb	109.968 %
Concentration RSD	1.4 %	1.1 %	0.4 %	0.7 %	0.8 %	42.3 %	2.1 %	1.8 %	0.7 %

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Analysis index: 33
Analysis label: WG1427727-5D10 6020SL
Analysis started at: 10/29/2020 9:59:36 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	107.890 %	121.804 %	49.189 ppb	17,698.248 ppb	16,123.044 ppb	54.959 ppb	6,292.843 ppb	34,280.035 ppb	120.473 %
Concentration per Run 1	109.199 %	119.045 %	47.613 ppb	17,862.541 ppb	16,055.540 ppb	53.027 ppb	6,283.641 ppb	34,252.640 ppb	119.591 %
Concentration per Run 2	106.481 %	125.889 %	49.637 ppb	17,381.032 ppb	15,841.091 ppb	54.501 ppb	6,289.972 ppb	33,977.332 ppb	120.488 %
Concentration per Run 3	107.990 %	120.478 %	50.317 ppb	17,851.173 ppb	16,472.502 ppb	57.347 ppb	6,304.916 ppb	34,610.133 ppb	121.340 %
Concentration RSD	1.3 %	3.0 %	2.9 %	1.6 %	2.0 %	4.0 %	0.2 %	0.9 %	0.7 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	91.143 ppb	47.775 ppb	46.363 ppb	671.918 ppb	12,180.677 ppb	46.793 ppb	47.000 ppb	44.954 ppb	47.656 ppb
Concentration per Run 1	90.682 ppb	46.483 ppb	45.339 ppb	667.120 ppb	12,110.587 ppb	45.605 ppb	46.553 ppb	44.878 ppb	47.624 ppb
Concentration per Run 2	88.262 ppb	46.915 ppb	46.416 ppb	667.203 ppb	12,190.935 ppb	47.219 ppb	46.610 ppb	45.440 ppb	47.413 ppb
Concentration per Run 3	94.485 ppb	49.927 ppb	47.334 ppb	681.431 ppb	12,240.508 ppb	47.555 ppb	47.836 ppb	44.543 ppb	47.931 ppb
Concentration RSD	3.4 %	3.9 %	2.2 %	1.2 %	0.5 %	2.2 %	1.5 %	1.0 %	0.5 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	118.587 %	47.106 ppb	47.706 ppb	262.900 ppb	50.493 ppb	109.354 %	1.194 ppb	46.943 ppb	120.621 %
Concentration per Run 1	119.939 %	46.697 ppb	46.705 ppb	257.559 ppb	49.212 ppb	110.357 %	1.191 ppb	46.941 ppb	120.339 %
Concentration per Run 2	118.286 %	47.290 ppb	48.104 ppb	263.679 ppb	50.630 ppb	108.035 %	1.193 ppb	47.449 ppb	119.842 %
Concentration per Run 3	117.536 %	47.331 ppb	48.308 ppb	267.463 ppb	51.636 ppb	109.671 %	1.199 ppb	46.438 ppb	121.683 %
Concentration RSD	1.0 %	0.8 %	1.8 %	1.9 %	2.4 %	1.1 %	0.3 %	1.1 %	0.8 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	50.062 ppb	51.561 ppb	57.478 ppb	118.009 %	121.443 %	39.768 ppb	47.774 ppb	48.566 ppb	111.582 %
Concentration per Run 1	49.619 ppb	51.815 ppb	57.146 ppb	118.235 %	119.881 %	40.745 ppb	48.154 ppb	48.927 ppb	110.361 %
Concentration per Run 2	50.754 ppb	51.654 ppb	57.181 ppb	117.804 %	120.867 %	39.654 ppb	47.994 ppb	48.497 ppb	111.105 %
Concentration per Run 3	49.815 ppb	51.212 ppb	58.107 ppb	117.987 %	123.581 %	38.905 ppb	47.175 ppb	48.274 ppb	113.279 %
Concentration RSD	1.2 %	0.6 %	0.9 %	0.2 %	1.6 %	2.3 %	1.1 %	0.7 %	1.4 %

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Analysis index: 34
Analysis label: WG1427727-4 6020SL
Analysis started at: 10/29/2020 10:04:41 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	107.748 %	126.101 %	0.059 ppb	146,932.274 ppb	119,107.639 ppb	4.905 ppb	15,348.370 ppb	311,099.756 ppb	131.128 %
Concentration per Run 1	115.535 %	128.595 %	0.065 ppb	141,402.795 ppb	114,166.916 ppb	5.016 ppb	14,649.131 ppb	298,314.340 ppb	134.370 %
Concentration per Run 2	110.925 %	123.343 %	0.049 ppb	148,425.327 ppb	121,472.649 ppb	5.382 ppb	15,396.458 ppb	314,405.218 ppb	131.315 %
Concentration per Run 3	96.784 %	126.367 %	0.063 ppb	150,968.699 ppb	121,683.351 ppb	4.317 ppb	15,999.520 ppb	320,579.709 ppb	127.700 %
Concentration RSD	9.1 %	2.1 %	14.3 %	3.4 %	3.6 %	11.0 %	4.4 %	3.7 %	2.5 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	445.320 ppb	-0.056 ppb	0.656 ppb	6,817.343 ppb	75,982.950 ppb	3.057 ppb	8.221 ppb	0.159 ppb	11.546 ppb
Concentration per Run 1	425.636 ppb	-0.098 ppb	0.636 ppb	6,575.912 ppb	74,895.520 ppb	2.981 ppb	8.058 ppb	0.197 ppb	11.377 ppb
Concentration per Run 2	445.801 ppb	-0.014 ppb	0.686 ppb	6,895.936 ppb	76,540.402 ppb	3.019 ppb	7.904 ppb	0.167 ppb	11.720 ppb
Concentration per Run 3	464.524 ppb	-0.058 ppb	0.645 ppb	6,980.181 ppb	76,512.928 ppb	3.171 ppb	8.702 ppb	0.113 ppb	11.541 ppb
Concentration RSD	4.4 %	74.6 %	4.1 %	3.1 %	1.2 %	3.3 %	5.1 %	27.1 %	1.5 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	114.827 %	0.216 ppb	0.117 ppb	2,333.896 ppb	2.036 ppb	101.141 %	0.002 ppb	0.058 ppb	117.649 %
Concentration per Run 1	113.027 %	0.176 ppb	0.122 ppb	2,290.802 ppb	1.646 ppb	100.875 %	-0.001 ppb	0.060 ppb	115.706 %
Concentration per Run 2	112.386 %	0.268 ppb	0.031 ppb	2,313.415 ppb	2.331 ppb	100.514 %	0.004 ppb	0.052 ppb	115.574 %
Concentration per Run 3	119.068 %	0.204 ppb	0.198 ppb	2,397.471 ppb	2.131 ppb	102.032 %	0.004 ppb	0.060 ppb	121.667 %
Concentration RSD	3.2 %	21.9 %	71.7 %	2.4 %	17.3 %	0.8 %	150.9 %	7.9 %	3.0 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	2.127 ppb	0.592 ppb	84.728 ppb	109.937 %	111.755 %	1.228 ppb	0.549 ppb	0.101 ppb	94.183 %
Concentration per Run 1	2.056 ppb	0.518 ppb	84.297 ppb	108.721 %	109.418 %	1.041 ppb	0.565 ppb	0.093 ppb	93.336 %
Concentration per Run 2	2.046 ppb	0.649 ppb	84.665 ppb	109.852 %	111.367 %	1.285 ppb	0.565 ppb	0.107 ppb	93.333 %
Concentration per Run 3	2.279 ppb	0.609 ppb	85.222 ppb	111.239 %	114.480 %	1.357 ppb	0.517 ppb	0.102 ppb	95.879 %
Concentration RSD	6.2 %	11.4 %	0.5 %	1.1 %	2.3 %	13.5 %	5.1 %	6.8 %	1.6 %

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Analysis index: 35
Analysis label: L2046625-01 6020SL
Analysis started at: 10/29/2020 10:09:47 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	117.328 %	129.391 %	0.046 ppb	147,179.130 ppb	118,324.100 ppb	5.618 ppb	15,440.904 ppb	313,423.715 ppb	129.597 %
Concentration per Run 1	107.025 %	131.778 %	0.043 ppb	144,486.509 ppb	115,853.356 ppb	5.858 ppb	15,171.723 ppb	307,668.460 ppb	123.842 %
Concentration per Run 2	125.134 %	122.865 %	0.045 ppb	150,916.312 ppb	120,427.975 ppb	5.140 ppb	15,461.237 ppb	312,680.675 ppb	134.250 %
Concentration per Run 3	119.826 %	133.529 %	0.052 ppb	146,134.568 ppb	118,690.970 ppb	5.856 ppb	15,689.753 ppb	319,922.010 ppb	130.700 %
Concentration RSD	7.9 %	4.4 %	9.7 %	2.3 %	2.0 %	7.4 %	1.7 %	2.0 %	4.1 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	451.499 ppb	-0.031 ppb	0.650 ppb	6,888.642 ppb	76,358.117 ppb	3.028 ppb	7.821 ppb	0.176 ppb	11.539 ppb
Concentration per Run 1	443.832 ppb	-0.057 ppb	0.642 ppb	6,906.886 ppb	76,821.434 ppb	3.222 ppb	7.825 ppb	0.261 ppb	11.646 ppb
Concentration per Run 2	447.554 ppb	-0.057 ppb	0.647 ppb	6,755.508 ppb	75,450.243 ppb	3.053 ppb	7.583 ppb	0.137 ppb	11.686 ppb
Concentration per Run 3	463.111 ppb	0.020 ppb	0.660 ppb	7,003.532 ppb	76,802.674 ppb	2.810 ppb	8.056 ppb	0.131 ppb	11.285 ppb
Concentration RSD	2.3 %	141.6 %	1.4 %	1.8 %	1.0 %	6.8 %	3.0 %	41.8 %	1.9 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	116.974 %	0.201 ppb	0.093 ppb	2,333.615 ppb	1.250 ppb	102.585 %	0.002 ppb	0.049 ppb	119.046 %
Concentration per Run 1	113.486 %	0.257 ppb	-0.032 ppb	2,313.736 ppb	1.116 ppb	102.223 %	0.003 ppb	0.054 ppb	117.212 %
Concentration per Run 2	117.635 %	0.143 ppb	0.231 ppb	2,290.293 ppb	1.366 ppb	101.815 %	0.004 ppb	0.036 ppb	117.631 %
Concentration per Run 3	119.801 %	0.202 ppb	0.080 ppb	2,396.815 ppb	1.268 ppb	103.717 %	0.001 ppb	0.057 ppb	122.295 %
Concentration RSD	2.7 %	28.2 %	141.9 %	2.4 %	10.1 %	1.0 %	69.8 %	23.3 %	2.4 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.282 ppb	0.386 ppb	84.885 ppb	110.910 %	113.772 %	0.432 ppb	0.207 ppb	0.061 ppb	95.275 %
Concentration per Run 1	1.130 ppb	0.357 ppb	83.727 ppb	111.029 %	113.257 %	0.361 ppb	0.192 ppb	0.056 ppb	94.794 %
Concentration per Run 2	1.249 ppb	0.378 ppb	84.131 ppb	109.778 %	111.647 %	0.449 ppb	0.214 ppb	0.066 ppb	94.450 %
Concentration per Run 3	1.468 ppb	0.423 ppb	86.795 ppb	111.922 %	116.411 %	0.486 ppb	0.216 ppb	0.061 ppb	96.581 %
Concentration RSD	13.4 %	8.7 %	2.0 %	1.0 %	2.1 %	14.9 %	6.3 %	8.3 %	1.2 %

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Analysis index: 36
Analysis label: L2046272-02 CT-6020SL
Analysis started at: 10/29/2020 10:14:53 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	117.591 %	133.263 %	0.017 ppb	62,448.602 ppb	9,703.231 ppb	1.942 ppb	6,276.821 ppb	110,188.432 ppb	121.995 %
Concentration per Run 1	120.697 %	143.715 %	0.016 ppb	57,949.307 ppb	9,002.428 ppb	1.320 ppb	5,940.428 ppb	102,946.782 ppb	124.361 %
Concentration per Run 2	118.433 %	127.003 %	0.016 ppb	64,599.219 ppb	10,173.471 ppb	2.330 ppb	6,420.051 ppb	114,574.270 ppb	123.604 %
Concentration per Run 3	113.645 %	129.072 %	0.018 ppb	64,797.281 ppb	9,933.795 ppb	2.176 ppb	6,469.984 ppb	113,044.243 ppb	118.019 %
Concentration RSD	3.1 %	6.8 %	7.5 %	6.2 %	6.4 %	28.0 %	4.7 %	5.7 %	2.8 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	160.331 ppb	0.067 ppb	0.200 ppb	1,941.551 ppb	802.722 ppb	0.303 ppb	0.933 ppb	1.453 ppb	7.744 ppb
Concentration per Run 1	153.965 ppb	0.098 ppb	0.207 ppb	1,841.836 ppb	761.845 ppb	0.309 ppb	0.859 ppb	1.282 ppb	7.246 ppb
Concentration per Run 2	166.426 ppb	0.058 ppb	0.196 ppb	1,993.449 ppb	827.616 ppb	0.333 ppb	1.073 ppb	1.596 ppb	7.895 ppb
Concentration per Run 3	160.604 ppb	0.044 ppb	0.198 ppb	1,989.369 ppb	818.705 ppb	0.266 ppb	0.867 ppb	1.482 ppb	8.091 ppb
Concentration RSD	3.9 %	41.8 %	2.9 %	4.4 %	4.4 %	11.1 %	13.0 %	10.9 %	5.7 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	125.580 %	0.844 ppb	0.088 ppb	352.560 ppb	2.191 ppb	111.329 %	0.004 ppb	0.014 ppb	124.814 %
Concentration per Run 1	127.763 %	0.886 ppb	0.148 ppb	342.238 ppb	2.020 ppb	112.330 %	0.003 ppb	0.010 ppb	126.803 %
Concentration per Run 2	124.103 %	0.845 ppb	0.016 ppb	357.840 ppb	2.312 ppb	111.200 %	0.001 ppb	0.019 ppb	123.960 %
Concentration per Run 3	124.875 %	0.803 ppb	0.099 ppb	357.601 ppb	2.242 ppb	110.457 %	0.006 ppb	0.015 ppb	123.679 %
Concentration RSD	1.5 %	4.9 %	76.1 %	2.5 %	7.0 %	0.8 %	67.1 %	34.1 %	1.4 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.480 ppb	0.223 ppb	36.631 ppb	119.896 %	121.371 %	1.523 ppb	0.107 ppb	0.051 ppb	107.229 %
Concentration per Run 1	0.394 ppb	0.228 ppb	36.138 ppb	121.016 %	122.322 %	1.441 ppb	0.095 ppb	0.046 ppb	108.972 %
Concentration per Run 2	0.469 ppb	0.215 ppb	36.899 ppb	119.740 %	121.504 %	1.541 ppb	0.121 ppb	0.052 ppb	107.808 %
Concentration per Run 3	0.578 ppb	0.225 ppb	36.855 ppb	118.933 %	120.288 %	1.586 ppb	0.107 ppb	0.054 ppb	104.906 %
Concentration RSD	19.3 %	3.1 %	1.2 %	0.9 %	0.8 %	4.9 %	12.1 %	8.0 %	2.0 %

Alpha ICPMSQ Full

10/29/2020 9:29:56 PM

Analysis index: 37
Analysis label: L2046272-04 CT-6020SL
Analysis started at: 10/29/2020 10:20:00 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	127.883 %	136.075 %	0.001 ppb	27,926.963 ppb	3,493.215 ppb	2.587 ppb	4,001.325 ppb	48,704.314 ppb	130.703 %
Concentration per Run 1	130.806 %	137.826 %	0.002 ppb	27,513.918 ppb	3,455.789 ppb	2.448 ppb	3,922.936 ppb	47,548.101 ppb	133.209 %
Concentration per Run 2	128.201 %	133.210 %	0.001 ppb	28,889.939 ppb	3,641.096 ppb	2.567 ppb	4,043.420 ppb	49,831.592 ppb	131.025 %
Concentration per Run 3	124.643 %	137.189 %	0.002 ppb	27,377.032 ppb	3,382.760 ppb	2.746 ppb	4,037.618 ppb	48,733.250 ppb	127.876 %
Concentration RSD	2.4 %	1.8 %	43.3 %	3.0 %	3.8 %	5.8 %	1.7 %	2.3 %	2.1 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	71.050 ppb	-0.016 ppb	0.156 ppb	116.640 ppb	1,505.391 ppb	0.064 ppb	0.124 ppb	0.113 ppb	9.800 ppb
Concentration per Run 1	69.635 ppb	-0.025 ppb	0.184 ppb	113.425 ppb	1,463.173 ppb	0.071 ppb	0.098 ppb	0.170 ppb	9.727 ppb
Concentration per Run 2	70.962 ppb	-0.035 ppb	0.137 ppb	119.470 ppb	1,554.029 ppb	0.054 ppb	0.073 ppb	0.080 ppb	9.622 ppb
Concentration per Run 3	72.552 ppb	0.013 ppb	0.147 ppb	117.025 ppb	1,498.971 ppb	0.069 ppb	0.202 ppb	0.088 ppb	10.052 ppb
Concentration RSD	2.1 %	160.4 %	15.8 %	2.6 %	3.0 %	14.1 %	55.2 %	44.1 %	2.3 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	130.394 %	0.127 ppb	0.027 ppb	416.913 ppb	1.566 ppb	119.164 %	0.000 ppb	0.002 ppb	129.888 %
Concentration per Run 1	133.051 %	0.100 ppb	0.032 ppb	407.232 ppb	1.434 ppb	121.465 %	-0.001 ppb	0.000 ppb	133.023 %
Concentration per Run 2	128.384 %	0.135 ppb	0.065 ppb	431.133 ppb	1.512 ppb	115.759 %	0.000 ppb	0.002 ppb	126.016 %
Concentration per Run 3	129.747 %	0.147 ppb	-0.017 ppb	412.376 ppb	1.752 ppb	120.267 %	0.001 ppb	0.002 ppb	130.626 %
Concentration RSD	1.8 %	19.0 %	154.0 %	3.0 %	10.6 %	2.5 %	265.1 %	86.6 %	2.7 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.500 ppb	0.124 ppb	10.326 ppb	123.532 %	125.813 %	0.444 ppb	0.088 ppb	0.022 ppb	114.219 %
Concentration per Run 1	0.341 ppb	0.082 ppb	10.204 ppb	126.464 %	127.722 %	0.366 ppb	0.083 ppb	0.017 ppb	116.181 %
Concentration per Run 2	0.561 ppb	0.130 ppb	10.584 ppb	120.896 %	122.694 %	0.461 ppb	0.090 ppb	0.027 ppb	112.493 %
Concentration per Run 3	0.598 ppb	0.161 ppb	10.190 ppb	123.234 %	127.024 %	0.504 ppb	0.092 ppb	0.023 ppb	113.982 %
Concentration RSD	27.8 %	31.9 %	2.2 %	2.3 %	2.2 %	16.0 %	5.4 %	22.3 %	1.6 %

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Analysis index: 38
Analysis label: L2046272-06 CT-6020SL
Analysis started at: 10/29/2020 10:25:08 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	108.716 %	127.587 %	0.150 ppb	9,823.994 ppb	8,724.100 ppb	6.821 ppb	3,296.685 ppb	39,157.170 ppb	120.471 %
Concentration per Run 1	113.886 %	128.436 %	0.138 ppb	9,797.636 ppb	8,791.758 ppb	6.892 ppb	3,324.031 ppb	39,021.688 ppb	123.527 %
Concentration per Run 2	96.105 %	130.823 %	0.168 ppb	9,697.041 ppb	8,611.772 ppb	5.868 ppb	3,256.981 ppb	38,570.425 ppb	111.354 %
Concentration per Run 3	116.157 %	123.502 %	0.145 ppb	9,977.303 ppb	8,768.771 ppb	7.704 ppb	3,309.044 ppb	39,879.399 ppb	126.533 %
Concentration RSD	10.1 %	2.9 %	10.6 %	1.4 %	1.1 %	13.5 %	1.1 %	1.7 %	6.7 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	56.873 ppb	0.654 ppb	0.480 ppb	2,044.341 ppb	15,152.352 ppb	0.309 ppb	0.861 ppb	0.243 ppb	11.007 ppb
Concentration per Run 1	55.322 ppb	0.778 ppb	0.400 ppb	2,046.955 ppb	15,168.693 ppb	0.300 ppb	1.072 ppb	0.216 ppb	11.302 ppb
Concentration per Run 2	57.421 ppb	0.539 ppb	0.519 ppb	2,035.085 ppb	15,123.111 ppb	0.318 ppb	0.871 ppb	0.208 ppb	10.889 ppb
Concentration per Run 3	57.875 ppb	0.645 ppb	0.520 ppb	2,050.983 ppb	15,165.252 ppb	0.309 ppb	0.640 ppb	0.305 ppb	10.832 ppb
Concentration RSD	2.4 %	18.3 %	14.4 %	0.4 %	0.2 %	2.8 %	25.1 %	22.1 %	2.3 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	118.984 %	0.812 ppb	0.214 ppb	162.777 ppb	1.363 ppb	110.325 %	0.001 ppb	0.007 ppb	122.216 %
Concentration per Run 1	119.640 %	0.769 ppb	0.165 ppb	163.796 ppb	1.225 ppb	109.971 %	0.000 ppb	0.002 ppb	121.210 %
Concentration per Run 2	118.415 %	0.816 ppb	0.138 ppb	163.633 ppb	1.443 ppb	110.098 %	0.002 ppb	0.012 ppb	122.089 %
Concentration per Run 3	118.896 %	0.852 ppb	0.340 ppb	160.903 ppb	1.423 ppb	110.906 %	0.001 ppb	0.005 ppb	123.349 %
Concentration RSD	0.5 %	5.1 %	51.0 %	1.0 %	8.9 %	0.5 %	67.3 %	78.2 %	0.9 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.397 ppb	0.192 ppb	31.717 ppb	117.532 %	120.286 %	0.300 ppb	0.070 ppb	0.042 ppb	112.268 %
Concentration per Run 1	0.331 ppb	0.161 ppb	32.078 ppb	117.112 %	119.782 %	0.266 ppb	0.065 ppb	0.039 ppb	111.653 %
Concentration per Run 2	0.391 ppb	0.190 ppb	32.076 ppb	118.150 %	120.169 %	0.316 ppb	0.068 ppb	0.044 ppb	112.589 %
Concentration per Run 3	0.468 ppb	0.225 ppb	30.995 ppb	117.335 %	120.906 %	0.319 ppb	0.078 ppb	0.041 ppb	112.563 %
Concentration RSD	17.3 %	16.7 %	2.0 %	0.5 %	0.5 %	10.0 %	9.7 %	5.9 %	0.5 %

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Analysis index: 39
Analysis label: WG1427727-6D5 6020SL
Analysis started at: 10/29/2020 10:30:12 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	117.720 %	129.338 %	0.008 ppb	26,423.208 ppb	23,282.089 ppb	0.927 ppb	2,865.353 ppb	60,625.786 ppb	129.498 %
Concentration per Run 1	121.860 %	129.072 %	0.014 ppb	26,425.307 ppb	23,405.758 ppb	0.751 ppb	2,892.844 ppb	60,890.287 ppb	131.001 %
Concentration per Run 2	116.176 %	127.162 %	0.004 ppb	26,591.096 ppb	23,240.405 ppb	0.929 ppb	2,853.483 ppb	60,909.166 ppb	129.025 %
Concentration per Run 3	115.124 %	131.778 %	0.007 ppb	26,253.221 ppb	23,200.106 ppb	1.099 ppb	2,849.734 ppb	60,077.906 ppb	128.469 %
Concentration RSD	3.1 %	1.8 %	59.8 %	0.6 %	0.5 %	18.8 %	0.8 %	0.8 %	1.0 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	88.181 ppb	-0.054 ppb	0.148 ppb	1,281.455 ppb	15,069.502 ppb	0.622 ppb	1.792 ppb	0.011 ppb	2.759 ppb
Concentration per Run 1	89.153 ppb	-0.045 ppb	0.171 ppb	1,294.356 ppb	15,269.442 ppb	0.648 ppb	2.015 ppb	0.005 ppb	2.797 ppb
Concentration per Run 2	87.248 ppb	-0.072 ppb	0.127 ppb	1,284.534 ppb	15,041.443 ppb	0.607 ppb	1.567 ppb	0.055 ppb	2.753 ppb
Concentration per Run 3	88.143 ppb	-0.046 ppb	0.146 ppb	1,265.473 ppb	14,897.619 ppb	0.612 ppb	1.793 ppb	-0.027 ppb	2.726 ppb
Concentration RSD	1.1 %	27.3 %	15.1 %	1.1 %	1.2 %	3.6 %	12.5 %	368.7 %	1.3 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	123.237 %	0.052 ppb	0.035 ppb	432.857 ppb	0.242 ppb	113.323 %	0.001 ppb	0.006 ppb	126.383 %
Concentration per Run 1	121.813 %	0.053 ppb	0.018 ppb	436.419 ppb	0.146 ppb	112.722 %	0.001 ppb	0.007 ppb	125.004 %
Concentration per Run 2	123.679 %	0.044 ppb	0.016 ppb	430.828 ppb	0.227 ppb	114.480 %	0.000 ppb	0.005 ppb	127.920 %
Concentration per Run 3	124.219 %	0.058 ppb	0.071 ppb	431.324 ppb	0.353 ppb	112.768 %	0.001 ppb	0.005 ppb	126.224 %
Concentration RSD	1.0 %	14.3 %	89.0 %	0.7 %	43.1 %	0.9 %	54.0 %	25.6 %	1.2 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.347 ppb	0.087 ppb	16.143 ppb	123.056 %	125.465 %	0.040 ppb	0.054 ppb	0.011 ppb	112.644 %
Concentration per Run 1	0.216 ppb	0.065 ppb	16.446 ppb	121.571 %	123.131 %	0.004 ppb	0.045 ppb	0.009 ppb	111.480 %
Concentration per Run 2	0.355 ppb	0.106 ppb	15.859 ppb	124.320 %	127.892 %	0.043 ppb	0.054 ppb	0.014 ppb	113.856 %
Concentration per Run 3	0.471 ppb	0.088 ppb	16.123 ppb	123.277 %	125.371 %	0.074 ppb	0.062 ppb	0.009 ppb	112.595 %
Concentration RSD	36.7 %	23.7 %	1.8 %	1.1 %	1.9 %	87.3 %	16.7 %	25.5 %	1.1 %

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10/29/2020 9:29:56 PM

Analysis index: 40 Analysis started at: 10/29/2020 10:35:18 AM
Analysis label: CCV User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	113.931 %	130.982 %	64.436 ppb	5,918.555 ppb	5,969.843 ppb	64.931 ppb	6,268.293 ppb	6,102.084 ppb	124.384 %
Concentration per Run 1	121.675 %	125.889 %	61.176 ppb	6,131.985 ppb	6,176.668 ppb	68.400 ppb	6,383.250 ppb	6,253.540 ppb	130.416 %
Concentration per Run 2	113.964 %	136.871 %	64.494 ppb	5,674.428 ppb	5,768.386 ppb	61.509 ppb	6,194.045 ppb	6,009.807 ppb	123.461 %
Concentration per Run 3	106.153 %	130.186 %	67.639 ppb	5,949.251 ppb	5,964.475 ppb	64.883 ppb	6,227.584 ppb	6,042.903 ppb	119.274 %
Recovery Percentage 1			107.394 %	98.643 %	99.497 %	108.218 %	104.472 %	101.701 %	
Concentration RSD	6.8 %	4.2 %	5.0 %	3.9 %	3.4 %	5.3 %	1.6 %	2.2 %	4.5 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	59.970 ppb	59.389 ppb	59.162 ppb	60.167 ppb	6,022.358 ppb	58.219 ppb	58.842 ppb	58.906 ppb	59.885 ppb
Concentration per Run 1	62.232 ppb	60.160 ppb	60.125 ppb	59.779 ppb	6,093.478 ppb	59.645 ppb	61.365 ppb	60.727 ppb	60.530 ppb
Concentration per Run 2	57.551 ppb	60.208 ppb	58.806 ppb	59.778 ppb	5,915.219 ppb	57.196 ppb	58.004 ppb	57.963 ppb	59.978 ppb
Concentration per Run 3	60.128 ppb	57.798 ppb	58.555 ppb	60.942 ppb	6,058.375 ppb	57.815 ppb	57.159 ppb	58.030 ppb	59.148 ppb
Recovery Percentage 1	99.951 %	98.981 %	98.604 %	100.278 %	100.373 %	97.031 %	98.071 %	98.177 %	99.808 %
Concentration RSD	3.9 %	2.3 %	1.4 %	1.1 %	1.6 %	2.2 %	3.8 %	2.7 %	1.2 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	120.741 %	60.446 ppb	61.040 ppb	62.698 ppb	59.357 ppb	115.087 %	58.759 ppb	59.052 ppb	125.983 %
Concentration per Run 1	120.600 %	59.962 ppb	61.703 ppb	63.378 ppb	60.273 ppb	115.136 %	59.052 ppb	59.443 ppb	126.269 %
Concentration per Run 2	120.270 %	61.663 ppb	61.901 ppb	62.474 ppb	58.486 ppb	114.819 %	58.517 ppb	58.532 ppb	126.093 %
Concentration per Run 3	121.355 %	59.713 ppb	59.518 ppb	62.243 ppb	59.311 ppb	115.304 %	58.708 ppb	59.183 ppb	125.586 %
Recovery Percentage 1		100.743 %	101.734 %	104.497 %	98.928 %		97.931 %	98.421 %	
Concentration RSD	0.5 %	1.8 %	2.2 %	1.0 %	1.5 %	0.2 %	0.5 %	0.8 %	0.3 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	60.232 ppb	60.088 ppb	61.075 ppb	121.261 %	124.762 %	57.619 ppb	58.556 ppb	60.124 ppb	116.034 %
Concentration per Run 1	60.155 ppb	60.033 ppb	62.253 ppb	120.438 %	124.113 %	58.225 ppb	58.905 ppb	60.489 ppb	116.035 %
Concentration per Run 2	60.192 ppb	60.160 ppb	61.357 ppb	122.126 %	125.145 %	57.609 ppb	58.464 ppb	59.814 ppb	116.342 %
Concentration per Run 3	60.349 ppb	60.071 ppb	59.615 ppb	121.219 %	125.028 %	57.024 ppb	58.300 ppb	60.068 ppb	115.726 %
Recovery Percentage 1	100.387 %	100.147 %	101.792 %			96.032 %	97.594 %	100.206 %	
Concentration RSD	0.2 %	0.1 %	2.2 %	0.7 %	0.5 %	1.0 %	0.5 %	0.6 %	0.3 %

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Analysis index: 41 Analysis started at: 10/29/2020 10:40:27 AM
Analysis label: CCB User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	110.818 %	119.735 %	0.002 ppb	-3.985 ppb	1.193 ppb	0.181 ppb	-1.212 ppb	3.045 ppb	113.797 %
Concentration per Run 1	113.710 %	117.136 %	0.002 ppb	-3.638 ppb	1.651 ppb	0.427 ppb	3.225 ppb	3.593 ppb	115.121 %
Concentration per Run 2	110.966 %	125.889 %	0.005 ppb	-4.978 ppb	-0.072 ppb	0.298 ppb	-6.319 ppb	3.349 ppb	114.764 %
Concentration per Run 3	107.778 %	116.181 %	-0.001 ppb	-3.340 ppb	2.000 ppb	-0.183 ppb	-0.541 ppb	2.194 ppb	111.507 %
Recovery Percentage 1			0.360 %	-3.985 %	1.704 %	1.807 %	-1.212 %	3.045 %	
Concentration RSD	2.7 %	4.5 %	180.0 %	21.9 %	93.0 %	178.1 %	396.7 %	24.5 %	1.8 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.267 ppb	-0.060 ppb	0.007 ppb	0.013 ppb	36.516 ppb	0.001 ppb	0.044 ppb	0.019 ppb	-0.041 ppb
Concentration per Run 1	0.220 ppb	-0.083 ppb	0.000 ppb	0.008 ppb	31.885 ppb	0.000 ppb	-0.011 ppb	0.001 ppb	-0.071 ppb
Concentration per Run 2	0.211 ppb	-0.028 ppb	0.008 ppb	0.007 ppb	42.632 ppb	0.000 ppb	0.088 ppb	0.010 ppb	0.062 ppb
Concentration per Run 3	0.371 ppb	-0.069 ppb	0.014 ppb	0.024 ppb	35.031 ppb	0.004 ppb	0.056 ppb	0.045 ppb	-0.114 ppb
Recovery Percentage 1	53.432 %	-1.205 %	0.715 %	1.286 %	73.032 %	0.294 %	2.213 %	1.866 %	-0.411 %
Concentration RSD	33.6 %	47.5 %	99.4 %	74.0 %	15.1 %	173.2 %	113.8 %	124.9 %	222.6 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	112.191 %	0.034 ppb	0.142 ppb	0.006 ppb	0.859 ppb	107.390 %	0.003 ppb	0.001 ppb	116.483 %
Concentration per Run 1	111.402 %	0.029 ppb	0.247 ppb	0.008 ppb	0.722 ppb	104.613 %	0.001 ppb	0.003 ppb	113.290 %
Concentration per Run 2	112.568 %	0.028 ppb	0.059 ppb	0.011 ppb	0.958 ppb	108.787 %	0.010 ppb	0.000 ppb	117.664 %
Concentration per Run 3	112.604 %	0.044 ppb	0.120 ppb	0.000 ppb	0.897 ppb	108.770 %	0.000 ppb	0.000 ppb	118.496 %
Recovery Percentage 1		6.703 %	2.845 %	1.264 %	42.942 %		0.861 %	0.438 %	
Concentration RSD	0.6 %	27.6 %	67.4 %	93.5 %	14.3 %	2.2 %	171.1 %	173.2 %	2.4 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.865 ppb	0.073 ppb	0.023 ppb	110.901 %	114.084 %	1.026 ppb	0.502 ppb	0.034 ppb	109.820 %
Concentration per Run 1	0.794 ppb	0.064 ppb	0.021 ppb	107.869 %	110.514 %	0.891 ppb	0.551 ppb	0.034 ppb	108.382 %
Concentration per Run 2	0.873 ppb	0.072 ppb	0.037 ppb	113.160 %	116.584 %	1.083 ppb	0.472 ppb	0.032 ppb	110.706 %
Concentration per Run 3	0.926 ppb	0.082 ppb	0.011 ppb	111.674 %	115.155 %	1.105 ppb	0.484 ppb	0.037 ppb	110.371 %
Recovery Percentage 1	28.819 %	1.818 %	4.578 %			51.308 %	100.433 %	3.442 %	
Concentration RSD	7.7 %	12.6 %	58.1 %	2.5 %	2.8 %	11.5 %	8.5 %	7.7 %	1.1 %

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Analysis index: 42
Analysis label: WG1427631-1 6020TL
Analysis started at: 10/29/2020 10:46:29 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	111.297 %	121.592 %	0.001 ppb	-1.357 ppb	0.825 ppb	0.869 ppb	-1.720 ppb	13.436 ppb	111.408 %
Concentration per Run 1	114.534 %	117.136 %	0.005 ppb	-0.400 ppb	1.644 ppb	0.788 ppb	-2.984 ppb	19.574 ppb	112.805 %
Concentration per Run 2	110.287 %	122.547 %	0.002 ppb	-0.615 ppb	0.583 ppb	1.011 ppb	-0.531 ppb	7.623 ppb	111.074 %
Concentration per Run 3	109.069 %	125.093 %	-0.005 ppb	-3.055 ppb	0.247 ppb	0.810 ppb	-1.644 ppb	13.110 ppb	110.345 %
Concentration RSD	2.6 %	3.3 %	566.7 %	108.7 %	88.4 %	14.2 %	71.4 %	44.5 %	1.1 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.189 ppb	-0.019 ppb	0.011 ppb	0.200 ppb	9.572 ppb	0.006 ppb	0.021 ppb	0.005 ppb	-0.044 ppb
Concentration per Run 1	0.088 ppb	-0.012 ppb	0.033 ppb	0.201 ppb	6.722 ppb	0.004 ppb	0.089 ppb	0.000 ppb	-0.049 ppb
Concentration per Run 2	0.395 ppb	-0.029 ppb	0.007 ppb	0.146 ppb	10.325 ppb	0.000 ppb	-0.029 ppb	0.008 ppb	-0.035 ppb
Concentration per Run 3	0.082 ppb	-0.016 ppb	-0.007 ppb	0.253 ppb	11.668 ppb	0.013 ppb	0.003 ppb	0.008 ppb	-0.047 ppb
Concentration RSD	94.9 %	45.8 %	178.8 %	26.7 %	26.7 %	113.1 %	286.0 %	89.8 %	18.3 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	115.474 %	0.015 ppb	0.036 ppb	0.001 ppb	0.239 ppb	109.478 %	0.002 ppb	0.000 ppb	119.350 %
Concentration per Run 1	112.932 %	0.003 ppb	0.059 ppb	0.006 ppb	0.159 ppb	107.131 %	0.005 ppb	0.000 ppb	116.510 %
Concentration per Run 2	116.691 %	-0.007 ppb	0.024 ppb	-0.001 ppb	0.220 ppb	110.900 %	0.000 ppb	0.000 ppb	123.080 %
Concentration per Run 3	116.798 %	0.049 ppb	0.024 ppb	-0.004 ppb	0.338 ppb	110.403 %	0.001 ppb	0.000 ppb	118.461 %
Concentration RSD	1.9 %	197.2 %	57.2 %	868.6 %	38.1 %	1.9 %	108.3 %	N/A	2.8 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.377 ppb	0.026 ppb	0.043 ppb	112.143 %	116.148 %	0.245 ppb	0.161 ppb	0.021 ppb	112.207 %
Concentration per Run 1	0.361 ppb	0.022 ppb	0.029 ppb	109.700 %	114.215 %	0.202 ppb	0.159 ppb	0.021 ppb	110.401 %
Concentration per Run 2	0.383 ppb	0.031 ppb	0.062 ppb	113.159 %	118.481 %	0.228 ppb	0.168 ppb	0.022 ppb	112.850 %
Concentration per Run 3	0.388 ppb	0.026 ppb	0.037 ppb	113.572 %	115.748 %	0.304 ppb	0.155 ppb	0.022 ppb	113.369 %
Concentration RSD	3.8 %	17.4 %	40.2 %	1.9 %	1.9 %	21.7 %	3.9 %	3.3 %	1.4 %

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Analysis index: 43
Analysis label: WG1427631-2D5 6020TL
Analysis started at: 10/29/2020 10:51:34 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	117.431 %	129.284 %	9.848 ppb	2,077.724 ppb	2,106.224 ppb	429.914 ppb	2,123.346 ppb	1,919.025 ppb	125.304 %
Concentration per Run 1	121.136 %	130.027 %	9.195 ppb	2,038.255 ppb	2,080.707 ppb	419.203 ppb	2,091.709 ppb	1,994.927 ppb	128.001 %
Concentration per Run 2	117.509 %	128.276 %	9.863 ppb	2,186.420 ppb	2,227.986 ppb	465.841 ppb	2,274.871 ppb	1,943.493 ppb	125.451 %
Concentration per Run 3	113.647 %	129.550 %	10.485 ppb	2,008.496 ppb	2,009.980 ppb	404.697 ppb	2,003.457 ppb	1,818.657 ppb	122.461 %
Concentration RSD	3.2 %	0.7 %	6.5 %	4.6 %	5.3 %	7.4 %	6.5 %	4.7 %	2.2 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	173.653 ppb	99.220 ppb	38.891 ppb	100.443 ppb	206.127 ppb	97.936 ppb	95.671 ppb	49.625 ppb	105.783 ppb
Concentration per Run 1	172.815 ppb	99.460 ppb	38.635 ppb	101.170 ppb	207.010 ppb	98.949 ppb	97.631 ppb	50.425 ppb	107.211 ppb
Concentration per Run 2	179.082 ppb	101.524 ppb	40.263 ppb	103.963 ppb	217.388 ppb	98.881 ppb	96.358 ppb	49.430 ppb	106.689 ppb
Concentration per Run 3	169.062 ppb	96.675 ppb	37.773 ppb	96.195 ppb	193.983 ppb	95.977 ppb	93.025 ppb	49.021 ppb	103.447 ppb
Concentration RSD	2.9 %	2.5 %	3.3 %	3.9 %	5.7 %	1.7 %	2.5 %	1.5 %	1.9 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	123.926 %	24.847 ppb	25.296 ppb	210.309 ppb	199.491 ppb	115.021 %	10.403 ppb	11.015 ppb	126.181 %
Concentration per Run 1	123.231 %	25.362 ppb	26.257 ppb	211.066 ppb	198.508 ppb	116.308 %	10.306 ppb	10.920 ppb	127.408 %
Concentration per Run 2	129.014 %	24.902 ppb	26.438 ppb	221.842 ppb	204.358 ppb	115.992 %	10.455 ppb	10.950 ppb	130.798 %
Concentration per Run 3	119.533 %	24.276 ppb	23.193 ppb	198.020 ppb	195.607 ppb	112.762 %	10.447 ppb	11.174 ppb	120.337 %
Concentration RSD	3.9 %	2.2 %	7.2 %	5.7 %	2.2 %	1.7 %	0.8 %	1.3 %	4.2 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	193.009 ppb	91.965 ppb	414.797 ppb	120.353 %	124.479 %	0.188 ppb	24.913 ppb	111.729 ppb	116.616 %
Concentration per Run 1	192.372 ppb	90.209 ppb	409.361 ppb	122.250 %	124.163 %	0.109 ppb	25.095 ppb	112.797 ppb	115.986 %
Concentration per Run 2	194.442 ppb	93.374 ppb	427.032 ppb	123.008 %	128.989 %	0.185 ppb	24.997 ppb	113.030 ppb	118.181 %
Concentration per Run 3	192.211 ppb	92.312 ppb	407.999 ppb	115.800 %	120.286 %	0.270 ppb	24.646 ppb	109.362 ppb	115.681 %
Concentration RSD	0.6 %	1.8 %	2.6 %	3.3 %	3.5 %	42.9 %	0.9 %	1.8 %	1.2 %

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Analysis index: 44
Analysis label: L2046625-02 6020SL
Analysis started at: 10/29/2020 10:56:39 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	140.079 %	176.183 %	0.000 ppb	593,354.275 ppb	44,524.780 ppb	11.854 ppb	9,441.397 ppb	62,616.264 ppb	149.438 %
Concentration per Run 1	144.701 %	179.047 %	0.001 ppb	563,571.000 ppb	42,639.436 ppb	11.769 ppb	8,940.554 ppb	60,311.773 ppb	151.658 %
Concentration per Run 2	137.290 %	181.753 %	-0.002 ppb	606,152.283 ppb	45,592.752 ppb	12.429 ppb	9,865.582 ppb	64,861.920 ppb	147.038 %
Concentration per Run 3	138.246 %	167.747 %	0.003 ppb	610,339.543 ppb	45,342.152 ppb	11.362 ppb	9,518.056 ppb	62,675.098 ppb	149.619 %
Concentration RSD	2.9 %	4.2 %	581.6 %	4.4 %	3.7 %	4.5 %	4.9 %	3.6 %	1.5 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	89.091 ppb	1.265 ppb	0.946 ppb	706.064 ppb	18.269 ppb	4.535 ppb	5.190 ppb	1.325 ppb	4.583 ppb
Concentration per Run 1	86.809 ppb	1.281 ppb	0.991 ppb	688.386 ppb	18.591 ppb	4.402 ppb	5.159 ppb	1.332 ppb	4.351 ppb
Concentration per Run 2	92.509 ppb	1.275 ppb	0.881 ppb	723.085 ppb	17.058 ppb	4.520 ppb	5.120 ppb	1.267 ppb	4.551 ppb
Concentration per Run 3	87.956 ppb	1.238 ppb	0.965 ppb	706.721 ppb	19.157 ppb	4.682 ppb	5.290 ppb	1.376 ppb	4.846 ppb
Concentration RSD	3.4 %	1.8 %	6.1 %	2.5 %	5.9 %	3.1 %	1.7 %	4.1 %	5.4 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	138.948 %	0.317 ppb	3.488 ppb	465.109 ppb	14.987 ppb	117.793 %	0.016 ppb	0.021 ppb	132.431 %
Concentration per Run 1	134.791 %	0.285 ppb	3.592 ppb	461.729 ppb	14.475 ppb	115.655 %	0.018 ppb	0.014 ppb	129.630 %
Concentration per Run 2	143.369 %	0.356 ppb	3.428 ppb	488.853 ppb	14.821 ppb	120.341 %	0.017 ppb	0.026 ppb	138.729 %
Concentration per Run 3	138.683 %	0.310 ppb	3.444 ppb	444.744 ppb	15.665 ppb	117.383 %	0.013 ppb	0.023 ppb	128.933 %
Concentration RSD	3.1 %	11.4 %	2.6 %	4.8 %	4.1 %	2.0 %	15.6 %	30.4 %	4.1 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	4.552 ppb	4.156 ppb	99.315 ppb	129.690 %	131.469 %	0.546 ppb	0.297 ppb	1.549 ppb	99.844 %
Concentration per Run 1	4.346 ppb	4.077 ppb	99.052 ppb	127.838 %	129.129 %	0.526 ppb	0.260 ppb	1.516 ppb	98.895 %
Concentration per Run 2	4.620 ppb	4.283 ppb	101.152 ppb	133.533 %	138.104 %	0.507 ppb	0.302 ppb	1.565 ppb	101.441 %
Concentration per Run 3	4.690 ppb	4.107 ppb	97.742 ppb	127.700 %	127.174 %	0.604 ppb	0.328 ppb	1.565 ppb	99.197 %
Concentration RSD	4.0 %	2.7 %	1.7 %	2.6 %	4.4 %	9.4 %	11.6 %	1.8 %	1.4 %

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Analysis index: 45
Analysis label: L2046625-03 6020SL
Analysis started at: 10/29/2020 11:01:45 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	184.917 %	229.819 %	-0.003 ppb	1,171,702.086 ppb	228,078.741 ppb	34.242 ppb	12,665.188 ppb	90,219.186 ppb	199.184 %
Concentration per Run 1	192.928 %	212.153 %	-0.001 ppb	1,192,983.163 ppb	231,229.105 ppb	35.221 ppb	12,792.208 ppb	91,751.881 ppb	207.744 %
Concentration per Run 2	185.885 %	233.003 %	-0.003 ppb	1,178,995.730 ppb	231,307.973 ppb	36.270 ppb	12,933.373 ppb	92,058.360 ppb	198.413 %
Concentration per Run 3	175.939 %	244.303 %	-0.004 ppb	1,143,127.366 ppb	221,699.145 ppb	31.235 ppb	12,269.984 ppb	86,847.317 ppb	191.394 %
Concentration RSD	4.6 %	7.1 %	68.5 %	2.2 %	2.4 %	7.8 %	2.8 %	3.2 %	4.1 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	125.725 ppb	1.024 ppb	2.436 ppb	199.180 ppb	65.553 ppb	2.646 ppb	6.487 ppb	1.917 ppb	3.358 ppb
Concentration per Run 1	127.538 ppb	1.140 ppb	2.643 ppb	204.167 ppb	67.387 ppb	2.853 ppb	6.751 ppb	1.946 ppb	3.467 ppb
Concentration per Run 2	128.709 ppb	1.027 ppb	2.405 ppb	198.391 ppb	61.955 ppb	2.501 ppb	6.501 ppb	1.891 ppb	3.330 ppb
Concentration per Run 3	120.928 ppb	0.905 ppb	2.261 ppb	194.981 ppb	67.317 ppb	2.584 ppb	6.209 ppb	1.914 ppb	3.276 ppb
Concentration RSD	3.3 %	11.5 %	7.9 %	2.3 %	4.8 %	6.9 %	4.2 %	1.4 %	2.9 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	169.082 %	0.512 ppb	6.426 ppb	916.917 ppb	19.137 ppb	133.576 %	0.010 ppb	0.013 ppb	149.531 %
Concentration per Run 1	159.522 %	0.544 ppb	6.431 ppb	934.422 ppb	19.614 ppb	130.790 %	0.012 ppb	0.010 ppb	146.832 %
Concentration per Run 2	173.709 %	0.561 ppb	6.430 ppb	901.342 ppb	18.927 ppb	132.716 %	0.013 ppb	0.024 ppb	149.406 %
Concentration per Run 3	174.015 %	0.431 ppb	6.416 ppb	914.986 ppb	18.869 ppb	137.221 %	0.005 ppb	0.006 ppb	152.353 %
Concentration RSD	4.9 %	13.8 %	0.1 %	1.8 %	2.2 %	2.5 %	45.6 %	71.0 %	1.8 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.752 ppb	1.380 ppb	129.910 ppb	139.205 %	137.369 %	0.704 ppb	0.137 ppb	4.725 ppb	96.637 %
Concentration per Run 1	1.454 ppb	1.342 ppb	129.799 ppb	136.782 %	134.977 %	0.705 ppb	0.121 ppb	4.762 ppb	95.534 %
Concentration per Run 2	1.736 ppb	1.393 ppb	130.696 ppb	138.410 %	137.211 %	0.674 ppb	0.148 ppb	4.759 ppb	96.446 %
Concentration per Run 3	2.067 ppb	1.404 ppb	129.236 ppb	142.424 %	139.919 %	0.732 ppb	0.143 ppb	4.655 ppb	97.930 %
Concentration RSD	17.5 %	2.4 %	0.6 %	2.1 %	1.8 %	4.1 %	10.5 %	1.3 %	1.3 %

Analysis index: 46
Analysis label: L2046790-01 6020SL
Analysis started at: 10/29/2020 11:06:52 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	186.094 %	205.680 %	0.001 ppb	186,770.120 ppb	2,874.922 ppb	4.462 ppb	9,125.783 ppb	29,217.274 ppb	193.105 %
Concentration per Run 1	189.292 %	209.128 %	0.000 ppb	191,835.130 ppb	2,935.806 ppb	4.255 ppb	9,352.387 ppb	29,911.618 ppb	193.707 %
Concentration per Run 2	182.003 %	202.125 %	0.003 ppb	186,686.672 ppb	2,843.329 ppb	4.316 ppb	9,015.765 ppb	28,618.682 ppb	189.708 %
Concentration per Run 3	186.987 %	205.786 %	0.000 ppb	181,788.559 ppb	2,845.629 ppb	4.814 ppb	9,009.197 ppb	29,121.522 ppb	195.900 %
Concentration RSD	2.0 %	1.7 %	283.8 %	2.7 %	1.8 %	6.9 %	2.2 %	2.2 %	1.6 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	40.641 ppb	0.052 ppb	0.662 ppb	944.098 ppb	46.641 ppb	12.698 ppb	11.698 ppb	10.798 ppb	57.899 ppb
Concentration per Run 1	42.692 ppb	0.041 ppb	0.659 ppb	948.479 ppb	49.178 ppb	12.619 ppb	11.404 ppb	10.420 ppb	57.881 ppb
Concentration per Run 2	38.803 ppb	0.077 ppb	0.680 ppb	939.320 ppb	47.897 ppb	13.010 ppb	11.737 ppb	10.638 ppb	58.066 ppb
Concentration per Run 3	40.429 ppb	0.038 ppb	0.645 ppb	944.495 ppb	42.847 ppb	12.465 ppb	11.954 ppb	11.337 ppb	57.751 ppb
Concentration RSD	4.8 %	41.9 %	2.6 %	0.5 %	7.2 %	2.2 %	2.4 %	4.4 %	0.3 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	168.952 %	0.342 ppb	1.163 ppb	188.855 ppb	7.591 ppb	148.137 %	0.002 ppb	0.247 ppb	162.774 %
Concentration per Run 1	177.377 %	0.374 ppb	1.154 ppb	196.243 ppb	7.556 ppb	149.956 %	0.003 ppb	0.223 ppb	171.257 %
Concentration per Run 2	163.660 %	0.283 ppb	0.932 ppb	183.215 ppb	7.790 ppb	148.309 %	0.001 ppb	0.270 ppb	157.997 %
Concentration per Run 3	165.821 %	0.369 ppb	1.403 ppb	187.107 ppb	7.427 ppb	146.147 %	0.001 ppb	0.249 ppb	159.069 %
Concentration RSD	4.4 %	14.9 %	20.3 %	3.5 %	2.4 %	1.3 %	75.0 %	9.6 %	4.5 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.835 ppb	1.021 ppb	45.372 ppb	153.177 %	154.298 %	0.094 ppb	0.132 ppb	0.067 ppb	126.910 %
Concentration per Run 1	0.734 ppb	0.977 ppb	46.120 ppb	157.237 %	159.116 %	0.056 ppb	0.120 ppb	0.069 ppb	129.254 %
Concentration per Run 2	0.840 ppb	1.066 ppb	45.116 ppb	151.484 %	150.845 %	0.098 ppb	0.138 ppb	0.065 ppb	125.927 %
Concentration per Run 3	0.933 ppb	1.019 ppb	44.881 ppb	150.811 %	152.935 %	0.129 ppb	0.137 ppb	0.067 ppb	125.550 %
Concentration RSD	11.9 %	4.4 %	1.5 %	2.3 %	2.8 %	38.8 %	7.6 %	3.3 %	1.6 %

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Analysis index: 47
Analysis label: L2046790-02 6020SL
Analysis started at: 10/29/2020 11:11:56 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	177.615 %	198.889 %	0.004 ppb	206,221.323 ppb	5,986.509 ppb	17.166 ppb	14,892.630 ppb	55,707.567 ppb	188.079 %
Concentration per Run 1	178.332 %	210.879 %	0.003 ppb	202,344.723 ppb	5,933.492 ppb	18.216 ppb	15,167.090 ppb	56,070.260 ppb	188.673 %
Concentration per Run 2	177.204 %	190.189 %	0.002 ppb	205,901.110 ppb	5,974.480 ppb	15.816 ppb	14,486.996 ppb	54,966.395 ppb	186.245 %
Concentration per Run 3	177.309 %	195.600 %	0.008 ppb	210,418.136 ppb	6,051.555 ppb	17.467 ppb	15,023.805 ppb	56,086.046 ppb	189.318 %
Concentration RSD	0.4 %	5.4 %	62.4 %	2.0 %	1.0 %	7.2 %	2.4 %	1.2 %	0.9 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	78.055 ppb	0.091 ppb	0.647 ppb	101.513 ppb	32.342 ppb	1.682 ppb	2.081 ppb	4.363 ppb	5.226 ppb
Concentration per Run 1	79.151 ppb	0.109 ppb	0.634 ppb	100.295 ppb	29.751 ppb	1.679 ppb	2.175 ppb	4.182 ppb	5.244 ppb
Concentration per Run 2	78.001 ppb	0.024 ppb	0.664 ppb	100.782 ppb	29.513 ppb	1.699 ppb	2.246 ppb	4.499 ppb	5.226 ppb
Concentration per Run 3	77.013 ppb	0.139 ppb	0.642 ppb	103.462 ppb	37.763 ppb	1.667 ppb	1.823 ppb	4.406 ppb	5.208 ppb
Concentration RSD	1.4 %	65.7 %	2.4 %	1.7 %	14.5 %	0.9 %	10.9 %	3.7 %	0.3 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	170.547 %	0.191 ppb	0.595 ppb	372.771 ppb	1.902 ppb	143.162 %	0.000 ppb	0.018 ppb	157.443 %
Concentration per Run 1	177.260 %	0.148 ppb	0.822 ppb	381.978 ppb	1.830 ppb	147.852 %	-0.001 ppb	0.020 ppb	166.390 %
Concentration per Run 2	164.923 %	0.236 ppb	0.468 ppb	355.815 ppb	1.924 ppb	140.123 %	0.001 ppb	0.018 ppb	150.542 %
Concentration per Run 3	169.457 %	0.190 ppb	0.494 ppb	380.520 ppb	1.952 ppb	141.513 %	0.000 ppb	0.015 ppb	155.398 %
Concentration RSD	3.7 %	23.0 %	33.1 %	3.9 %	3.4 %	2.9 %	1,692.4 %	12.8 %	5.2 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.591 ppb	0.530 ppb	51.617 ppb	147.490 %	148.593 %	0.071 ppb	0.106 ppb	0.032 ppb	122.357 %
Concentration per Run 1	0.467 ppb	0.499 ppb	50.851 ppb	152.264 %	155.769 %	0.026 ppb	0.090 ppb	0.034 ppb	125.956 %
Concentration per Run 2	0.654 ppb	0.501 ppb	49.952 ppb	145.148 %	142.552 %	0.057 ppb	0.108 ppb	0.032 ppb	120.041 %
Concentration per Run 3	0.652 ppb	0.590 ppb	54.047 ppb	145.057 %	147.457 %	0.130 ppb	0.122 ppb	0.031 ppb	121.073 %
Concentration RSD	18.2 %	9.9 %	4.2 %	2.8 %	4.5 %	75.3 %	15.2 %	4.9 %	2.6 %

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Analysis index: 48
Analysis label: L2046790-03 6020SL
Analysis started at: 10/29/2020 11:17:00 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	156.261 %	178.888 %	0.009 ppb	45,516.706 ppb	3,098.584 ppb	102.857 ppb	4,188.847 ppb	36,071.713 ppb	161.998 %
Concentration per Run 1	164.598 %	176.023 %	0.012 ppb	46,388.279 ppb	3,114.845 ppb	102.636 ppb	4,226.148 ppb	36,226.105 ppb	169.017 %
Concentration per Run 2	156.869 %	180.321 %	0.006 ppb	46,888.240 ppb	3,223.144 ppb	113.612 ppb	4,384.257 ppb	37,486.761 ppb	161.608 %
Concentration per Run 3	147.316 %	180.321 %	0.008 ppb	43,273.599 ppb	2,957.762 ppb	92.322 ppb	3,956.136 ppb	34,502.274 ppb	155.371 %
Concentration RSD	5.5 %	1.4 %	32.7 %	4.3 %	4.3 %	10.4 %	5.2 %	4.2 %	4.2 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	51.553 ppb	0.386 ppb	1.107 ppb	211.545 ppb	310.833 ppb	3.487 ppb	4.417 ppb	3.516 ppb	30.805 ppb
Concentration per Run 1	51.930 ppb	0.466 ppb	1.216 ppb	213.770 ppb	320.482 ppb	3.759 ppb	4.596 ppb	3.603 ppb	31.875 ppb
Concentration per Run 2	53.990 ppb	0.313 ppb	1.113 ppb	217.285 ppb	311.497 ppb	3.587 ppb	4.176 ppb	3.433 ppb	30.967 ppb
Concentration per Run 3	48.740 ppb	0.379 ppb	0.994 ppb	203.579 ppb	300.519 ppb	3.115 ppb	4.478 ppb	3.511 ppb	29.572 ppb
Concentration RSD	5.1 %	19.8 %	10.0 %	3.4 %	3.2 %	9.6 %	4.9 %	2.4 %	3.8 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	152.942 %	0.496 ppb	1.340 ppb	167.043 ppb	5.004 ppb	135.972 %	0.001 ppb	0.067 ppb	150.197 %
Concentration per Run 1	149.803 %	0.524 ppb	1.052 ppb	168.910 ppb	5.083 ppb	136.677 %	0.001 ppb	0.060 ppb	149.309 %
Concentration per Run 2	159.000 %	0.521 ppb	1.796 ppb	173.365 ppb	4.856 ppb	139.621 %	0.001 ppb	0.074 ppb	159.858 %
Concentration per Run 3	150.022 %	0.443 ppb	1.171 ppb	158.853 ppb	5.074 ppb	131.618 %	0.003 ppb	0.067 ppb	141.425 %
Concentration RSD	3.4 %	9.2 %	29.8 %	4.5 %	2.6 %	3.0 %	71.8 %	10.4 %	6.2 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.524 ppb	0.752 ppb	26.752 ppb	140.306 %	142.367 %	0.040 ppb	0.069 ppb	0.105 ppb	126.930 %
Concentration per Run 1	0.481 ppb	0.715 ppb	26.757 ppb	140.422 %	142.268 %	0.015 ppb	0.068 ppb	0.104 ppb	127.542 %
Concentration per Run 2	0.490 ppb	0.758 ppb	27.385 ppb	145.037 %	147.957 %	0.039 ppb	0.067 ppb	0.100 ppb	128.975 %
Concentration per Run 3	0.600 ppb	0.783 ppb	26.113 ppb	135.461 %	136.876 %	0.068 ppb	0.073 ppb	0.110 ppb	124.272 %
Concentration RSD	12.6 %	4.6 %	2.4 %	3.4 %	3.9 %	65.7 %	4.8 %	5.0 %	1.9 %

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Analysis index: 49
Analysis label: L2046790-04 6020SL
Analysis started at: 10/29/2020 11:22:04 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	152.615 %	174.167 %	0.000 ppb	54,688.501 ppb	3,267.369 ppb	3.561 ppb	4,062.807 ppb	38,422.645 ppb	159.853 %
Concentration per Run 1	155.189 %	177.297 %	-0.001 ppb	53,169.712 ppb	3,215.277 ppb	3.376 ppb	3,983.182 ppb	37,726.930 ppb	161.319 %
Concentration per Run 2	151.834 %	171.090 %	-0.004 ppb	56,138.809 ppb	3,318.188 ppb	3.060 ppb	4,109.293 ppb	38,701.886 ppb	160.145 %
Concentration per Run 3	150.822 %	174.114 %	0.005 ppb	54,756.983 ppb	3,268.644 ppb	4.246 ppb	4,095.947 ppb	38,839.117 ppb	158.095 %
Concentration RSD	1.5 %	1.8 %	2,163.8 %	2.7 %	1.6 %	17.3 %	1.7 %	1.6 %	1.0 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	54.292 ppb	0.079 ppb	0.612 ppb	70.379 ppb	8.934 ppb	1.307 ppb	3.076 ppb	1.597 ppb	61.405 ppb
Concentration per Run 1	51.849 ppb	0.085 ppb	0.660 ppb	69.258 ppb	8.142 ppb	1.300 ppb	3.313 ppb	1.570 ppb	60.524 ppb
Concentration per Run 2	55.100 ppb	0.077 ppb	0.604 ppb	71.050 ppb	7.979 ppb	1.372 ppb	3.071 ppb	1.587 ppb	61.616 ppb
Concentration per Run 3	55.928 ppb	0.077 ppb	0.572 ppb	70.828 ppb	10.682 ppb	1.249 ppb	2.843 ppb	1.635 ppb	62.077 ppb
Concentration RSD	4.0 %	5.8 %	7.3 %	1.4 %	17.0 %	4.7 %	7.6 %	2.1 %	1.3 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	151.350 %	0.171 ppb	0.457 ppb	204.480 ppb	1.562 ppb	135.077 %	-0.001 ppb	0.110 ppb	149.072 %
Concentration per Run 1	151.732 %	0.168 ppb	0.469 ppb	201.842 ppb	1.545 ppb	136.416 %	-0.001 ppb	0.098 ppb	149.645 %
Concentration per Run 2	151.711 %	0.162 ppb	0.219 ppb	205.464 ppb	1.460 ppb	134.259 %	-0.001 ppb	0.115 ppb	148.585 %
Concentration per Run 3	150.608 %	0.182 ppb	0.681 ppb	206.135 ppb	1.682 ppb	134.558 %	-0.001 ppb	0.117 ppb	148.985 %
Concentration RSD	0.4 %	6.0 %	50.6 %	1.1 %	7.2 %	0.9 %	48.5 %	9.5 %	0.4 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.477 ppb	0.719 ppb	24.466 ppb	139.601 %	141.425 %	0.035 ppb	0.055 ppb	0.020 ppb	126.373 %
Concentration per Run 1	0.445 ppb	0.739 ppb	24.274 ppb	140.928 %	143.920 %	0.003 ppb	0.051 ppb	0.017 ppb	126.652 %
Concentration per Run 2	0.475 ppb	0.703 ppb	25.145 ppb	139.756 %	141.153 %	0.038 ppb	0.056 ppb	0.019 ppb	126.901 %
Concentration per Run 3	0.513 ppb	0.716 ppb	23.980 ppb	138.120 %	139.200 %	0.065 ppb	0.059 ppb	0.022 ppb	125.566 %
Concentration RSD	7.2 %	2.6 %	2.5 %	1.0 %	1.7 %	88.1 %	7.1 %	12.6 %	0.6 %

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Analysis index: 50
Analysis label: L2046272-08 CT-6020SL
Analysis started at: 10/29/2020 11:27:09 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	126.410 %	149.232 %	0.170 ppb	11,729.268 ppb	9,861.898 ppb	2.636 ppb	4,908.765 ppb	46,166.090 ppb	145.374 %
Concentration per Run 1	136.535 %	158.994 %	0.157 ppb	11,178.640 ppb	9,416.978 ppb	2.283 ppb	4,696.184 ppb	44,777.111 ppb	153.972 %
Concentration per Run 2	123.429 %	141.486 %	0.175 ppb	12,182.900 ppb	10,241.837 ppb	2.960 ppb	5,044.218 ppb	47,311.376 ppb	140.254 %
Concentration per Run 3	119.267 %	147.216 %	0.179 ppb	11,826.264 ppb	9,926.878 ppb	2.665 ppb	4,985.894 ppb	46,409.784 ppb	141.895 %
Concentration RSD	7.1 %	6.0 %	7.0 %	4.3 %	4.2 %	12.9 %	3.8 %	2.8 %	5.2 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	65.774 ppb	0.041 ppb	0.147 ppb	1,189.833 ppb	26,374.579 ppb	5.384 ppb	2.544 ppb	0.162 ppb	9.288 ppb
Concentration per Run 1	63.327 ppb	0.007 ppb	0.153 ppb	1,172.641 ppb	26,420.057 ppb	5.211 ppb	2.541 ppb	0.132 ppb	9.445 ppb
Concentration per Run 2	66.589 ppb	0.023 ppb	0.159 ppb	1,206.374 ppb	26,480.318 ppb	5.468 ppb	2.731 ppb	0.200 ppb	9.316 ppb
Concentration per Run 3	67.406 ppb	0.094 ppb	0.130 ppb	1,190.484 ppb	26,223.361 ppb	5.472 ppb	2.359 ppb	0.154 ppb	9.102 ppb
Concentration RSD	3.3 %	112.2 %	10.4 %	1.4 %	0.5 %	2.8 %	7.3 %	21.6 %	1.9 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	130.435 %	0.575 ppb	-0.053 ppb	169.214 ppb	0.357 ppb	120.966 %	0.002 ppb	0.011 ppb	134.220 %
Concentration per Run 1	129.922 %	0.611 ppb	-0.097 ppb	170.619 ppb	0.355 ppb	120.762 %	0.002 ppb	0.009 ppb	133.758 %
Concentration per Run 2	131.447 %	0.618 ppb	-0.018 ppb	168.382 ppb	0.363 ppb	120.350 %	0.002 ppb	0.014 ppb	132.876 %
Concentration per Run 3	129.937 %	0.497 ppb	-0.044 ppb	168.642 ppb	0.352 ppb	121.785 %	0.001 ppb	0.011 ppb	136.028 %
Concentration RSD	0.7 %	11.9 %	75.7 %	0.7 %	1.6 %	0.6 %	30.1 %	20.4 %	1.2 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.220 ppb	0.179 ppb	51.284 ppb	128.321 %	131.566 %	0.029 ppb	0.034 ppb	0.020 ppb	121.833 %
Concentration per Run 1	0.145 ppb	0.173 ppb	51.107 ppb	127.833 %	130.970 %	0.022 ppb	0.030 ppb	0.017 ppb	121.200 %
Concentration per Run 2	0.258 ppb	0.176 ppb	50.636 ppb	128.257 %	131.842 %	0.025 ppb	0.035 ppb	0.019 ppb	121.558 %
Concentration per Run 3	0.256 ppb	0.187 ppb	52.111 ppb	128.871 %	131.887 %	0.041 ppb	0.038 ppb	0.025 ppb	122.742 %
Concentration RSD	29.3 %	4.2 %	1.5 %	0.4 %	0.4 %	34.4 %	12.3 %	18.8 %	0.7 %

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Analysis index: 51
Analysis label: L2046625-02D50 6020SL
Analysis started at: 10/29/2020 11:32:13 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	120.814 %	146.208 %	-0.002 ppb	10,357.478 ppb	874.618 ppb	-0.026 ppb	177.711 ppb	1,270.273 ppb	123.559 %
Concentration per Run 1	128.669 %	150.081 %	-0.003 ppb	10,512.888 ppb	913.028 ppb	-0.085 ppb	172.775 ppb	1,318.799 ppb	130.318 %
Concentration per Run 2	117.608 %	146.102 %	-0.001 ppb	9,979.544 ppb	819.616 ppb	0.017 ppb	171.603 ppb	1,194.502 ppb	120.262 %
Concentration per Run 3	116.165 %	142.441 %	-0.003 ppb	10,580.001 ppb	891.209 ppb	-0.010 ppb	188.756 ppb	1,297.519 ppb	120.098 %
Concentration RSD	5.7 %	2.6 %	47.6 %	3.2 %	5.6 %	202.0 %	5.4 %	5.2 %	4.7 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	1.913 ppb	-0.019 ppb	0.010 ppb	14.549 ppb	46.774 ppb	0.089 ppb	0.081 ppb	-0.011 ppb	0.135 ppb
Concentration per Run 1	2.241 ppb	0.033 ppb	0.014 ppb	15.762 ppb	43.480 ppb	0.101 ppb	0.069 ppb	-0.019 ppb	0.147 ppb
Concentration per Run 2	1.719 ppb	-0.074 ppb	-0.011 ppb	13.343 ppb	46.894 ppb	0.072 ppb	0.079 ppb	-0.012 ppb	0.073 ppb
Concentration per Run 3	1.780 ppb	-0.014 ppb	0.026 ppb	14.542 ppb	49.946 ppb	0.096 ppb	0.096 ppb	-0.001 ppb	0.185 ppb
Concentration RSD	14.9 %	290.2 %	191.1 %	8.3 %	6.9 %	17.1 %	16.7 %	82.0 %	42.0 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	133.496 %	0.009 ppb	0.100 ppb	8.657 ppb	0.281 ppb	123.193 %	0.001 ppb	0.002 ppb	135.081 %
Concentration per Run 1	129.787 %	0.011 ppb	0.009 ppb	8.963 ppb	0.376 ppb	122.822 %	0.000 ppb	0.007 ppb	134.272 %
Concentration per Run 2	136.920 %	0.001 ppb	0.078 ppb	8.162 ppb	0.258 ppb	126.420 %	-0.001 ppb	0.000 ppb	136.044 %
Concentration per Run 3	133.781 %	0.016 ppb	0.213 ppb	8.846 ppb	0.210 ppb	120.338 %	0.002 ppb	0.000 ppb	134.925 %
Concentration RSD	2.7 %	81.7 %	103.6 %	5.0 %	30.3 %	2.5 %	236.3 %	173.2 %	0.7 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.222 ppb	0.111 ppb	1.962 ppb	128.440 %	131.955 %	-0.039 ppb	0.020 ppb	0.024 ppb	124.431 %
Concentration per Run 1	0.209 ppb	0.119 ppb	2.074 ppb	127.193 %	130.149 %	-0.049 ppb	0.019 ppb	0.028 ppb	123.877 %
Concentration per Run 2	0.261 ppb	0.096 ppb	1.770 ppb	131.363 %	135.820 %	-0.056 ppb	0.020 ppb	0.021 ppb	126.536 %
Concentration per Run 3	0.197 ppb	0.117 ppb	2.041 ppb	126.763 %	129.896 %	-0.013 ppb	0.020 ppb	0.023 ppb	122.881 %
Concentration RSD	15.3 %	11.2 %	8.5 %	2.0 %	2.5 %	57.8 %	3.7 %	15.6 %	1.5 %

Analysis index:	52	Analysis started at:	10/29/2020 11:37:18 AM
Analysis label:	XCCV	User name:	ALPHALAB\Metals-Instrument

Analysis index:	53	Analysis started at:	10/29/2020 11:42:27 AM
Analysis label:	XCCB	User name:	ALPHALAB\Metals-Instrument

Analysis index: 54 Analysis started at: 10/29/2020 11:48:02 AM
Analysis label: CCV User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	123.779 %	138.516 %	60.760 ppb	6,072.021 ppb	6,105.004 ppb	64.295 ppb	6,317.866 ppb	6,070.356 ppb	136.597 %
Concentration per Run 1	133.049 %	137.030 %	53.928 ppb	6,231.533 ppb	6,312.502 ppb	65.742 ppb	6,469.610 ppb	6,132.880 ppb	143.710 %
Concentration per Run 2	122.066 %	142.282 %	60.866 ppb	5,863.478 ppb	5,980.911 ppb	64.609 ppb	6,211.568 ppb	5,933.982 ppb	133.517 %
Concentration per Run 3	116.221 %	136.234 %	67.485 ppb	6,121.051 ppb	6,021.598 ppb	62.533 ppb	6,272.418 ppb	6,144.206 ppb	132.564 %
Recovery Percentage 1			101.266 %	101.200 %	101.750 %	107.158 %	105.298 %	101.173 %	
Concentration RSD	6.9 %	2.4 %	11.2 %	3.1 %	3.0 %	2.5 %	2.1 %	1.9 %	4.5 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	59.542 ppb	58.046 ppb	56.886 ppb	59.922 ppb	5,952.646 ppb	56.938 ppb	57.485 ppb	56.428 ppb	58.277 ppb
Concentration per Run 1	61.051 ppb	59.876 ppb	58.122 ppb	63.467 ppb	6,136.809 ppb	58.933 ppb	58.760 ppb	57.587 ppb	59.934 ppb
Concentration per Run 2	58.293 ppb	57.141 ppb	56.828 ppb	57.729 ppb	5,935.025 ppb	55.412 ppb	57.477 ppb	56.019 ppb	57.846 ppb
Concentration per Run 3	59.283 ppb	57.122 ppb	55.709 ppb	58.571 ppb	5,786.104 ppb	56.469 ppb	56.219 ppb	55.678 ppb	57.050 ppb
Recovery Percentage 1	99.237 %	96.744 %	94.811 %	99.871 %	99.211 %	94.897 %	95.809 %	94.047 %	97.128 %
Concentration RSD	2.3 %	2.7 %	2.1 %	5.2 %	3.0 %	3.2 %	2.2 %	1.8 %	2.6 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	130.750 %	59.469 ppb	61.561 ppb	61.737 ppb	58.137 ppb	124.201 %	57.843 ppb	58.102 ppb	135.165 %
Concentration per Run 1	129.212 %	61.356 ppb	62.511 ppb	64.220 ppb	60.061 ppb	123.518 %	58.569 ppb	59.052 ppb	135.944 %
Concentration per Run 2	131.276 %	58.659 ppb	62.040 ppb	60.561 ppb	57.554 ppb	124.038 %	57.826 ppb	57.274 ppb	133.109 %
Concentration per Run 3	131.763 %	58.391 ppb	60.132 ppb	60.430 ppb	56.796 ppb	125.046 %	57.135 ppb	57.981 ppb	136.441 %
Recovery Percentage 1		99.115 %	102.601 %	102.896 %	96.895 %		96.405 %	96.837 %	
Concentration RSD	1.0 %	2.8 %	2.0 %	3.5 %	2.9 %	0.6 %	1.2 %	1.5 %	1.3 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.479 ppb	58.824 ppb	60.500 ppb	129.902 %	134.524 %	55.837 ppb	58.459 ppb	58.555 ppb	124.730 %
Concentration per Run 1	60.106 ppb	60.026 ppb	61.894 ppb	129.808 %	135.209 %	57.207 ppb	59.277 ppb	59.747 ppb	124.493 %
Concentration per Run 2	58.227 ppb	58.233 ppb	59.161 ppb	128.288 %	132.381 %	55.946 ppb	58.433 ppb	58.037 ppb	124.015 %
Concentration per Run 3	57.106 ppb	58.211 ppb	60.445 ppb	131.609 %	135.983 %	54.358 ppb	57.669 ppb	57.881 ppb	125.681 %
Recovery Percentage 1	97.466 %	98.039 %	100.833 %			93.062 %	97.432 %	97.592 %	
Concentration RSD	2.6 %	1.8 %	2.3 %	1.3 %	1.4 %	2.6 %	1.4 %	1.8 %	0.7 %

Alpha ICPMSQ Full

10/29/2020 9:29:56 PM

Analysis index: 55 Analysis started at: 10/29/2020 11:53:11 AM
Analysis label: CCB User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	119.567 %	131.778 %	0.002 ppb	-3.525 ppb	0.133 ppb	0.045 ppb	-0.129 ppb	4.378 ppb	120.869 %
Concentration per Run 1	123.033 %	141.486 %	0.001 ppb	-3.147 ppb	-0.107 ppb	0.009 ppb	0.088 ppb	4.070 ppb	121.508 %
Concentration per Run 2	119.453 %	120.160 %	-0.001 ppb	-3.428 ppb	0.600 ppb	-0.147 ppb	-0.240 ppb	3.441 ppb	121.313 %
Concentration per Run 3	116.215 %	133.688 %	0.006 ppb	-4.002 ppb	-0.093 ppb	0.272 ppb	-0.235 ppb	5.622 ppb	119.785 %
Recovery Percentage 1			0.360 %	-3.525 %	0.190 %	0.448 %	-0.129 %	4.378 %	
Concentration RSD	2.9 %	8.2 %	216.3 %	12.4 %	303.4 %	472.5 %	145.6 %	25.6 %	0.8 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.281 ppb	-0.016 ppb	-0.005 ppb	0.020 ppb	29.666 ppb	0.004 ppb	-0.004 ppb	0.014 ppb	-0.019 ppb
Concentration per Run 1	0.295 ppb	-0.011 ppb	-0.001 ppb	0.017 ppb	26.313 ppb	0.000 ppb	-0.001 ppb	0.032 ppb	-0.097 ppb
Concentration per Run 2	0.317 ppb	-0.028 ppb	-0.011 ppb	0.038 ppb	33.964 ppb	0.004 ppb	0.004 ppb	-0.035 ppb	-0.067 ppb
Concentration per Run 3	0.231 ppb	-0.008 ppb	-0.004 ppb	0.004 ppb	28.720 ppb	0.008 ppb	-0.014 ppb	0.045 ppb	0.107 ppb
Recovery Percentage 1	56.201 %	-0.315 %	-0.509 %	2.004 %	59.331 %	0.818 %	-0.182 %	1.398 %	-0.190 %
Concentration RSD	15.8 %	69.9 %	99.5 %	84.6 %	13.2 %	97.7 %	265.3 %	304.6 %	581.5 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	121.702 %	0.065 ppb	0.279 ppb	0.004 ppb	0.798 ppb	115.131 %	0.001 ppb	0.000 ppb	124.870 %
Concentration per Run 1	126.481 %	0.101 ppb	0.313 ppb	0.004 ppb	0.743 ppb	115.483 %	0.000 ppb	0.000 ppb	130.383 %
Concentration per Run 2	115.706 %	0.034 ppb	0.143 ppb	0.003 ppb	0.813 ppb	113.468 %	0.001 ppb	0.000 ppb	117.489 %
Concentration per Run 3	122.918 %	0.059 ppb	0.380 ppb	0.005 ppb	0.838 ppb	116.443 %	0.002 ppb	0.000 ppb	126.739 %
Recovery Percentage 1		12.903 %	5.572 %	0.822 %	39.896 %		0.329 %	0.000 %	
Concentration RSD	4.5 %	52.2 %	43.9 %	16.0 %	6.2 %	1.3 %	69.5 %	N/A	5.3 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.849 ppb	0.090 ppb	0.024 ppb	119.318 %	123.118 %	1.071 ppb	0.324 ppb	0.035 ppb	119.211 %
Concentration per Run 1	0.796 ppb	0.076 ppb	0.009 ppb	121.686 %	127.142 %	0.899 ppb	0.320 ppb	0.035 ppb	121.029 %
Concentration per Run 2	0.866 ppb	0.101 ppb	0.028 ppb	115.622 %	116.912 %	1.219 ppb	0.353 ppb	0.033 ppb	114.832 %
Concentration per Run 3	0.883 ppb	0.092 ppb	0.034 ppb	120.646 %	125.299 %	1.093 ppb	0.300 ppb	0.037 ppb	121.773 %
Recovery Percentage 1	28.286 %	2.242 %	4.766 %			53.530 %	64.882 %	3.521 %	
Concentration RSD	5.4 %	14.2 %	54.5 %	2.7 %	4.4 %	15.1 %	8.2 %	5.7 %	3.2 %

Alpha ICPMSQ Full

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Analysis index: 56
Analysis label: WG1427631-3D20 6020TL
Analysis started at: 10/29/2020 11:58:20 AM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	125.656 %	153.529 %	2.666 ppb	87,851.967 ppb	6,217.953 ppb	107.299 ppb	3,962.776 ppb	5,481.141 ppb	127.627 %
Concentration per Run 1	134.028 %	155.651 %	2.310 ppb	86,032.585 ppb	6,039.997 ppb	103.545 ppb	3,968.694 ppb	5,411.638 ppb	135.198 %
Concentration per Run 2	127.424 %	151.672 %	2.435 ppb	88,085.527 ppb	6,326.122 ppb	109.360 ppb	3,998.125 ppb	5,523.837 ppb	130.010 %
Concentration per Run 3	115.516 %	153.264 %	3.254 ppb	89,437.789 ppb	6,287.742 ppb	108.993 ppb	3,921.510 ppb	5,507.949 ppb	117.673 %
Concentration RSD	7.5 %	1.3 %	19.2 %	2.0 %	2.5 %	3.0 %	1.0 %	1.1 %	7.1 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	47.307 ppb	21.915 ppb	8.796 ppb	27.602 ppb	89.394 ppb	22.613 ppb	21.795 ppb	11.878 ppb	28.527 ppb
Concentration per Run 1	46.956 ppb	21.005 ppb	8.746 ppb	27.153 ppb	75.121 ppb	21.529 ppb	21.237 ppb	11.438 ppb	27.648 ppb
Concentration per Run 2	47.113 ppb	22.502 ppb	8.758 ppb	27.741 ppb	98.349 ppb	23.534 ppb	22.162 ppb	11.765 ppb	29.063 ppb
Concentration per Run 3	47.851 ppb	22.237 ppb	8.883 ppb	27.912 ppb	94.711 ppb	22.776 ppb	21.988 ppb	12.430 ppb	28.870 ppb
Concentration RSD	1.0 %	3.6 %	0.9 %	1.4 %	14.0 %	4.5 %	2.3 %	4.3 %	2.7 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	137.983 %	6.114 ppb	6.272 ppb	123.214 ppb	47.238 ppb	126.316 %	2.383 ppb	2.544 ppb	138.586 %
Concentration per Run 1	138.757 %	5.967 ppb	5.547 ppb	124.291 ppb	47.538 ppb	126.868 %	2.359 ppb	2.442 ppb	139.948 %
Concentration per Run 2	135.254 %	6.278 ppb	6.755 ppb	123.195 ppb	47.113 ppb	125.078 %	2.433 ppb	2.516 ppb	137.299 %
Concentration per Run 3	139.937 %	6.097 ppb	6.516 ppb	122.155 ppb	47.063 ppb	127.003 %	2.358 ppb	2.676 ppb	138.512 %
Concentration RSD	1.8 %	2.6 %	10.2 %	0.9 %	0.6 %	0.9 %	1.8 %	4.7 %	1.0 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	44.460 ppb	25.422 ppb	98.797 ppb	134.220 %	137.653 %	0.367 ppb	5.843 ppb	26.251 ppb	121.465 %
Concentration per Run 1	43.804 ppb	25.167 ppb	98.408 ppb	133.661 %	138.385 %	0.253 ppb	5.744 ppb	25.732 ppb	121.376 %
Concentration per Run 2	44.895 ppb	25.377 ppb	99.802 ppb	133.969 %	137.134 %	0.380 ppb	5.874 ppb	26.696 ppb	120.366 %
Concentration per Run 3	44.681 ppb	25.722 ppb	98.183 ppb	135.030 %	137.440 %	0.467 ppb	5.912 ppb	26.326 ppb	122.654 %
Concentration RSD	1.3 %	1.1 %	0.9 %	0.5 %	0.5 %	29.4 %	1.5 %	1.9 %	0.9 %

Alpha ICPMSQ Full

10/29/2020 9:29:56 PM

Analysis index: 57
Analysis label: WG1427631-5D20 6020TL
Analysis started at: 10/29/2020 12:03:25 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	136.065 %	156.606 %	49.111 ppb	100,613.537 ppb	11,366.688 ppb	58.844 ppb	9,019.427 ppb	10,733.262 ppb	146.710 %
Concentration per Run 1	142.481 %	155.174 %	44.281 ppb	101,664.669 ppb	11,439.176 ppb	56.918 ppb	8,904.230 ppb	10,569.731 ppb	149.936 %
Concentration per Run 2	134.498 %	159.312 %	49.771 ppb	99,342.700 ppb	11,129.925 ppb	59.292 ppb	9,101.871 ppb	10,667.365 ppb	145.857 %
Concentration per Run 3	131.216 %	155.333 %	53.282 ppb	100,833.241 ppb	11,530.963 ppb	60.323 ppb	9,052.181 ppb	10,962.691 ppb	144.335 %
Concentration RSD	4.3 %	1.5 %	9.2 %	1.2 %	1.8 %	3.0 %	1.1 %	1.9 %	2.0 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	56.762 ppb	49.856 ppb	47.123 ppb	55.542 ppb	5,021.254 ppb	48.416 ppb	47.889 ppb	48.368 ppb	51.002 ppb
Concentration per Run 1	56.921 ppb	50.247 ppb	47.086 ppb	55.402 ppb	5,032.922 ppb	48.846 ppb	47.802 ppb	48.322 ppb	51.461 ppb
Concentration per Run 2	57.061 ppb	49.172 ppb	47.389 ppb	56.084 ppb	4,997.736 ppb	47.553 ppb	47.628 ppb	47.392 ppb	50.776 ppb
Concentration per Run 3	56.305 ppb	50.150 ppb	46.894 ppb	55.140 ppb	5,033.105 ppb	48.850 ppb	48.238 ppb	49.390 ppb	50.769 ppb
Concentration RSD	0.7 %	1.2 %	0.5 %	0.9 %	0.4 %	1.5 %	0.7 %	2.1 %	0.8 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	134.992 %	51.987 ppb	51.875 ppb	134.116 ppb	53.850 ppb	122.229 %	1.223 ppb	49.670 ppb	135.354 %
Concentration per Run 1	132.161 %	51.628 ppb	51.087 ppb	132.224 ppb	54.054 ppb	121.613 %	1.216 ppb	50.080 ppb	132.898 %
Concentration per Run 2	135.912 %	52.103 ppb	52.321 ppb	134.297 ppb	53.383 ppb	123.482 %	1.222 ppb	49.392 ppb	136.629 %
Concentration per Run 3	136.904 %	52.231 ppb	52.216 ppb	135.827 ppb	54.111 ppb	121.592 %	1.231 ppb	49.540 ppb	136.533 %
Concentration RSD	1.9 %	0.6 %	1.3 %	1.3 %	0.8 %	0.9 %	0.6 %	0.7 %	1.6 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	50.337 ppb	53.570 ppb	54.251 ppb	132.670 %	136.476 %	42.625 ppb	50.472 ppb	52.054 ppb	120.238 %
Concentration per Run 1	50.226 ppb	53.751 ppb	54.047 ppb	130.379 %	133.462 %	43.664 ppb	50.666 ppb	52.502 ppb	119.073 %
Concentration per Run 2	50.039 ppb	53.430 ppb	54.214 ppb	133.715 %	137.185 %	42.244 ppb	50.319 ppb	51.891 ppb	119.668 %
Concentration per Run 3	50.746 ppb	53.531 ppb	54.493 ppb	133.917 %	138.781 %	41.967 ppb	50.431 ppb	51.768 ppb	121.971 %
Concentration RSD	0.7 %	0.3 %	0.4 %	1.5 %	2.0 %	2.1 %	0.4 %	0.8 %	1.3 %

Alpha ICPMSQ Full

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Analysis index: 58
Analysis label: WG1427631-4D5 6020TL
Analysis started at: 10/29/2020 12:08:31 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	162.905 %	183.716 %	0.006 ppb	393,853.360 ppb	24,873.513 ppb	25.817 ppb	14,593.117 ppb	21,215.116 ppb	171.079 %
Concentration per Run 1	168.486 %	174.591 %	0.002 ppb	383,471.621 ppb	24,007.213 ppb	25.588 ppb	13,917.692 ppb	20,603.940 ppb	172.037 %
Concentration per Run 2	161.947 %	188.279 %	0.009 ppb	394,484.029 ppb	25,193.991 ppb	26.208 ppb	14,846.533 ppb	21,329.488 ppb	170.421 %
Concentration per Run 3	158.281 %	188.279 %	0.008 ppb	403,604.431 ppb	25,419.336 ppb	25.654 ppb	15,015.125 ppb	21,711.921 ppb	170.781 %
Concentration RSD	3.2 %	4.3 %	66.3 %	2.6 %	3.1 %	1.3 %	4.0 %	2.7 %	0.5 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	29.935 ppb	0.127 ppb	0.100 ppb	20.468 ppb	174.566 ppb	0.095 ppb	0.222 ppb	1.321 ppb	3.042 ppb
Concentration per Run 1	28.743 ppb	0.178 ppb	0.101 ppb	19.830 ppb	164.234 ppb	0.097 ppb	0.288 ppb	1.333 ppb	3.191 ppb
Concentration per Run 2	30.550 ppb	0.088 ppb	0.113 ppb	20.564 ppb	168.738 ppb	0.086 ppb	0.214 ppb	1.411 ppb	2.985 ppb
Concentration per Run 3	30.513 ppb	0.115 ppb	0.086 ppb	21.010 ppb	190.728 ppb	0.103 ppb	0.164 ppb	1.218 ppb	2.951 ppb
Concentration RSD	3.5 %	36.4 %	13.7 %	2.9 %	8.1 %	9.1 %	28.0 %	7.3 %	4.3 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	152.068 %	0.518 ppb	0.223 ppb	318.730 ppb	3.287 ppb	131.280 %	0.004 ppb	0.001 ppb	143.279 %
Concentration per Run 1	142.657 %	0.501 ppb	0.095 ppb	312.255 ppb	3.100 ppb	126.969 %	0.006 ppb	0.002 ppb	134.504 %
Concentration per Run 2	155.497 %	0.433 ppb	0.235 ppb	322.014 ppb	3.329 ppb	133.542 %	0.001 ppb	0.000 ppb	147.549 %
Concentration per Run 3	158.051 %	0.620 ppb	0.340 ppb	321.922 ppb	3.433 ppb	133.328 %	0.006 ppb	0.000 ppb	147.783 %
Concentration RSD	5.4 %	18.3 %	55.0 %	1.8 %	5.2 %	2.8 %	69.0 %	173.2 %	5.3 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.209 ppb	0.235 ppb	7.848 ppb	142.357 %	142.216 %	1.329 ppb	0.517 ppb	0.224 ppb	113.088 %
Concentration per Run 1	1.183 ppb	0.225 ppb	7.784 ppb	138.331 %	135.761 %	1.106 ppb	0.538 ppb	0.224 ppb	109.468 %
Concentration per Run 2	1.171 ppb	0.258 ppb	7.773 ppb	144.741 %	145.455 %	1.331 ppb	0.514 ppb	0.215 ppb	114.630 %
Concentration per Run 3	1.275 ppb	0.222 ppb	7.988 ppb	143.999 %	145.433 %	1.549 ppb	0.500 ppb	0.233 ppb	115.165 %
Concentration RSD	4.7 %	8.7 %	1.5 %	2.5 %	3.9 %	16.7 %	3.7 %	4.1 %	2.8 %

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Analysis label: L2046201-01D5 6020TL
Analysis started at: 10/29/2020 12:13:37 PM
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Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	186.582 %	210.190 %	0.003 ppb	393,177.048 ppb	24,906.157 ppb	22.269 ppb	14,593.508 ppb	21,105.650 ppb	195.727 %
Concentration per Run 1	194.542 %	208.651 %	0.002 ppb	385,919.785 ppb	24,396.201 ppb	22.818 ppb	14,243.381 ppb	20,572.367 ppb	199.769 %
Concentration per Run 2	184.731 %	211.994 %	0.004 ppb	398,216.927 ppb	25,152.851 ppb	23.055 ppb	14,941.542 ppb	21,701.101 ppb	196.202 %
Concentration per Run 3	180.473 %	209.924 %	0.003 ppb	395,394.433 ppb	25,169.419 ppb	20.935 ppb	14,595.602 ppb	21,043.482 ppb	191.209 %
Concentration RSD	3.9 %	0.8 %	22.8 %	1.6 %	1.8 %	5.2 %	2.4 %	2.7 %	2.2 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	29.362 ppb	0.068 ppb	0.083 ppb	20.629 ppb	157.239 ppb	0.080 ppb	0.828 ppb	1.408 ppb	3.368 ppb
Concentration per Run 1	29.205 ppb	0.124 ppb	0.077 ppb	20.574 ppb	143.950 ppb	0.106 ppb	0.867 ppb	1.463 ppb	3.459 ppb
Concentration per Run 2	30.682 ppb	0.046 ppb	0.099 ppb	21.139 ppb	167.131 ppb	0.063 ppb	0.765 ppb	1.372 ppb	3.297 ppb
Concentration per Run 3	28.198 ppb	0.035 ppb	0.073 ppb	20.173 ppb	160.635 ppb	0.072 ppb	0.852 ppb	1.390 ppb	3.347 ppb
Concentration RSD	4.3 %	71.0 %	16.7 %	2.4 %	7.6 %	28.0 %	6.7 %	3.4 %	2.5 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	165.091 %	0.443 ppb	0.129 ppb	323.730 ppb	2.321 ppb	138.685 %	0.003 ppb	0.002 ppb	150.563 %
Concentration per Run 1	159.498 %	0.414 ppb	0.051 ppb	321.230 ppb	2.181 ppb	139.866 %	0.002 ppb	0.000 ppb	149.553 %
Concentration per Run 2	164.923 %	0.519 ppb	0.152 ppb	332.053 ppb	2.400 ppb	136.027 %	0.002 ppb	0.002 ppb	149.791 %
Concentration per Run 3	170.851 %	0.396 ppb	0.184 ppb	317.906 ppb	2.382 ppb	140.160 %	0.005 ppb	0.004 ppb	152.343 %
Concentration RSD	3.4 %	15.0 %	53.9 %	2.3 %	5.2 %	1.7 %	53.8 %	99.3 %	1.0 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.563 ppb	0.207 ppb	8.009 ppb	146.255 %	146.624 %	0.480 ppb	0.175 ppb	0.207 ppb	116.460 %
Concentration per Run 1	0.405 ppb	0.220 ppb	7.709 ppb	147.514 %	146.449 %	0.376 ppb	0.156 ppb	0.214 ppb	117.020 %
Concentration per Run 2	0.683 ppb	0.190 ppb	8.379 ppb	143.159 %	145.362 %	0.521 ppb	0.183 ppb	0.204 ppb	115.218 %
Concentration per Run 3	0.600 ppb	0.211 ppb	7.940 ppb	148.093 %	148.062 %	0.543 ppb	0.188 ppb	0.204 ppb	117.141 %
Concentration RSD	25.3 %	7.6 %	4.2 %	1.8 %	0.9 %	18.9 %	9.8 %	2.8 %	0.9 %

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Analysis index: 60
Analysis label: L2046625-01 6020TL
Analysis started at: 10/29/2020 12:18:43 PM
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Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	146.818 %	164.511 %	0.696 ppb	152,852.988 ppb	125,282.874 ppb	3,256.266 ppb	16,916.442 ppb	320,528.447 ppb	190.652 %
Concentration per Run 1	153.733 %	169.657 %	0.611 ppb	146,688.106 ppb	119,561.488 ppb	3,103.866 ppb	16,237.720 ppb	308,561.231 ppb	186.957 %
Concentration per Run 2	151.152 %	167.588 %	0.686 ppb	150,232.409 ppb	122,890.137 ppb	3,188.339 ppb	16,779.770 ppb	314,954.508 ppb	188.442 %
Concentration per Run 3	135.568 %	156.288 %	0.791 ppb	161,638.449 ppb	133,396.998 ppb	3,476.591 ppb	17,731.837 ppb	338,069.601 ppb	196.557 %
Concentration RSD	6.7 %	4.4 %	13.0 %	5.1 %	5.8 %	6.0 %	4.5 %	4.8 %	2.7 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	556.534 ppb	13.039 ppb	8.569 ppb	7,095.897 ppb	134,442.339 ppb	5.337 ppb	15.705 ppb	16.954 ppb	55.393 ppb
Concentration per Run 1	532.424 ppb	12.444 ppb	8.206 ppb	6,816.742 ppb	130,095.064 ppb	5.122 ppb	15.212 ppb	16.528 ppb	54.848 ppb
Concentration per Run 2	548.867 ppb	12.862 ppb	8.416 ppb	7,018.210 ppb	131,891.682 ppb	5.154 ppb	15.579 ppb	16.557 ppb	53.420 ppb
Concentration per Run 3	588.311 ppb	13.810 ppb	9.085 ppb	7,452.738 ppb	141,340.270 ppb	5.737 ppb	16.325 ppb	17.778 ppb	57.912 ppb
Concentration RSD	5.2 %	5.4 %	5.4 %	4.6 %	4.5 %	6.5 %	3.6 %	4.2 %	4.1 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	134.881 %	2.117 ppb	0.348 ppb	2,441.437 ppb	2.755 ppb	118.739 %	0.031 ppb	0.090 ppb	134.136 %
Concentration per Run 1	135.323 %	2.139 ppb	0.389 ppb	2,351.143 ppb	2.567 ppb	120.331 %	0.032 ppb	0.078 ppb	134.713 %
Concentration per Run 2	138.889 %	2.004 ppb	0.302 ppb	2,392.339 ppb	2.738 ppb	120.943 %	0.034 ppb	0.107 ppb	138.079 %
Concentration per Run 3	130.429 %	2.207 ppb	0.355 ppb	2,580.830 ppb	2.960 ppb	114.943 %	0.027 ppb	0.086 ppb	129.617 %
Concentration RSD	3.1 %	4.9 %	12.6 %	5.0 %	7.2 %	2.8 %	12.1 %	16.7 %	3.2 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.469 ppb	0.169 ppb	241.226 ppb	121.279 %	120.437 %	0.982 ppb	0.170 ppb	76.496 ppb	105.756 %
Concentration per Run 1	1.337 ppb	0.159 ppb	231.626 ppb	122.254 %	120.817 %	0.887 ppb	0.153 ppb	73.829 ppb	107.049 %
Concentration per Run 2	1.418 ppb	0.145 ppb	236.176 ppb	125.261 %	124.302 %	0.947 ppb	0.169 ppb	75.175 ppb	108.237 %
Concentration per Run 3	1.652 ppb	0.204 ppb	255.876 ppb	116.322 %	116.191 %	1.111 ppb	0.187 ppb	80.483 ppb	101.984 %
Concentration RSD	11.1 %	18.4 %	5.3 %	3.8 %	3.4 %	11.8 %	9.9 %	4.6 %	3.1 %

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Analysis label: L2046625-02 6020TL
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Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	172.613 %	199.738 %	1.764 ppb	620,699.692 ppb	113,807.866 ppb	27,721.440 ppb	17,979.271 ppb	301,159.715 ppb	184.725 %
Concentration per Run 1	176.021 %	195.122 %	1.663 ppb	609,203.941 ppb	112,521.921 ppb	27,138.310 ppb	17,510.991 ppb	298,883.029 ppb	185.573 %
Concentration per Run 2	172.522 %	189.711 %	1.790 ppb	644,394.713 ppb	117,760.452 ppb	28,348.941 ppb	18,284.961 ppb	304,542.236 ppb	185.030 %
Concentration per Run 3	169.296 %	214.381 %	1.838 ppb	608,500.421 ppb	111,141.225 ppb	27,677.071 ppb	18,141.862 ppb	300,053.880 ppb	183.571 %
Concentration RSD	1.9 %	6.5 %	5.1 %	3.3 %	3.1 %	2.2 %	2.3 %	1.0 %	0.6 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	1,405.219 ppb	190.779 ppb	47.658 ppb	3,187.608 ppb	36,534.548 ppb	71.788 ppb	65.969 ppb	126.170 ppb	2,227.800 ppb
Concentration per Run 1	1,392.587 ppb	191.178 ppb	48.377 ppb	3,147.896 ppb	36,951.689 ppb	73.315 ppb	65.376 ppb	127.497 ppb	2,253.208 ppb
Concentration per Run 2	1,433.684 ppb	192.291 ppb	48.399 ppb	3,232.787 ppb	37,011.517 ppb	72.220 ppb	67.669 ppb	127.619 ppb	2,237.542 ppb
Concentration per Run 3	1,389.388 ppb	188.869 ppb	46.197 ppb	3,182.141 ppb	35,640.436 ppb	69.827 ppb	64.862 ppb	123.395 ppb	2,192.649 ppb
Concentration RSD	1.8 %	0.9 %	2.7 %	1.3 %	2.1 %	2.5 %	2.3 %	1.9 %	1.4 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	155.045 %	9.370 ppb	6.445 ppb	1,332.602 ppb	6.019 ppb	125.931 %	0.178 ppb	2.314 ppb	143.998 %
Concentration per Run 1	149.424 %	9.813 ppb	6.232 ppb	1,329.406 ppb	5.989 ppb	124.134 %	0.174 ppb	2.419 ppb	138.702 %
Concentration per Run 2	154.530 %	9.348 ppb	6.103 ppb	1,336.376 ppb	6.159 ppb	126.024 %	0.187 ppb	2.218 ppb	144.439 %
Concentration per Run 3	161.179 %	8.950 ppb	6.999 ppb	1,332.023 ppb	5.910 ppb	127.634 %	0.173 ppb	2.304 ppb	148.852 %
Concentration RSD	3.8 %	4.6 %	7.5 %	0.3 %	2.1 %	1.4 %	4.4 %	4.4 %	3.5 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.550 ppb	0.733 ppb	5,348.399 ppb	121.743 %	117.040 %	1.973 ppb	0.542 ppb	3,501.122 ppb	101.400 %
Concentration per Run 1	1.568 ppb	0.748 ppb	5,341.586 ppb	120.044 %	114.515 %	1.969 ppb	0.562 ppb	3,521.512 ppb	100.311 %
Concentration per Run 2	1.609 ppb	0.690 ppb	5,327.223 ppb	122.013 %	117.007 %	1.969 ppb	0.535 ppb	3,516.822 ppb	100.950 %
Concentration per Run 3	1.473 ppb	0.761 ppb	5,376.389 ppb	123.173 %	119.600 %	1.981 ppb	0.529 ppb	3,465.031 ppb	102.940 %
Concentration RSD	4.5 %	5.2 %	0.5 %	1.3 %	2.2 %	0.4 %	3.2 %	0.9 %	1.4 %

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Analysis index: 62
Analysis label: L2046625-03D5 6020TL
Analysis started at: 10/29/2020 12:28:52 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	168.457 %	182.125 %	0.234 ppb	225,012.822 ppb	47,417.392 ppb	3,067.040 ppb	3,994.808 ppb	34,295.754 ppb	176.863 %
Concentration per Run 1	180.050 %	186.050 %	0.198 ppb	221,830.481 ppb	46,957.240 ppb	3,028.498 ppb	3,908.511 ppb	34,981.596 ppb	187.309 %
Concentration per Run 2	168.597 %	180.639 %	0.241 ppb	228,915.434 ppb	47,875.992 ppb	3,104.344 ppb	4,111.574 ppb	34,165.431 ppb	175.980 %
Concentration per Run 3	156.723 %	179.684 %	0.263 ppb	224,292.552 ppb	47,418.944 ppb	3,068.277 ppb	3,964.340 ppb	33,740.234 ppb	167.302 %
Concentration RSD	6.9 %	1.9 %	14.0 %	1.6 %	1.0 %	1.2 %	2.6 %	1.8 %	5.7 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	160.133 ppb	15.931 ppb	6.948 ppb	503.229 ppb	6,291.657 ppb	6.220 ppb	9.795 ppb	8.112 ppb	39.580 ppb
Concentration per Run 1	164.292 ppb	16.274 ppb	7.006 ppb	509.299 ppb	6,320.054 ppb	6.361 ppb	10.126 ppb	8.026 ppb	40.498 ppb
Concentration per Run 2	158.732 ppb	15.686 ppb	7.030 ppb	504.370 ppb	6,343.672 ppb	6.239 ppb	9.409 ppb	8.311 ppb	40.374 ppb
Concentration per Run 3	157.376 ppb	15.832 ppb	6.809 ppb	496.019 ppb	6,211.244 ppb	6.059 ppb	9.852 ppb	7.999 ppb	37.866 ppb
Concentration RSD	2.3 %	1.9 %	1.7 %	1.3 %	1.1 %	2.4 %	3.7 %	2.1 %	3.8 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	161.740 %	1.282 ppb	2.415 ppb	209.606 ppb	2.538 ppb	137.902 %	0.010 ppb	0.069 ppb	152.523 %
Concentration per Run 1	156.859 %	1.454 ppb	2.864 ppb	215.921 ppb	2.731 ppb	136.731 %	0.013 ppb	0.054 ppb	150.854 %
Concentration per Run 2	164.655 %	1.170 ppb	2.145 ppb	208.686 ppb	2.393 ppb	137.283 %	0.008 ppb	0.083 ppb	152.712 %
Concentration per Run 3	163.705 %	1.222 ppb	2.236 ppb	204.210 ppb	2.489 ppb	139.693 %	0.011 ppb	0.072 ppb	154.003 %
Concentration RSD	2.6 %	11.8 %	16.2 %	2.8 %	6.9 %	1.1 %	26.0 %	21.1 %	1.0 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.322 ppb	0.093 ppb	73.469 ppb	142.050 %	141.559 %	0.688 ppb	0.107 ppb	294.744 ppb	117.790 %
Concentration per Run 1	0.342 ppb	0.115 ppb	74.103 ppb	140.530 %	140.222 %	0.665 ppb	0.103 ppb	296.382 ppb	117.723 %
Concentration per Run 2	0.315 ppb	0.102 ppb	74.660 ppb	140.698 %	141.755 %	0.672 ppb	0.106 ppb	297.467 ppb	118.523 %
Concentration per Run 3	0.309 ppb	0.063 ppb	71.643 ppb	144.921 %	142.701 %	0.728 ppb	0.112 ppb	290.384 ppb	117.124 %
Concentration RSD	5.4 %	28.9 %	2.2 %	1.8 %	0.9 %	5.0 %	4.2 %	1.3 %	0.6 %

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Analysis index: 63
Analysis label: WG1427631-6D25 6020TL
Analysis started at: 10/29/2020 12:33:56 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	165.262 %	180.109 %	0.000 ppb	77,954.032 ppb	5,134.172 ppb	4.839 ppb	3,081.157 ppb	4,493.899 ppb	169.930 %
Concentration per Run 1	166.692 %	181.753 %	-0.002 ppb	77,246.359 ppb	5,117.680 ppb	4.643 ppb	2,993.589 ppb	4,462.267 ppb	169.674 %
Concentration per Run 2	163.278 %	180.321 %	0.001 ppb	77,789.220 ppb	5,141.963 ppb	4.970 ppb	3,098.682 ppb	4,429.585 ppb	168.020 %
Concentration per Run 3	165.815 %	178.252 %	0.000 ppb	78,826.518 ppb	5,142.872 ppb	4.903 ppb	3,151.200 ppb	4,589.845 ppb	172.096 %
Concentration RSD	1.1 %	1.0 %	400.2 %	1.0 %	0.3 %	3.6 %	2.6 %	1.9 %	1.2 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	7.180 ppb	0.042 ppb	0.030 ppb	4.668 ppb	65.928 ppb	0.020 ppb	0.168 ppb	0.258 ppb	1.152 ppb
Concentration per Run 1	6.667 ppb	0.038 ppb	0.047 ppb	4.606 ppb	64.612 ppb	0.015 ppb	0.175 ppb	0.243 ppb	1.167 ppb
Concentration per Run 2	7.189 ppb	0.039 ppb	0.015 ppb	4.584 ppb	66.634 ppb	0.040 ppb	0.258 ppb	0.261 ppb	1.107 ppb
Concentration per Run 3	7.686 ppb	0.050 ppb	0.029 ppb	4.814 ppb	66.539 ppb	0.006 ppb	0.072 ppb	0.271 ppb	1.181 ppb
Concentration RSD	7.1 %	15.4 %	53.2 %	2.7 %	1.7 %	85.4 %	55.3 %	5.4 %	3.4 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	159.779 %	0.113 ppb	-0.015 ppb	63.187 ppb	0.537 ppb	143.969 %	0.001 ppb	0.001 ppb	155.175 %
Concentration per Run 1	160.729 %	0.133 ppb	0.028 ppb	63.128 ppb	0.527 ppb	143.600 %	0.001 ppb	0.000 ppb	156.349 %
Concentration per Run 2	159.623 %	0.099 ppb	-0.015 ppb	63.467 ppb	0.514 ppb	143.284 %	0.001 ppb	0.002 ppb	154.748 %
Concentration per Run 3	158.985 %	0.106 ppb	-0.058 ppb	62.966 ppb	0.569 ppb	145.022 %	0.000 ppb	0.002 ppb	154.429 %
Concentration RSD	0.6 %	15.9 %	282.5 %	0.4 %	5.3 %	0.6 %	82.4 %	86.6 %	0.7 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.107 ppb	0.048 ppb	1.624 ppb	144.120 %	145.601 %	0.051 ppb	0.040 ppb	0.198 ppb	128.776 %
Concentration per Run 1	0.093 ppb	0.040 ppb	1.556 ppb	146.329 %	146.116 %	0.023 ppb	0.033 ppb	0.186 ppb	130.392 %
Concentration per Run 2	0.059 ppb	0.042 ppb	1.786 ppb	141.955 %	143.270 %	0.043 ppb	0.041 ppb	0.202 ppb	128.549 %
Concentration per Run 3	0.170 ppb	0.063 ppb	1.530 ppb	144.076 %	147.416 %	0.088 ppb	0.046 ppb	0.206 ppb	127.387 %
Concentration RSD	52.9 %	26.4 %	8.7 %	1.5 %	1.5 %	65.0 %	15.8 %	5.2 %	1.2 %

Alpha ICPMSQ Full

10/29/2020 9:29:56 PM

Analysis index: 64
Analysis label: L2046286-02 CT-6020SL
Analysis started at: 10/29/2020 12:39:03 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	147.680 %	161.593 %	0.317 ppb	5,495.484 ppb	1,730.457 ppb	266.197 ppb	2,146.161 ppb	7,903.110 ppb	152.200 %
Concentration per Run 1	152.336 %	161.540 %	0.312 ppb	5,438.524 ppb	1,717.512 ppb	261.247 ppb	2,119.030 ppb	7,916.658 ppb	154.691 %
Concentration per Run 2	145.469 %	162.495 %	0.310 ppb	5,530.904 ppb	1,770.235 ppb	266.587 ppb	2,121.412 ppb	7,791.944 ppb	150.960 %
Concentration per Run 3	145.233 %	160.744 %	0.331 ppb	5,517.023 ppb	1,703.623 ppb	270.755 ppb	2,198.043 ppb	8,000.729 ppb	150.948 %
Concentration RSD	2.7 %	0.5 %	3.6 %	0.9 %	2.0 %	1.8 %	2.1 %	1.3 %	1.4 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	11.551 ppb	0.130 ppb	0.487 ppb	144.704 ppb	18.487 ppb	0.710 ppb	2.829 ppb	1.431 ppb	23.508 ppb
Concentration per Run 1	11.621 ppb	0.126 ppb	0.488 ppb	143.793 ppb	16.105 ppb	0.753 ppb	2.685 ppb	1.514 ppb	23.338 ppb
Concentration per Run 2	11.182 ppb	0.083 ppb	0.503 ppb	145.304 ppb	18.665 ppb	0.713 ppb	2.846 ppb	1.410 ppb	23.582 ppb
Concentration per Run 3	11.849 ppb	0.180 ppb	0.469 ppb	145.015 ppb	20.691 ppb	0.665 ppb	2.955 ppb	1.370 ppb	23.602 ppb
Concentration RSD	2.9 %	37.5 %	3.5 %	0.6 %	12.4 %	6.2 %	4.8 %	5.2 %	0.6 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	147.871 %	0.150 ppb	0.187 ppb	50.634 ppb	0.596 ppb	137.277 %	0.006 ppb	0.092 ppb	149.201 %
Concentration per Run 1	148.457 %	0.160 ppb	0.248 ppb	50.979 ppb	0.458 ppb	137.708 %	0.004 ppb	0.092 ppb	148.183 %
Concentration per Run 2	147.603 %	0.136 ppb	0.180 ppb	50.410 ppb	0.617 ppb	137.398 %	0.007 ppb	0.115 ppb	150.100 %
Concentration per Run 3	147.552 %	0.155 ppb	0.134 ppb	50.514 ppb	0.713 ppb	136.725 %	0.007 ppb	0.068 ppb	149.321 %
Concentration RSD	0.3 %	8.4 %	30.7 %	0.6 %	21.6 %	0.4 %	29.6 %	25.8 %	0.6 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.103 ppb	0.037 ppb	36.241 ppb	138.089 %	140.023 %	0.254 ppb	0.100 ppb	0.160 ppb	132.803 %
Concentration per Run 1	0.054 ppb	0.028 ppb	36.778 ppb	136.876 %	139.437 %	0.231 ppb	0.093 ppb	0.152 ppb	132.774 %
Concentration per Run 2	0.069 ppb	0.050 ppb	35.084 ppb	138.060 %	139.967 %	0.244 ppb	0.101 ppb	0.163 ppb	134.444 %
Concentration per Run 3	0.185 ppb	0.033 ppb	36.862 ppb	139.332 %	140.665 %	0.289 ppb	0.105 ppb	0.166 ppb	131.190 %
Concentration RSD	70.1 %	30.4 %	2.8 %	0.9 %	0.4 %	11.8 %	6.3 %	4.4 %	1.2 %

Alpha ICPMSQ Full

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Analysis index: 65
Analysis label: L2046625-03D50 6020SL
Analysis started at: 10/29/2020 12:44:07 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	137.334 %	156.712 %	-0.003 ppb	20,213.175 ppb	4,408.007 ppb	0.895 ppb	273.480 ppb	2,096.602 ppb	142.437 %
Concentration per Run 1	151.551 %	155.970 %	-0.004 ppb	20,094.441 ppb	4,400.197 ppb	0.560 ppb	273.374 ppb	2,086.953 ppb	157.140 %
Concentration per Run 2	144.342 %	151.672 %	-0.001 ppb	20,752.622 ppb	4,574.657 ppb	1.197 ppb	270.165 ppb	2,146.685 ppb	149.986 %
Concentration per Run 3	116.109 %	162.495 %	-0.003 ppb	19,792.462 ppb	4,249.166 ppb	0.928 ppb	276.902 ppb	2,056.167 ppb	120.186 %
Concentration RSD	13.6 %	3.5 %	51.7 %	2.4 %	3.7 %	35.8 %	1.2 %	2.2 %	13.8 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	3.220 ppb	0.069 ppb	0.068 ppb	4.976 ppb	12.071 ppb	0.065 ppb	0.140 ppb	0.048 ppb	0.051 ppb
Concentration per Run 1	2.899 ppb	0.088 ppb	0.086 ppb	4.661 ppb	9.991 ppb	0.051 ppb	0.123 ppb	0.036 ppb	0.044 ppb
Concentration per Run 2	3.234 ppb	0.034 ppb	0.061 ppb	5.243 ppb	10.579 ppb	0.064 ppb	0.162 ppb	0.036 ppb	0.042 ppb
Concentration per Run 3	3.526 ppb	0.086 ppb	0.057 ppb	5.024 ppb	15.642 ppb	0.081 ppb	0.136 ppb	0.071 ppb	0.068 ppb
Concentration RSD	9.7 %	44.4 %	23.5 %	5.9 %	25.7 %	23.3 %	14.1 %	42.5 %	28.4 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	145.510 %	0.016 ppb	0.216 ppb	17.032 ppb	0.389 ppb	134.972 %	0.000 ppb	0.000 ppb	144.795 %
Concentration per Run 1	145.692 %	0.030 ppb	0.207 ppb	17.124 ppb	0.375 ppb	137.303 %	-0.001 ppb	0.000 ppb	145.198 %
Concentration per Run 2	146.844 %	-0.027 ppb	0.206 ppb	16.933 ppb	0.341 ppb	134.563 %	-0.001 ppb	0.000 ppb	145.480 %
Concentration per Run 3	143.996 %	0.044 ppb	0.236 ppb	17.038 ppb	0.452 ppb	133.049 %	0.001 ppb	0.000 ppb	143.707 %
Concentration RSD	1.0 %	243.8 %	7.9 %	0.6 %	14.6 %	1.6 %	741.6 %	N/A	0.7 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.103 ppb	0.018 ppb	2.544 ppb	135.376 %	137.311 %	0.011 ppb	0.032 ppb	0.122 ppb	126.494 %
Concentration per Run 1	0.109 ppb	0.018 ppb	2.454 ppb	136.089 %	137.777 %	-0.030 ppb	0.025 ppb	0.114 ppb	126.252 %
Concentration per Run 2	0.050 ppb	0.013 ppb	2.641 ppb	136.632 %	137.650 %	0.027 ppb	0.034 ppb	0.125 ppb	126.846 %
Concentration per Run 3	0.149 ppb	0.021 ppb	2.535 ppb	133.406 %	136.506 %	0.035 ppb	0.037 ppb	0.127 ppb	126.384 %
Concentration RSD	48.7 %	22.5 %	3.7 %	1.3 %	0.5 %	337.4 %	20.1 %	5.7 %	0.2 %

Alpha ICPMSQ Full

10/29/2020 9:29:56 PM

Analysis index: 66 Analysis started at: 10/29/2020 12:49:13 PM
Analysis label: CCV User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	136.024 %	154.749 %	60.255 ppb	5,874.704 ppb	5,941.723 ppb	58.905 ppb	6,046.764 ppb	5,967.889 ppb	150.319 %
Concentration per Run 1	144.639 %	156.765 %	53.313 ppb	5,872.984 ppb	5,933.033 ppb	59.758 ppb	5,993.148 ppb	6,121.225 ppb	157.016 %
Concentration per Run 2	136.512 %	149.444 %	60.117 ppb	6,133.770 ppb	6,199.692 ppb	61.605 ppb	6,323.979 ppb	6,149.415 ppb	150.010 %
Concentration per Run 3	126.922 %	158.039 %	67.334 ppb	5,617.359 ppb	5,692.445 ppb	55.352 ppb	5,823.164 ppb	5,633.025 ppb	143.930 %
Recovery Percentage 1			100.424 %	97.912 %	99.029 %	98.175 %	100.779 %	99.465 %	
Concentration RSD	6.5 %	3.0 %	11.6 %	4.4 %	4.3 %	5.5 %	4.2 %	4.9 %	4.4 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	58.040 ppb	57.629 ppb	56.773 ppb	58.469 ppb	5,835.467 ppb	57.852 ppb	57.510 ppb	57.901 ppb	58.529 ppb
Concentration per Run 1	58.215 ppb	58.685 ppb	57.120 ppb	58.389 ppb	5,864.623 ppb	58.665 ppb	58.938 ppb	58.481 ppb	60.255 ppb
Concentration per Run 2	60.669 ppb	60.753 ppb	59.605 ppb	61.736 ppb	6,034.396 ppb	59.875 ppb	59.452 ppb	60.320 ppb	59.881 ppb
Concentration per Run 3	55.235 ppb	53.447 ppb	53.594 ppb	55.281 ppb	5,607.383 ppb	55.016 ppb	54.139 ppb	54.900 ppb	55.451 ppb
Recovery Percentage 1	96.733 %	96.048 %	94.622 %	97.448 %	97.258 %	96.421 %	95.849 %	96.501 %	97.548 %
Concentration RSD	4.7 %	6.5 %	5.3 %	5.5 %	3.7 %	4.4 %	5.1 %	4.8 %	4.6 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	136.023 %	59.223 ppb	60.345 ppb	61.014 ppb	58.155 ppb	130.040 %	57.699 ppb	58.501 ppb	139.801 %
Concentration per Run 1	137.452 %	60.192 ppb	59.866 ppb	62.665 ppb	59.192 ppb	127.486 %	59.539 ppb	60.974 ppb	136.346 %
Concentration per Run 2	133.558 %	60.427 ppb	61.993 ppb	61.965 ppb	59.532 ppb	130.373 %	58.113 ppb	59.376 ppb	140.369 %
Concentration per Run 3	137.058 %	57.051 ppb	59.176 ppb	58.411 ppb	55.741 ppb	132.262 %	55.445 ppb	55.152 ppb	142.689 %
Recovery Percentage 1		98.706 %	100.575 %	101.690 %	96.925 %		96.164 %	97.502 %	
Concentration RSD	1.6 %	3.2 %	2.4 %	3.7 %	3.6 %	1.8 %	3.6 %	5.1 %	2.3 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.181 ppb	58.803 ppb	59.364 ppb	134.756 %	138.484 %	55.873 ppb	58.091 ppb	58.349 ppb	128.388 %
Concentration per Run 1	60.070 ppb	60.455 ppb	61.310 ppb	134.029 %	136.426 %	58.265 ppb	59.826 ppb	60.315 ppb	126.576 %
Concentration per Run 2	58.581 ppb	59.510 ppb	60.896 ppb	132.510 %	137.460 %	56.444 ppb	59.393 ppb	59.310 ppb	126.128 %
Concentration per Run 3	55.893 ppb	56.444 ppb	55.885 ppb	137.729 %	141.568 %	52.911 ppb	55.054 ppb	55.422 ppb	132.459 %
Recovery Percentage 1	96.969 %	98.005 %	98.939 %			93.122 %	96.819 %	97.249 %	
Concentration RSD	3.6 %	3.6 %	5.1 %	2.0 %	2.0 %	4.9 %	4.5 %	4.4 %	2.8 %

Alpha ICPMSQ Full

10/29/2020 9:29:56 PM

Analysis index: 67 Analysis started at: 10/29/2020 12:54:21 PM
Analysis label: CCB User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	121.748 %	143.449 %	0.006 ppb	-1.412 ppb	0.072 ppb	-0.086 ppb	-2.417 ppb	3.140 ppb	123.133 %
Concentration per Run 1	132.327 %	149.922 %	0.005 ppb	-1.360 ppb	0.157 ppb	-0.472 ppb	-2.738 ppb	7.649 ppb	133.006 %
Concentration per Run 2	120.732 %	141.646 %	0.009 ppb	-1.872 ppb	0.452 ppb	0.296 ppb	-2.832 ppb	0.182 ppb	121.345 %
Concentration per Run 3	112.185 %	138.781 %	0.004 ppb	-1.003 ppb	-0.394 ppb	-0.082 ppb	-1.680 ppb	1.589 ppb	115.049 %
Recovery Percentage 1			1.225 %	-1.412 %	0.102 %	-0.859 %	-2.417 %	3.140 %	
Concentration RSD	8.3 %	4.0 %	46.7 %	31.0 %	599.2 %	447.1 %	26.5 %	126.4 %	7.4 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.278 ppb	-0.028 ppb	-0.001 ppb	0.091 ppb	27.124 ppb	0.000 ppb	0.028 ppb	0.024 ppb	-0.050 ppb
Concentration per Run 1	0.235 ppb	-0.024 ppb	-0.001 ppb	0.073 ppb	22.679 ppb	0.000 ppb	-0.001 ppb	0.022 ppb	-0.050 ppb
Concentration per Run 2	0.355 ppb	-0.062 ppb	0.002 ppb	0.096 ppb	26.595 ppb	0.000 ppb	0.011 ppb	0.026 ppb	-0.029 ppb
Concentration per Run 3	0.242 ppb	0.002 ppb	-0.005 ppb	0.103 ppb	32.098 ppb	0.000 ppb	0.074 ppb	0.022 ppb	-0.070 ppb
Recovery Percentage 1	55.504 %	-0.562 %	-0.129 %	9.086 %	54.248 %	0.000 %	1.408 %	2.363 %	-0.497 %
Concentration RSD	24.3 %	114.8 %	252.3 %	17.2 %	17.4 %	N/A	142.1 %	10.4 %	41.8 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	128.189 %	0.024 ppb	0.137 ppb	0.005 ppb	0.725 ppb	122.015 %	0.005 ppb	0.001 ppb	130.540 %
Concentration per Run 1	124.139 %	0.006 ppb	0.124 ppb	0.005 ppb	0.730 ppb	122.799 %	0.004 ppb	0.000 ppb	131.133 %
Concentration per Run 2	134.415 %	0.023 ppb	0.056 ppb	0.006 ppb	0.639 ppb	125.639 %	0.007 ppb	0.004 ppb	134.382 %
Concentration per Run 3	126.013 %	0.042 ppb	0.232 ppb	0.004 ppb	0.807 ppb	117.607 %	0.004 ppb	0.000 ppb	126.106 %
Recovery Percentage 1		4.703 %	2.748 %	1.010 %	36.259 %		1.227 %	0.735 %	
Concentration RSD	4.3 %	77.0 %	64.5 %	15.7 %	11.6 %	3.3 %	37.1 %	173.2 %	3.2 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.775 ppb	0.048 ppb	0.028 ppb	124.588 %	126.347 %	0.979 ppb	0.321 ppb	0.052 ppb	121.837 %
Concentration per Run 1	0.817 ppb	0.040 ppb	0.009 ppb	124.278 %	125.282 %	0.898 ppb	0.332 ppb	0.050 ppb	121.758 %
Concentration per Run 2	0.685 ppb	0.040 ppb	0.039 ppb	129.145 %	129.270 %	0.938 ppb	0.300 ppb	0.053 ppb	125.250 %
Concentration per Run 3	0.823 ppb	0.065 ppb	0.034 ppb	120.342 %	124.488 %	1.102 ppb	0.331 ppb	0.054 ppb	118.503 %
Recovery Percentage 1	25.823 %	1.212 %	5.521 %			48.971 %	64.261 %	5.226 %	
Concentration RSD	10.1 %	29.2 %	58.9 %	3.5 %	2.0 %	11.1 %	5.6 %	3.9 %	2.8 %

Analysis index: 68
Analysis label: WG1426709-1 MCP-6020TL-10
Analysis started at: 10/29/2020 1:00:37 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	124.186 %	138.091 %	-0.003 ppb	0.355 ppb	2.990 ppb	1.793 ppb	0.013 ppb	16.549 ppb	119.056 %
Concentration per Run 1	127.089 %	134.802 %	-0.004 ppb	-0.475 ppb	2.553 ppb	1.672 ppb	0.705 ppb	17.867 ppb	121.468 %
Concentration per Run 2	124.254 %	137.985 %	-0.002 ppb	0.392 ppb	3.373 ppb	2.048 ppb	0.067 ppb	15.276 ppb	118.769 %
Concentration per Run 3	121.215 %	141.486 %	-0.002 ppb	1.147 ppb	3.043 ppb	1.660 ppb	-0.733 ppb	16.506 ppb	116.932 %
Concentration RSD	2.4 %	2.4 %	25.6 %	228.7 %	13.8 %	12.3 %	5,536.7 %	7.8 %	1.9 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.176 ppb	-0.040 ppb	0.636 ppb	0.101 ppb	10.729 ppb	0.008 ppb	0.348 ppb	0.065 ppb	0.304 ppb
Concentration per Run 1	0.146 ppb	-0.048 ppb	0.664 ppb	0.101 ppb	10.278 ppb	0.004 ppb	0.376 ppb	0.165 ppb	0.446 ppb
Concentration per Run 2	0.163 ppb	-0.049 ppb	0.578 ppb	0.045 ppb	11.178 ppb	0.011 ppb	0.346 ppb	0.029 ppb	0.208 ppb
Concentration per Run 3	0.220 ppb	-0.024 ppb	0.667 ppb	0.158 ppb	10.730 ppb	0.008 ppb	0.323 ppb	0.002 ppb	0.259 ppb
Concentration RSD	22.2 %	35.8 %	7.9 %	56.0 %	4.2 %	49.6 %	7.7 %	133.8 %	41.0 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	129.338 %	0.016 ppb	-0.008 ppb	0.008 ppb	0.201 ppb	122.361 %	0.001 ppb	0.001 ppb	132.144 %
Concentration per Run 1	130.753 %	0.017 ppb	-0.044 ppb	0.010 ppb	0.199 ppb	122.818 %	0.001 ppb	0.000 ppb	131.299 %
Concentration per Run 2	130.476 %	0.003 ppb	0.035 ppb	0.002 ppb	0.237 ppb	121.756 %	0.001 ppb	0.000 ppb	133.891 %
Concentration per Run 3	126.786 %	0.027 ppb	-0.015 ppb	0.011 ppb	0.167 ppb	122.507 %	0.000 ppb	0.002 ppb	131.240 %
Concentration RSD	1.7 %	74.0 %	493.7 %	63.7 %	17.4 %	0.4 %	57.4 %	173.2 %	1.1 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.427 ppb	0.014 ppb	0.020 ppb	123.723 %	127.001 %	0.209 ppb	0.087 ppb	0.016 ppb	122.841 %
Concentration per Run 1	0.410 ppb	0.012 ppb	-0.007 ppb	125.009 %	128.963 %	0.136 ppb	0.085 ppb	0.013 ppb	123.534 %
Concentration per Run 2	0.441 ppb	0.017 ppb	0.033 ppb	123.927 %	126.243 %	0.223 ppb	0.085 ppb	0.019 ppb	121.659 %
Concentration per Run 3	0.428 ppb	0.014 ppb	0.033 ppb	122.232 %	125.796 %	0.269 ppb	0.092 ppb	0.016 ppb	123.330 %
Concentration RSD	3.6 %	18.9 %	116.7 %	1.1 %	1.3 %	32.2 %	4.3 %	18.1 %	0.8 %

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Analysis index: 69
Analysis label: WG1426709-2D10 MCP-6020TL-10
Analysis started at: 10/29/2020 1:05:43 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	124.060 %	145.518 %	5.870 ppb	1,059.845 ppb	1,083.184 ppb	219.986 ppb	1,098.663 ppb	986.136 ppb	130.049 %
Concentration per Run 1	129.676 %	140.213 %	5.497 ppb	1,072.409 ppb	1,136.398 ppb	222.572 ppb	1,098.923 ppb	964.895 ppb	131.749 %
Concentration per Run 2	122.761 %	146.261 %	5.949 ppb	1,066.915 ppb	1,067.456 ppb	223.872 ppb	1,132.138 ppb	1,019.920 ppb	128.819 %
Concentration per Run 3	119.742 %	150.081 %	6.164 ppb	1,040.212 ppb	1,045.698 ppb	213.515 ppb	1,064.927 ppb	973.591 ppb	129.579 %
Concentration RSD	4.1 %	3.4 %	5.8 %	1.6 %	4.4 %	2.6 %	3.1 %	3.0 %	1.2 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	85.616 ppb	48.937 ppb	19.163 ppb	49.252 ppb	101.889 ppb	48.982 ppb	48.163 ppb	24.339 ppb	53.101 ppb
Concentration per Run 1	85.868 ppb	49.219 ppb	19.596 ppb	49.719 ppb	102.237 ppb	50.138 ppb	48.611 ppb	24.802 ppb	53.223 ppb
Concentration per Run 2	86.192 ppb	49.001 ppb	19.130 ppb	49.881 ppb	96.676 ppb	48.046 ppb	47.503 ppb	24.370 ppb	53.840 ppb
Concentration per Run 3	84.788 ppb	48.590 ppb	18.764 ppb	48.154 ppb	106.753 ppb	48.761 ppb	48.375 ppb	23.844 ppb	52.241 ppb
Concentration RSD	0.9 %	0.7 %	2.2 %	1.9 %	5.0 %	2.2 %	1.2 %	2.0 %	1.5 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	137.437 %	12.351 ppb	12.561 ppb	103.463 ppb	97.845 ppb	127.811 %	5.159 ppb	5.587 ppb	137.271 %
Concentration per Run 1	138.628 %	12.320 ppb	12.744 ppb	102.166 ppb	97.314 ppb	128.769 %	5.209 ppb	5.490 ppb	135.629 %
Concentration per Run 2	136.218 %	12.527 ppb	12.673 ppb	102.813 ppb	98.439 ppb	128.095 %	5.120 ppb	5.762 ppb	137.689 %
Concentration per Run 3	137.465 %	12.206 ppb	12.266 ppb	105.409 ppb	97.781 ppb	126.567 %	5.148 ppb	5.509 ppb	138.495 %
Concentration RSD	0.9 %	1.3 %	2.1 %	1.7 %	0.6 %	0.9 %	0.9 %	2.7 %	1.1 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	95.077 ppb	46.562 ppb	206.194 ppb	131.162 %	134.282 %	0.161 ppb	12.199 ppb	55.137 ppb	127.415 %
Concentration per Run 1	97.160 ppb	46.555 ppb	205.056 ppb	131.480 %	133.137 %	0.097 ppb	12.376 ppb	55.936 ppb	127.169 %
Concentration per Run 2	93.784 ppb	46.188 ppb	208.050 ppb	129.691 %	134.253 %	0.165 ppb	12.021 ppb	54.546 ppb	127.921 %
Concentration per Run 3	94.287 ppb	46.943 ppb	205.477 ppb	132.317 %	135.455 %	0.220 ppb	12.200 ppb	54.928 ppb	127.155 %
Concentration RSD	1.9 %	0.8 %	0.8 %	1.0 %	0.9 %	38.1 %	1.5 %	1.3 %	0.3 %

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Analysis index: 70
Analysis label: WG1426709-3D10 MCP-6020TL-10
Analysis started at: 10/29/2020 1:10:50 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	126.680 %	151.938 %	5.408 ppb	1,016.779 ppb	1,044.032 ppb	212.203 ppb	1,047.241 ppb	966.173 ppb	131.922 %
Concentration per Run 1	131.625 %	145.943 %	4.968 ppb	1,051.887 ppb	1,060.305 ppb	214.675 ppb	1,083.961 ppb	964.260 ppb	133.657 %
Concentration per Run 2	125.687 %	151.832 %	5.639 ppb	1,005.228 ppb	1,061.252 ppb	212.306 ppb	1,004.570 ppb	1,054.291 ppb	132.134 %
Concentration per Run 3	122.728 %	158.039 %	5.616 ppb	993.223 ppb	1,010.539 ppb	209.628 ppb	1,053.194 ppb	879.969 ppb	129.974 %
Concentration RSD	3.6 %	4.0 %	7.0 %	3.0 %	2.8 %	1.2 %	3.8 %	9.0 %	1.4 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	84.080 ppb	47.701 ppb	19.040 ppb	49.259 ppb	100.251 ppb	47.829 ppb	47.101 ppb	24.029 ppb	52.584 ppb
Concentration per Run 1	86.650 ppb	49.331 ppb	19.881 ppb	50.368 ppb	100.052 ppb	49.984 ppb	49.411 ppb	25.517 ppb	54.897 ppb
Concentration per Run 2	83.493 ppb	48.253 ppb	18.719 ppb	49.256 ppb	100.797 ppb	48.527 ppb	46.556 ppb	24.180 ppb	53.476 ppb
Concentration per Run 3	82.098 ppb	45.518 ppb	18.520 ppb	48.154 ppb	99.904 ppb	44.977 ppb	45.335 ppb	22.390 ppb	49.378 ppb
Concentration RSD	2.8 %	4.1 %	3.9 %	2.2 %	0.5 %	5.4 %	4.4 %	6.5 %	5.4 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	136.664 %	12.405 ppb	13.627 ppb	103.658 ppb	98.045 ppb	128.470 %	5.030 ppb	5.444 ppb	140.088 %
Concentration per Run 1	131.334 %	12.411 ppb	13.467 ppb	104.411 ppb	98.283 ppb	126.872 %	5.111 ppb	5.695 ppb	135.426 %
Concentration per Run 2	135.156 %	12.746 ppb	14.154 ppb	102.609 ppb	100.523 ppb	128.340 %	5.091 ppb	5.445 ppb	137.331 %
Concentration per Run 3	143.501 %	12.058 ppb	13.259 ppb	103.953 ppb	95.330 ppb	130.197 %	4.889 ppb	5.192 ppb	147.506 %
Concentration RSD	4.6 %	2.8 %	3.4 %	0.9 %	2.7 %	1.3 %	2.4 %	4.6 %	4.6 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	94.464 ppb	47.748 ppb	202.377 ppb	131.652 %	135.933 %	0.086 ppb	12.044 ppb	54.155 ppb	128.479 %
Concentration per Run 1	97.757 ppb	48.894 ppb	205.942 ppb	128.883 %	132.532 %	0.050 ppb	12.271 ppb	54.610 ppb	127.665 %
Concentration per Run 2	95.543 ppb	48.229 ppb	202.055 ppb	131.212 %	133.999 %	0.098 ppb	12.098 ppb	55.416 ppb	126.193 %
Concentration per Run 3	90.092 ppb	46.121 ppb	199.134 ppb	134.860 %	141.267 %	0.109 ppb	11.762 ppb	52.438 ppb	131.578 %
Concentration RSD	4.2 %	3.0 %	1.7 %	2.3 %	3.4 %	37.1 %	2.1 %	2.8 %	2.2 %

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Analysis index: 71
Analysis label: WG1426709-4D10 MCP-6020TL-10
Analysis started at: 10/29/2020 1:15:57 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	144.733 %	168.649 %	4.674 ppb	132,771.098 ppb	16,122.659 ppb	230.378 ppb	5,584.891 ppb	7,769.991 ppb	150.381 %
Concentration per Run 1	147.630 %	172.522 %	4.535 ppb	125,584.831 ppb	15,542.944 ppb	215.976 ppb	5,229.836 ppb	7,444.787 ppb	151.925 %
Concentration per Run 2	144.854 %	162.813 %	4.667 ppb	137,767.305 ppb	16,593.350 ppb	237.846 ppb	5,709.958 ppb	7,825.889 ppb	151.227 %
Concentration per Run 3	141.716 %	170.612 %	4.821 ppb	134,961.158 ppb	16,231.684 ppb	237.312 ppb	5,814.878 ppb	8,039.296 ppb	147.989 %
Concentration RSD	2.0 %	3.0 %	3.1 %	4.8 %	3.3 %	5.4 %	5.6 %	3.9 %	1.4 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	90.691 ppb	46.755 ppb	18.205 ppb	69.025 ppb	224.773 ppb	47.152 ppb	45.091 ppb	23.961 ppb	49.252 ppb
Concentration per Run 1	85.312 ppb	44.753 ppb	17.442 ppb	66.700 ppb	212.699 ppb	45.810 ppb	45.291 ppb	24.161 ppb	49.254 ppb
Concentration per Run 2	93.146 ppb	49.279 ppb	18.877 ppb	71.165 ppb	241.305 ppb	49.383 ppb	45.754 ppb	23.951 ppb	50.711 ppb
Concentration per Run 3	93.616 ppb	46.232 ppb	18.297 ppb	69.209 ppb	220.313 ppb	46.263 ppb	44.229 ppb	23.772 ppb	47.793 ppb
Concentration RSD	5.1 %	4.9 %	4.0 %	3.2 %	6.6 %	4.1 %	1.7 %	0.8 %	3.0 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	145.704 %	12.904 ppb	12.047 ppb	200.785 ppb	102.137 ppb	128.485 %	4.844 ppb	5.113 ppb	143.454 %
Concentration per Run 1	143.379 %	12.480 ppb	11.933 ppb	195.251 ppb	100.656 ppb	129.112 %	4.777 ppb	4.919 ppb	141.606 %
Concentration per Run 2	142.679 %	13.214 ppb	11.996 ppb	201.512 ppb	103.960 ppb	126.111 %	5.034 ppb	5.416 ppb	139.381 %
Concentration per Run 3	151.053 %	13.018 ppb	12.211 ppb	205.591 ppb	101.796 ppb	130.234 %	4.721 ppb	5.004 ppb	149.374 %
Concentration RSD	3.2 %	2.9 %	1.2 %	2.6 %	1.6 %	1.7 %	3.4 %	5.2 %	3.7 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	95.281 ppb	54.433 ppb	208.207 ppb	139.153 %	142.803 %	0.068 ppb	12.431 ppb	55.851 ppb	120.385 %
Concentration per Run 1	93.147 ppb	53.024 ppb	203.587 ppb	139.275 %	142.593 %	0.039 ppb	12.236 ppb	54.711 ppb	120.668 %
Concentration per Run 2	99.611 ppb	56.084 ppb	212.320 ppb	137.063 %	139.511 %	0.076 ppb	12.776 ppb	57.282 ppb	118.226 %
Concentration per Run 3	93.084 ppb	54.190 ppb	208.715 ppb	141.121 %	146.305 %	0.088 ppb	12.281 ppb	55.560 ppb	122.262 %
Concentration RSD	3.9 %	2.8 %	2.1 %	1.5 %	2.4 %	38.1 %	2.4 %	2.3 %	1.7 %

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Analysis index: 72
Analysis label: XWG1426709-5D10 MCP-6020TL-10
Analysis started at: 10/29/2020 1:21:01 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	131.674 %	139.046 %	-0.001 ppb	-0.133 ppb	0.283 ppb	-0.500 ppb	-1.396 ppb	4.229 ppb	133.412 %
Concentration per Run 1	133.043 %	138.781 %	-0.006 ppb	0.254 ppb	-0.105 ppb	-0.452 ppb	3.701 ppb	2.768 ppb	133.912 %
Concentration per Run 2	132.778 %	140.213 %	0.002 ppb	1.409 ppb	1.051 ppb	-0.452 ppb	-8.202 ppb	5.442 ppb	134.777 %
Concentration per Run 3	129.200 %	138.144 %	0.001 ppb	-2.063 ppb	-0.096 ppb	-0.598 ppb	0.313 ppb	4.476 ppb	131.549 %
Concentration RSD	1.6 %	0.8 %	489.9 %	1,326.6 %	234.7 %	16.8 %	439.3 %	32.0 %	1.3 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.543 ppb	0.040 ppb	0.003 ppb	0.037 ppb	2.326 ppb	0.001 ppb	-0.014 ppb	-0.043 ppb	0.369 ppb
Concentration per Run 1	0.536 ppb	0.062 ppb	0.003 ppb	0.031 ppb	1.634 ppb	0.000 ppb	-0.030 ppb	-0.048 ppb	0.339 ppb
Concentration per Run 2	0.562 ppb	0.064 ppb	-0.001 ppb	0.060 ppb	2.687 ppb	0.004 ppb	-0.030 ppb	-0.057 ppb	0.383 ppb
Concentration per Run 3	0.533 ppb	-0.006 ppb	0.006 ppb	0.020 ppb	2.655 ppb	0.000 ppb	0.018 ppb	-0.025 ppb	0.385 ppb
Concentration RSD	2.9 %	99.2 %	114.3 %	55.6 %	25.8 %	173.2 %	198.7 %	38.7 %	7.2 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	123.773 %	0.024 ppb	0.044 ppb	0.001 ppb	1.491 ppb	118.003 %	0.000 ppb	0.001 ppb	126.730 %
Concentration per Run 1	129.146 %	-0.003 ppb	0.089 ppb	0.005 ppb	1.019 ppb	125.905 %	0.001 ppb	0.000 ppb	132.853 %
Concentration per Run 2	125.634 %	0.027 ppb	-0.041 ppb	-0.002 ppb	1.495 ppb	118.633 %	-0.001 ppb	0.000 ppb	126.413 %
Concentration per Run 3	116.539 %	0.049 ppb	0.083 ppb	-0.001 ppb	1.959 ppb	109.471 %	-0.001 ppb	0.002 ppb	120.924 %
Concentration RSD	5.3 %	107.9 %	168.4 %	703.9 %	31.5 %	7.0 %	437.0 %	173.2 %	4.7 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	2.944 ppb	0.943 ppb	0.018 ppb	120.945 %	123.521 %	-0.006 ppb	0.125 ppb	0.039 ppb	118.440 %
Concentration per Run 1	2.504 ppb	0.816 ppb	0.009 ppb	128.811 %	131.227 %	-0.036 ppb	0.111 ppb	0.035 ppb	125.490 %
Concentration per Run 2	2.875 ppb	0.957 ppb	0.034 ppb	121.700 %	125.426 %	-0.007 ppb	0.115 ppb	0.040 ppb	119.969 %
Concentration per Run 3	3.453 ppb	1.057 ppb	0.011 ppb	112.325 %	113.909 %	0.026 ppb	0.151 ppb	0.042 ppb	109.861 %
Concentration RSD	16.3 %	12.9 %	79.6 %	6.8 %	7.1 %	556.8 %	17.7 %	9.9 %	6.7 %

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Analysis index: 73
Analysis label: XL2046058-06D10 MCP-6020TL-10
Analysis started at: 10/29/2020 1:26:06 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	149.738 %	174.538 %	4.491 ppb	262,513.413 ppb	28,574.477 ppb	241.049 ppb	9,650.573 ppb	13,213.582 ppb	157.157 %
Concentration per Run 1	159.726 %	171.726 %	3.926 ppb	252,443.107 ppb	27,573.749 ppb	229.173 ppb	9,309.244 ppb	12,695.137 ppb	164.960 %
Concentration per Run 2	149.320 %	190.189 %	4.551 ppb	249,945.700 ppb	27,158.085 ppb	240.375 ppb	9,553.508 ppb	12,849.089 ppb	155.785 %
Concentration per Run 3	140.169 %	161.699 %	4.996 ppb	285,151.433 ppb	30,991.595 ppb	253.600 ppb	10,088.968 ppb	14,096.520 ppb	150.725 %
Concentration RSD	6.5 %	8.3 %	12.0 %	7.5 %	7.4 %	5.1 %	4.1 %	5.8 %	4.6 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	94.441 ppb	43.765 ppb	17.050 ppb	83.047 ppb	337.000 ppb	44.342 ppb	42.036 ppb	21.951 ppb	45.513 ppb
Concentration per Run 1	91.085 ppb	44.530 ppb	16.472 ppb	81.636 ppb	315.438 ppb	43.992 ppb	41.262 ppb	21.185 ppb	44.032 ppb
Concentration per Run 2	92.320 ppb	40.761 ppb	16.369 ppb	80.260 ppb	325.800 ppb	41.503 ppb	38.578 ppb	20.810 ppb	44.216 ppb
Concentration per Run 3	99.919 ppb	46.005 ppb	18.310 ppb	87.244 ppb	369.762 ppb	47.530 ppb	46.268 ppb	23.858 ppb	48.293 ppb
Concentration RSD	5.1 %	6.2 %	6.4 %	4.5 %	8.6 %	6.8 %	9.3 %	7.6 %	5.3 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	147.456 %	12.424 ppb	11.565 ppb	289.613 ppb	98.841 ppb	127.383 %	4.665 ppb	4.675 ppb	140.784 %
Concentration per Run 1	147.812 %	12.321 ppb	10.431 ppb	279.173 ppb	95.467 ppb	127.820 %	4.535 ppb	4.563 ppb	139.489 %
Concentration per Run 2	155.770 %	12.056 ppb	12.202 ppb	290.282 ppb	94.572 ppb	131.580 %	4.523 ppb	4.549 ppb	149.319 %
Concentration per Run 3	138.785 %	12.895 ppb	12.060 ppb	299.383 ppb	106.485 ppb	122.750 %	4.936 ppb	4.913 ppb	133.543 %
Concentration RSD	5.8 %	3.5 %	8.5 %	3.5 %	6.7 %	3.5 %	5.0 %	4.4 %	5.7 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	90.213 ppb	49.251 ppb	204.549 ppb	138.137 %	139.647 %	0.022 ppb	11.862 ppb	54.434 ppb	114.139 %
Concentration per Run 1	87.816 ppb	48.676 ppb	196.202 ppb	138.589 %	140.317 %	-0.010 ppb	11.526 ppb	52.684 ppb	115.000 %
Concentration per Run 2	86.680 ppb	47.159 ppb	200.226 ppb	144.132 %	146.513 %	0.011 ppb	11.410 ppb	52.485 ppb	118.765 %
Concentration per Run 3	96.144 ppb	51.919 ppb	217.218 ppb	131.690 %	132.109 %	0.066 ppb	12.651 ppb	58.133 ppb	108.654 %
Concentration RSD	5.7 %	4.9 %	5.5 %	4.5 %	5.2 %	177.0 %	5.8 %	5.9 %	4.5 %

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10/29/2020 9:29:56 PM

Analysis index: 74
Analysis label: L2046201-02D5 6020TL
Analysis started at: 10/29/2020 1:31:11 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	156.077 %	197.085 %	0.002 ppb	226,934.611 ppb	14,970.485 ppb	41.583 ppb	8,806.222 ppb	12,923.666 ppb	163.080 %
Concentration per Run 1	168.272 %	191.144 %	-0.001 ppb	232,282.495 ppb	15,422.820 ppb	41.677 ppb	8,966.134 ppb	13,090.388 ppb	172.149 %
Concentration per Run 2	151.625 %	209.765 %	0.002 ppb	226,561.751 ppb	14,923.988 ppb	42.735 ppb	9,119.015 ppb	13,381.288 ppb	159.168 %
Concentration per Run 3	148.333 %	190.348 %	0.004 ppb	221,959.586 ppb	14,564.648 ppb	40.337 ppb	8,333.516 ppb	12,299.321 ppb	157.923 %
Concentration RSD	6.8 %	5.6 %	160.3 %	2.3 %	2.9 %	2.9 %	4.7 %	4.3 %	4.8 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	19.105 ppb	0.413 ppb	0.251 ppb	9.399 ppb	59.864 ppb	0.092 ppb	0.728 ppb	11.419 ppb	148.057 ppb
Concentration per Run 1	19.007 ppb	0.352 ppb	0.257 ppb	9.276 ppb	63.066 ppb	0.071 ppb	0.797 ppb	12.077 ppb	153.924 ppb
Concentration per Run 2	19.309 ppb	0.388 ppb	0.255 ppb	9.560 ppb	61.240 ppb	0.111 ppb	0.644 ppb	10.943 ppb	146.284 ppb
Concentration per Run 3	18.999 ppb	0.497 ppb	0.240 ppb	9.361 ppb	55.287 ppb	0.092 ppb	0.745 ppb	11.238 ppb	143.963 ppb
Concentration RSD	0.9 %	18.3 %	3.8 %	1.6 %	6.8 %	21.9 %	10.7 %	5.2 %	3.5 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	157.909 %	0.457 ppb	0.140 ppb	162.061 ppb	2.874 ppb	135.676 %	0.011 ppb	0.015 ppb	148.894 %
Concentration per Run 1	153.374 %	0.439 ppb	0.148 ppb	163.951 ppb	2.595 ppb	133.853 %	0.013 ppb	0.019 ppb	144.489 %
Concentration per Run 2	165.739 %	0.437 ppb	0.172 ppb	168.148 ppb	2.877 ppb	137.541 %	0.011 ppb	0.019 ppb	155.462 %
Concentration per Run 3	154.613 %	0.495 ppb	0.101 ppb	154.083 ppb	3.150 ppb	135.634 %	0.010 ppb	0.008 ppb	146.731 %
Concentration RSD	4.3 %	7.2 %	25.6 %	4.5 %	9.6 %	1.4 %	12.1 %	40.9 %	3.9 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	2.984 ppb	0.735 ppb	7.644 ppb	144.812 %	146.558 %	0.066 ppb	0.131 ppb	0.531 ppb	119.325 %
Concentration per Run 1	2.822 ppb	0.726 ppb	7.828 ppb	143.415 %	143.566 %	0.056 ppb	0.116 ppb	0.527 ppb	119.115 %
Concentration per Run 2	2.880 ppb	0.733 ppb	7.320 ppb	148.233 %	152.531 %	0.056 ppb	0.135 ppb	0.544 ppb	121.765 %
Concentration per Run 3	3.249 ppb	0.746 ppb	7.784 ppb	142.788 %	143.578 %	0.087 ppb	0.141 ppb	0.523 ppb	117.094 %
Concentration RSD	7.8 %	1.4 %	3.7 %	2.1 %	3.5 %	26.8 %	10.1 %	2.2 %	2.0 %

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Analysis index: 75
Analysis label: WG1426709-5D10 MCP-6020TL-10
Analysis started at: 10/29/2020 1:36:17 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	160.508 %	185.467 %	4.891 ppb	138,167.672 ppb	15,491.084 ppb	233.705 ppb	5,730.821 ppb	7,733.518 ppb	163.005 %
Concentration per Run 1	167.534 %	185.414 %	4.420 ppb	134,124.350 ppb	14,940.855 ppb	221.925 ppb	5,506.742 ppb	7,492.930 ppb	167.030 %
Concentration per Run 2	160.863 %	184.459 %	4.911 ppb	141,424.043 ppb	15,891.975 ppb	241.728 ppb	5,935.221 ppb	8,010.272 ppb	163.112 %
Concentration per Run 3	153.127 %	186.528 %	5.340 ppb	138,954.622 ppb	15,640.421 ppb	237.463 ppb	5,750.499 ppb	7,697.352 ppb	158.874 %
Concentration RSD	4.5 %	0.6 %	9.4 %	2.7 %	3.2 %	4.5 %	3.8 %	3.4 %	2.5 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	92.538 ppb	47.408 ppb	17.916 ppb	68.246 ppb	217.811 ppb	47.475 ppb	45.576 ppb	23.746 ppb	50.918 ppb
Concentration per Run 1	90.197 ppb	46.128 ppb	17.384 ppb	65.765 ppb	210.710 ppb	46.429 ppb	44.694 ppb	22.863 ppb	49.343 ppb
Concentration per Run 2	93.900 ppb	47.464 ppb	17.647 ppb	70.325 ppb	223.186 ppb	47.390 ppb	45.959 ppb	23.171 ppb	51.021 ppb
Concentration per Run 3	93.516 ppb	48.632 ppb	18.716 ppb	68.648 ppb	219.538 ppb	48.604 ppb	46.075 ppb	25.203 ppb	52.391 ppb
Concentration RSD	2.2 %	2.6 %	3.9 %	3.4 %	2.9 %	2.3 %	1.7 %	5.4 %	3.0 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	156.697 %	13.041 ppb	12.572 ppb	203.249 ppb	101.217 ppb	138.286 %	4.924 ppb	5.117 ppb	151.215 %
Concentration per Run 1	155.744 %	12.550 ppb	12.625 ppb	195.915 ppb	96.667 ppb	141.642 %	4.794 ppb	5.013 ppb	153.803 %
Concentration per Run 2	159.507 %	13.223 ppb	12.621 ppb	207.954 ppb	102.785 ppb	135.912 %	4.949 ppb	5.178 ppb	150.433 %
Concentration per Run 3	154.839 %	13.349 ppb	12.472 ppb	205.878 ppb	104.200 ppb	137.303 %	5.028 ppb	5.162 ppb	149.409 %
Concentration RSD	1.6 %	3.3 %	0.7 %	3.2 %	4.0 %	2.2 %	2.4 %	1.8 %	1.5 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	90.407 ppb	51.569 ppb	207.158 ppb	145.860 %	147.477 %	-0.023 ppb	12.504 ppb	56.556 ppb	124.487 %
Concentration per Run 1	87.744 ppb	49.576 ppb	199.762 ppb	150.017 %	150.560 %	-0.047 ppb	12.035 ppb	54.566 ppb	127.722 %
Concentration per Run 2	91.052 ppb	51.881 ppb	209.648 ppb	142.617 %	144.822 %	-0.024 ppb	12.802 ppb	57.481 ppb	121.719 %
Concentration per Run 3	92.424 ppb	53.252 ppb	212.065 ppb	144.947 %	147.050 %	0.001 ppb	12.676 ppb	57.621 ppb	124.018 %
Concentration RSD	2.7 %	3.6 %	3.1 %	2.6 %	2.0 %	104.4 %	3.3 %	3.0 %	2.4 %

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Analysis index: 76
Analysis label: L2046058-06D10 MCP-6020TL-10
Analysis started at: 10/29/2020 1:41:23 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	154.317 %	183.928 %	0.004 ppb	139,500.752 ppb	14,751.378 ppb	19.211 ppb	4,761.693 ppb	6,909.122 ppb	159.003 %
Concentration per Run 1	169.160 %	178.888 %	0.005 ppb	140,889.885 ppb	14,778.198 ppb	18.922 ppb	4,686.165 ppb	7,026.209 ppb	172.077 %
Concentration per Run 2	159.475 %	190.507 %	0.005 ppb	145,561.303 ppb	15,570.063 ppb	20.241 ppb	5,113.630 ppb	7,223.118 ppb	165.434 %
Concentration per Run 3	134.316 %	182.390 %	0.001 ppb	132,051.069 ppb	13,905.873 ppb	18.470 ppb	4,485.284 ppb	6,478.039 ppb	139.498 %
Concentration RSD	11.7 %	3.2 %	69.3 %	4.9 %	5.6 %	4.8 %	6.7 %	5.6 %	10.8 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	11.079 ppb	0.087 ppb	0.175 ppb	22.901 ppb	137.630 ppb	0.059 ppb	0.307 ppb	0.350 ppb	1.908 ppb
Concentration per Run 1	10.653 ppb	0.033 ppb	0.181 ppb	22.579 ppb	134.015 ppb	0.057 ppb	0.293 ppb	0.395 ppb	1.786 ppb
Concentration per Run 2	12.147 ppb	0.123 ppb	0.204 ppb	24.408 ppb	141.960 ppb	0.063 ppb	0.267 ppb	0.284 ppb	2.075 ppb
Concentration per Run 3	10.438 ppb	0.105 ppb	0.139 ppb	21.717 ppb	136.916 ppb	0.058 ppb	0.360 ppb	0.372 ppb	1.863 ppb
Concentration RSD	8.4 %	54.8 %	18.7 %	6.0 %	2.9 %	6.1 %	15.6 %	16.8 %	7.9 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	153.463 %	0.256 ppb	0.019 ppb	102.103 ppb	2.006 ppb	135.543 %	0.004 ppb	0.004 ppb	148.351 %
Concentration per Run 1	153.100 %	0.239 ppb	0.012 ppb	99.945 ppb	1.704 ppb	137.244 %	0.003 ppb	0.004 ppb	148.942 %
Concentration per Run 2	158.571 %	0.277 ppb	0.075 ppb	109.687 ppb	2.203 ppb	133.658 %	0.007 ppb	0.006 ppb	150.088 %
Concentration per Run 3	148.718 %	0.253 ppb	-0.030 ppb	96.679 ppb	2.112 ppb	135.728 %	0.002 ppb	0.002 ppb	146.021 %
Concentration RSD	3.2 %	7.4 %	279.9 %	6.6 %	13.2 %	1.3 %	59.2 %	49.6 %	1.4 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	3.554 ppb	0.622 ppb	5.749 ppb	141.492 %	144.348 %	-0.035 ppb	0.137 ppb	0.251 ppb	122.117 %
Concentration per Run 1	2.910 ppb	0.556 ppb	5.675 ppb	143.672 %	146.528 %	-0.047 ppb	0.114 ppb	0.238 ppb	125.124 %
Concentration per Run 2	3.917 ppb	0.664 ppb	6.413 ppb	141.169 %	145.819 %	-0.032 ppb	0.149 ppb	0.270 ppb	121.222 %
Concentration per Run 3	3.835 ppb	0.645 ppb	5.160 ppb	139.635 %	140.699 %	-0.025 ppb	0.148 ppb	0.246 ppb	120.006 %
Concentration RSD	15.7 %	9.3 %	11.0 %	1.4 %	2.2 %	32.6 %	14.4 %	6.6 %	2.2 %

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Analysis index: 77
Analysis label: WG1426709-6D50 MCP-6020TL-10
Analysis started at: 10/29/2020 1:46:28 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	148.844 %	173.848 %	0.000 ppb	24,829.012 ppb	2,811.111 ppb	3.580 ppb	939.410 ppb	1,381.718 ppb	151.548 %
Concentration per Run 1	152.941 %	179.366 %	0.003 ppb	24,049.949 ppb	2,710.422 ppb	4.547 ppb	908.371 ppb	1,300.443 ppb	154.893 %
Concentration per Run 2	148.237 %	180.002 %	0.002 ppb	25,261.013 ppb	2,840.391 ppb	3.336 ppb	980.128 ppb	1,499.729 ppb	150.661 %
Concentration per Run 3	145.354 %	162.177 %	-0.004 ppb	25,176.073 ppb	2,882.518 ppb	2.856 ppb	929.731 ppb	1,344.981 ppb	149.090 %
Concentration RSD	2.6 %	5.8 %	964.4 %	2.7 %	3.2 %	24.3 %	3.9 %	7.6 %	2.0 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	2.322 ppb	0.060 ppb	0.035 ppb	4.690 ppb	27.737 ppb	0.017 ppb	0.137 ppb	0.078 ppb	3.038 ppb
Concentration per Run 1	2.055 ppb	0.026 ppb	0.039 ppb	4.383 ppb	25.807 ppb	0.023 ppb	0.129 ppb	0.050 ppb	3.038 ppb
Concentration per Run 2	2.706 ppb	0.074 ppb	0.041 ppb	4.887 ppb	26.573 ppb	0.010 ppb	0.101 ppb	0.056 ppb	2.994 ppb
Concentration per Run 3	2.207 ppb	0.079 ppb	0.025 ppb	4.801 ppb	30.830 ppb	0.017 ppb	0.180 ppb	0.128 ppb	3.083 ppb
Concentration RSD	14.7 %	49.1 %	24.2 %	5.8 %	9.8 %	40.1 %	29.1 %	55.6 %	1.5 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	145.817 %	0.065 ppb	-0.022 ppb	19.274 ppb	0.601 ppb	134.628 %	0.001 ppb	0.004 ppb	145.477 %
Concentration per Run 1	146.742 %	0.074 ppb	-0.076 ppb	19.214 ppb	0.478 ppb	136.979 %	0.001 ppb	0.002 ppb	147.168 %
Concentration per Run 2	150.767 %	0.021 ppb	0.060 ppb	20.101 ppb	0.612 ppb	135.373 %	0.001 ppb	0.002 ppb	151.858 %
Concentration per Run 3	139.944 %	0.100 ppb	-0.050 ppb	18.506 ppb	0.715 ppb	131.533 %	0.000 ppb	0.009 ppb	137.405 %
Concentration RSD	3.8 %	61.3 %	331.5 %	4.1 %	19.8 %	2.1 %	61.6 %	90.5 %	5.1 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.539 ppb	0.301 ppb	1.079 ppb	138.167 %	140.446 %	-0.043 ppb	0.039 ppb	0.058 ppb	131.663 %
Concentration per Run 1	1.280 ppb	0.302 ppb	1.156 ppb	139.113 %	141.501 %	-0.058 ppb	0.034 ppb	0.053 ppb	133.380 %
Concentration per Run 2	1.575 ppb	0.238 ppb	1.092 ppb	141.997 %	144.478 %	-0.051 ppb	0.037 ppb	0.051 ppb	133.618 %
Concentration per Run 3	1.761 ppb	0.363 ppb	0.990 ppb	133.391 %	135.358 %	-0.019 ppb	0.046 ppb	0.070 ppb	127.991 %
Concentration RSD	15.8 %	20.7 %	7.7 %	3.2 %	3.3 %	48.2 %	15.1 %	17.8 %	2.4 %

Analysis index: 78 Analysis started at: 10/29/2020 1:51:32 PM
Analysis label: CCV User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	138.420 %	149.179 %	55.078 ppb	6,297.388 ppb	6,397.176 ppb	65.764 ppb	6,535.958 ppb	6,445.364 ppb	156.347 %
Concentration per Run 1	142.929 %	139.895 %	51.674 ppb	6,967.994 ppb	7,095.798 ppb	71.805 ppb	7,122.506 ppb	7,061.684 ppb	156.665 %
Concentration per Run 2	137.064 %	146.261 %	55.347 ppb	6,153.598 ppb	6,293.050 ppb	61.936 ppb	6,430.899 ppb	6,247.321 ppb	155.905 %
Concentration per Run 3	135.265 %	161.381 %	58.215 ppb	5,770.573 ppb	5,802.680 ppb	63.552 ppb	6,054.468 ppb	6,027.088 ppb	156.471 %
Recovery Percentage 1			91.797 %	104.956 %	106.620 %	109.607 %	108.933 %	107.423 %	
Concentration RSD	2.9 %	7.4 %	6.0 %	9.7 %	10.2 %	8.0 %	8.3 %	8.5 %	0.3 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	61.353 ppb	59.839 ppb	58.094 ppb	61.625 ppb	6,129.717 ppb	60.229 ppb	60.453 ppb	59.951 ppb	62.264 ppb
Concentration per Run 1	67.204 ppb	64.182 ppb	62.358 ppb	66.904 ppb	6,557.704 ppb	65.784 ppb	67.001 ppb	64.453 ppb	67.381 ppb
Concentration per Run 2	59.780 ppb	58.904 ppb	56.991 ppb	60.079 ppb	6,041.402 ppb	58.516 ppb	57.705 ppb	58.335 ppb	60.505 ppb
Concentration per Run 3	57.075 ppb	56.432 ppb	54.934 ppb	57.892 ppb	5,790.043 ppb	56.388 ppb	56.654 ppb	57.066 ppb	58.906 ppb
Recovery Percentage 1	102.254 %	99.732 %	96.824 %	102.709 %	102.162 %	100.382 %	100.756 %	99.919 %	103.774 %
Concentration RSD	8.5 %	6.6 %	6.6 %	7.6 %	6.4 %	8.2 %	9.4 %	6.6 %	7.2 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	131.793 %	62.610 ppb	63.559 ppb	65.941 ppb	61.976 ppb	124.174 %	61.407 ppb	62.202 ppb	134.442 %
Concentration per Run 1	130.192 %	66.813 ppb	69.243 ppb	70.700 ppb	65.027 ppb	120.759 %	65.198 ppb	66.381 ppb	133.756 %
Concentration per Run 2	131.666 %	60.737 ppb	62.109 ppb	64.478 ppb	61.772 ppb	126.503 %	59.355 ppb	60.125 ppb	133.950 %
Concentration per Run 3	133.522 %	60.280 ppb	59.325 ppb	62.643 ppb	59.130 ppb	125.261 %	59.668 ppb	60.101 ppb	135.620 %
Recovery Percentage 1		104.350 %	105.932 %	109.901 %	103.294 %		102.345 %	103.670 %	
Concentration RSD	1.3 %	5.8 %	8.0 %	6.4 %	4.8 %	2.4 %	5.4 %	5.8 %	0.8 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	62.962 ppb	62.442 ppb	63.293 ppb	129.599 %	133.359 %	59.691 ppb	61.586 ppb	62.016 ppb	124.143 %
Concentration per Run 1	66.654 ppb	67.524 ppb	69.426 ppb	127.224 %	131.414 %	63.514 ppb	66.363 ppb	67.221 ppb	121.157 %
Concentration per Run 2	61.717 ppb	60.366 ppb	60.388 ppb	129.611 %	132.184 %	58.580 ppb	59.471 ppb	59.914 ppb	123.804 %
Concentration per Run 3	60.514 ppb	59.436 ppb	60.064 ppb	131.961 %	136.479 %	56.979 ppb	58.923 ppb	58.913 ppb	127.467 %
Recovery Percentage 1	104.936 %	104.070 %	105.488 %			99.486 %	102.643 %	103.360 %	
Concentration RSD	5.2 %	7.1 %	8.4 %	1.8 %	2.0 %	5.7 %	6.7 %	7.3 %	2.6 %

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Analysis label: CCB User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	120.791 %	141.486 %	0.003 ppb	-0.886 ppb	0.449 ppb	-0.020 ppb	-2.127 ppb	3.650 ppb	121.393 %
Concentration per Run 1	122.509 %	145.147 %	0.006 ppb	0.462 ppb	1.012 ppb	-0.008 ppb	-2.166 ppb	6.438 ppb	120.471 %
Concentration per Run 2	118.946 %	134.802 %	-0.001 ppb	-0.800 ppb	-0.394 ppb	0.059 ppb	0.825 ppb	1.768 ppb	119.778 %
Concentration per Run 3	120.918 %	144.510 %	0.004 ppb	-2.320 ppb	0.728 ppb	-0.111 ppb	-5.040 ppb	2.743 ppb	123.928 %
Recovery Percentage 1			0.577 %	-0.886 %	0.641 %	-0.201 %	-2.127 %	3.650 %	
Concentration RSD	1.5 %	4.1 %	135.2 %	157.2 %	165.7 %	427.7 %	137.9 %	67.5 %	1.8 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.181 ppb	-0.018 ppb	0.015 ppb	0.028 ppb	18.863 ppb	0.000 ppb	0.056 ppb	-0.010 ppb	0.008 ppb
Concentration per Run 1	0.255 ppb	-0.036 ppb	0.019 ppb	0.045 ppb	16.783 ppb	0.000 ppb	-0.001 ppb	0.002 ppb	0.007 ppb
Concentration per Run 2	0.038 ppb	0.007 ppb	0.032 ppb	0.035 ppb	24.252 ppb	0.000 ppb	0.111 ppb	-0.004 ppb	0.054 ppb
Concentration per Run 3	0.252 ppb	-0.025 ppb	-0.006 ppb	0.003 ppb	15.553 ppb	0.000 ppb	0.056 ppb	-0.029 ppb	-0.036 ppb
Recovery Percentage 1	36.280 %	-0.364 %	1.518 %	2.760 %	37.725 %	0.000 %	2.775 %	-1.046 %	0.084 %
Concentration RSD	68.6 %	123.5 %	124.9 %	79.8 %	25.0 %	N/A	101.2 %	153.0 %	529.5 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	124.856 %	0.052 ppb	0.134 ppb	0.003 ppb	0.782 ppb	120.364 %	0.004 ppb	0.001 ppb	129.777 %
Concentration per Run 1	126.422 %	0.049 ppb	0.067 ppb	0.007 ppb	0.663 ppb	120.885 %	0.004 ppb	0.004 ppb	134.331 %
Concentration per Run 2	118.957 %	0.047 ppb	0.192 ppb	0.003 ppb	0.781 ppb	118.173 %	0.004 ppb	0.000 ppb	125.607 %
Concentration per Run 3	129.190 %	0.061 ppb	0.143 ppb	0.000 ppb	0.902 ppb	122.034 %	0.005 ppb	0.000 ppb	129.392 %
Recovery Percentage 1		10.496 %	2.679 %	0.687 %	39.093 %		1.032 %	0.744 %	
Concentration RSD	4.2 %	14.8 %	47.2 %	109.2 %	15.3 %	1.6 %	11.6 %	173.2 %	3.4 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.296 ppb	0.162 ppb	0.030 ppb	123.497 %	127.042 %	0.958 ppb	0.332 ppb	0.035 ppb	121.523 %
Concentration per Run 1	1.390 ppb	0.167 ppb	0.056 ppb	125.223 %	130.214 %	0.825 ppb	0.336 ppb	0.032 ppb	122.901 %
Concentration per Run 2	1.227 ppb	0.147 ppb	0.001 ppb	119.646 %	121.599 %	1.031 ppb	0.349 ppb	0.036 ppb	118.516 %
Concentration per Run 3	1.272 ppb	0.172 ppb	0.033 ppb	125.622 %	129.315 %	1.018 ppb	0.312 ppb	0.038 ppb	123.151 %
Recovery Percentage 1	43.204 %	4.055 %	6.011 %			47.898 %	66.470 %	3.513 %	
Concentration RSD	6.5 %	8.2 %	90.7 %	2.7 %	3.7 %	12.0 %	5.7 %	7.5 %	2.1 %

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Analysis index: 80
Analysis label: L2046790-01 6020TL
Analysis started at: 10/29/2020 2:02:22 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	133.406 %	162.548 %	0.904 ppb	173,550.456 ppb	3,992.356 ppb	6,715.465 ppb	9,281.554 ppb	33,438.359 ppb	155.659 %
Concentration per Run 1	143.301 %	156.288 %	0.838 ppb	172,497.992 ppb	3,982.224 ppb	6,580.260 ppb	9,146.589 ppb	33,296.706 ppb	161.733 %
Concentration per Run 2	132.213 %	163.768 %	0.851 ppb	176,653.419 ppb	4,073.231 ppb	6,885.250 ppb	9,375.904 ppb	34,127.371 ppb	154.176 %
Concentration per Run 3	124.704 %	167.588 %	1.025 ppb	171,499.958 ppb	3,921.614 ppb	6,680.884 ppb	9,322.170 ppb	32,891.000 ppb	151.067 %
Concentration RSD	7.0 %	3.5 %	11.6 %	1.6 %	1.9 %	2.3 %	1.3 %	1.9 %	3.5 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	105.044 ppb	33.585 ppb	116.871 ppb	1,628.045 ppb	22,010.603 ppb	29.066 ppb	21.755 ppb	68.486 ppb	292.898 ppb
Concentration per Run 1	110.632 ppb	33.522 ppb	119.284 ppb	1,627.272 ppb	22,485.997 ppb	29.530 ppb	22.569 ppb	72.223 ppb	302.415 ppb
Concentration per Run 2	102.664 ppb	33.447 ppb	116.271 ppb	1,648.477 ppb	21,937.811 ppb	29.444 ppb	21.373 ppb	67.342 ppb	291.452 ppb
Concentration per Run 3	101.835 ppb	33.787 ppb	115.058 ppb	1,608.386 ppb	21,608.001 ppb	28.223 ppb	21.323 ppb	65.891 ppb	284.826 ppb
Concentration RSD	4.6 %	0.5 %	1.9 %	1.2 %	2.0 %	2.5 %	3.2 %	4.8 %	3.0 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	135.683 %	15.949 ppb	7.633 ppb	204.919 ppb	7.572 ppb	121.346 %	0.036 ppb	0.693 ppb	135.600 %
Concentration per Run 1	126.013 %	17.003 ppb	8.257 ppb	210.371 ppb	8.009 ppb	118.054 %	0.029 ppb	0.673 ppb	130.822 %
Concentration per Run 2	140.912 %	15.266 ppb	7.670 ppb	204.886 ppb	7.294 ppb	121.688 %	0.042 ppb	0.712 ppb	135.805 %
Concentration per Run 3	140.123 %	15.578 ppb	6.971 ppb	199.499 ppb	7.412 ppb	124.296 %	0.036 ppb	0.694 ppb	140.174 %
Concentration RSD	6.2 %	5.8 %	8.4 %	2.7 %	5.1 %	2.6 %	19.1 %	2.8 %	3.5 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.580 ppb	0.839 ppb	112.386 ppb	131.075 %	129.608 %	0.321 ppb	0.317 ppb	17.706 ppb	115.505 %
Concentration per Run 1	1.542 ppb	0.865 ppb	113.489 ppb	128.288 %	124.833 %	0.260 ppb	0.303 ppb	18.119 ppb	112.862 %
Concentration per Run 2	1.548 ppb	0.809 ppb	114.741 ppb	131.933 %	131.250 %	0.330 ppb	0.343 ppb	17.820 ppb	115.469 %
Concentration per Run 3	1.649 ppb	0.842 ppb	108.926 ppb	133.005 %	132.741 %	0.372 ppb	0.306 ppb	17.180 ppb	118.183 %
Concentration RSD	3.8 %	3.3 %	2.7 %	1.9 %	3.2 %	17.6 %	7.0 %	2.7 %	2.3 %

Analysis index: 81
Analysis label: L2046790-02 6020TL
Analysis started at: 10/29/2020 2:07:27 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	150.747 %	181.329 %	0.143 ppb	214,221.747 ppb	5,881.244 ppb	246.250 ppb	14,837.935 ppb	53,132.539 ppb	159.040 %
Concentration per Run 1	152.938 %	173.318 %	0.139 ppb	214,483.664 ppb	5,871.533 ppb	245.094 ppb	14,736.201 ppb	52,940.410 ppb	157.548 %
Concentration per Run 2	149.882 %	186.528 %	0.138 ppb	211,103.782 ppb	5,725.299 ppb	248.391 ppb	14,552.169 ppb	52,351.709 ppb	158.854 %
Concentration per Run 3	149.420 %	184.141 %	0.152 ppb	217,077.794 ppb	6,046.900 ppb	245.266 ppb	15,225.436 ppb	54,105.500 ppb	160.717 %
Concentration RSD	1.3 %	3.9 %	5.5 %	1.4 %	2.7 %	0.8 %	2.3 %	1.7 %	1.0 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	80.675 ppb	1.123 ppb	2.464 ppb	87.509 ppb	631.705 ppb	1.562 ppb	1.818 ppb	32.623 ppb	14.345 ppb
Concentration per Run 1	80.347 ppb	1.193 ppb	2.389 ppb	86.421 ppb	632.408 ppb	1.615 ppb	1.899 ppb	32.255 ppb	14.835 ppb
Concentration per Run 2	78.897 ppb	1.178 ppb	2.554 ppb	86.885 ppb	616.528 ppb	1.463 ppb	1.729 ppb	32.718 ppb	13.942 ppb
Concentration per Run 3	82.782 ppb	0.997 ppb	2.451 ppb	89.220 ppb	646.178 ppb	1.607 ppb	1.827 ppb	32.896 ppb	14.260 ppb
Concentration RSD	2.4 %	9.7 %	3.4 %	1.7 %	2.3 %	5.5 %	4.7 %	1.0 %	3.2 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	151.150 %	1.362 ppb	1.165 ppb	375.146 ppb	1.362 ppb	133.876 %	0.008 ppb	0.007 ppb	146.445 %
Concentration per Run 1	145.627 %	1.415 ppb	0.944 ppb	372.491 ppb	1.361 ppb	131.860 %	0.008 ppb	0.006 ppb	141.918 %
Concentration per Run 2	155.090 %	1.316 ppb	1.041 ppb	372.068 ppb	1.348 ppb	135.276 %	0.008 ppb	0.006 ppb	148.577 %
Concentration per Run 3	152.732 %	1.354 ppb	1.511 ppb	380.879 ppb	1.376 ppb	134.493 %	0.008 ppb	0.008 ppb	148.840 %
Concentration RSD	3.3 %	3.7 %	26.0 %	1.3 %	1.0 %	1.3 %	2.1 %	16.2 %	2.7 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.779 ppb	0.164 ppb	54.461 ppb	142.048 %	143.440 %	0.123 ppb	0.136 ppb	1.240 ppb	119.949 %
Concentration per Run 1	0.680 ppb	0.122 ppb	53.693 ppb	140.668 %	140.806 %	0.070 ppb	0.123 ppb	1.197 ppb	118.453 %
Concentration per Run 2	0.787 ppb	0.169 ppb	54.703 ppb	142.620 %	145.474 %	0.114 ppb	0.133 ppb	1.234 ppb	119.930 %
Concentration per Run 3	0.870 ppb	0.202 ppb	54.986 ppb	142.856 %	144.040 %	0.187 ppb	0.151 ppb	1.291 ppb	121.463 %
Concentration RSD	12.3 %	24.5 %	1.2 %	0.8 %	1.7 %	48.0 %	10.2 %	3.8 %	1.3 %

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Analysis index: 82
Analysis label: L2046790-03 6020TL
Analysis started at: 10/29/2020 2:12:32 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	143.606 %	174.485 %	1.257 ppb	99,616.665 ppb	3,337.344 ppb	5,105.950 ppb	6,613.924 ppb	34,188.372 ppb	164.360 %
Concentration per Run 1	145.944 %	170.771 %	1.243 ppb	100,232.280 ppb	3,321.403 ppb	5,125.361 ppb	6,659.574 ppb	33,996.081 ppb	164.749 %
Concentration per Run 2	141.671 %	179.048 %	1.296 ppb	98,098.465 ppb	3,290.636 ppb	5,016.200 ppb	6,621.422 ppb	34,005.591 ppb	164.058 %
Concentration per Run 3	143.203 %	173.636 %	1.233 ppb	100,519.248 ppb	3,399.994 ppb	5,176.289 ppb	6,560.775 ppb	34,563.444 ppb	164.274 %
Concentration RSD	1.5 %	2.4 %	2.7 %	1.3 %	1.7 %	1.6 %	0.8 %	1.0 %	0.2 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	100.605 ppb	17.202 ppb	35.254 ppb	855.511 ppb	10,414.122 ppb	10.987 ppb	6.102 ppb	114.034 ppb	96.854 ppb
Concentration per Run 1	101.945 ppb	16.202 ppb	34.921 ppb	843.407 ppb	10,408.758 ppb	10.906 ppb	5.788 ppb	112.257 ppb	96.206 ppb
Concentration per Run 2	97.431 ppb	17.349 ppb	34.936 ppb	859.115 ppb	10,488.513 ppb	10.803 ppb	6.355 ppb	115.886 ppb	97.529 ppb
Concentration per Run 3	102.441 ppb	18.054 ppb	35.903 ppb	864.010 ppb	10,345.094 ppb	11.251 ppb	6.164 ppb	113.958 ppb	96.827 ppb
Concentration RSD	2.7 %	5.4 %	1.6 %	1.3 %	0.7 %	2.1 %	4.7 %	1.6 %	0.7 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	152.480 %	13.218 ppb	12.553 ppb	183.615 ppb	2.738 ppb	132.606 %	0.018 ppb	0.164 ppb	147.224 %
Concentration per Run 1	152.046 %	12.953 ppb	12.978 ppb	179.434 ppb	2.480 ppb	134.671 %	0.018 ppb	0.155 ppb	149.045 %
Concentration per Run 2	152.810 %	13.445 ppb	12.358 ppb	185.289 ppb	3.010 ppb	132.319 %	0.019 ppb	0.135 ppb	145.885 %
Concentration per Run 3	152.582 %	13.255 ppb	12.323 ppb	186.122 ppb	2.722 ppb	130.828 %	0.016 ppb	0.203 ppb	146.742 %
Concentration RSD	0.3 %	1.9 %	2.9 %	2.0 %	9.7 %	1.5 %	8.8 %	21.2 %	1.1 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.001 ppb	0.490 ppb	138.785 ppb	141.338 %	138.711 %	0.082 ppb	0.132 ppb	10.810 ppb	124.770 %
Concentration per Run 1	0.967 ppb	0.474 ppb	136.926 ppb	144.290 %	141.548 %	0.052 ppb	0.123 ppb	10.465 ppb	127.609 %
Concentration per Run 2	1.079 ppb	0.499 ppb	138.287 ppb	140.088 %	137.085 %	0.080 ppb	0.140 ppb	10.994 ppb	123.001 %
Concentration per Run 3	0.958 ppb	0.497 ppb	141.142 ppb	139.635 %	137.500 %	0.113 ppb	0.135 ppb	10.971 ppb	123.701 %
Concentration RSD	6.7 %	2.8 %	1.6 %	1.8 %	1.8 %	37.6 %	6.6 %	2.8 %	2.0 %

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Analysis index: 83
Analysis label: L2046790-04 6020TL
Analysis started at: 10/29/2020 2:17:37 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	138.493 %	162.018 %	2.011 ppb	46,059.543 ppb	5,578.847 ppb	10,793.278 ppb	4,733.445 ppb	50,668.290 ppb	157.688 %
Concentration per Run 1	148.989 %	154.060 %	1.856 ppb	47,887.422 ppb	5,854.286 ppb	11,230.599 ppb	4,925.913 ppb	52,184.466 ppb	165.808 %
Concentration per Run 2	135.826 %	168.861 %	2.107 ppb	45,015.252 ppb	5,409.397 ppb	10,485.436 ppb	4,626.278 ppb	49,849.278 ppb	154.445 %
Concentration per Run 3	130.663 %	163.132 %	2.070 ppb	45,275.956 ppb	5,472.858 ppb	10,663.799 ppb	4,648.145 ppb	49,971.125 ppb	152.812 %
Concentration RSD	6.8 %	4.6 %	6.7 %	3.4 %	4.3 %	3.6 %	3.5 %	2.6 %	4.5 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	123.381 ppb	22.011 ppb	140.531 ppb	1,656.681 ppb	15,210.012 ppb	33.089 ppb	27.653 ppb	115.113 ppb	667.778 ppb
Concentration per Run 1	128.740 ppb	22.647 ppb	143.927 ppb	1,700.571 ppb	15,590.956 ppb	34.231 ppb	28.997 ppb	117.939 ppb	686.471 ppb
Concentration per Run 2	120.891 ppb	21.275 ppb	139.848 ppb	1,639.160 ppb	15,104.953 ppb	32.968 ppb	27.537 ppb	113.731 ppb	660.983 ppb
Concentration per Run 3	120.513 ppb	22.112 ppb	137.818 ppb	1,630.313 ppb	14,934.127 ppb	32.066 ppb	26.425 ppb	113.669 ppb	655.881 ppb
Concentration RSD	3.8 %	3.1 %	2.2 %	2.3 %	2.2 %	3.3 %	4.7 %	2.1 %	2.5 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	151.465 %	27.192 ppb	41.271 ppb	274.393 ppb	3.997 ppb	127.798 %	0.021 ppb	1.594 ppb	142.042 %
Concentration per Run 1	149.767 %	28.149 ppb	41.820 ppb	277.350 ppb	4.070 ppb	127.231 %	0.021 ppb	1.638 ppb	142.714 %
Concentration per Run 2	151.337 %	27.254 ppb	40.951 ppb	274.391 ppb	3.727 ppb	128.482 %	0.024 ppb	1.536 ppb	142.941 %
Concentration per Run 3	153.292 %	26.173 ppb	41.042 ppb	271.439 ppb	4.193 ppb	127.680 %	0.020 ppb	1.607 ppb	140.471 %
Concentration RSD	1.2 %	3.6 %	1.2 %	1.1 %	6.0 %	0.5 %	9.5 %	3.3 %	1.0 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.050 ppb	0.790 ppb	379.223 ppb	139.131 %	131.109 %	0.087 ppb	0.164 ppb	212.508 ppb	122.892 %
Concentration per Run 1	0.971 ppb	0.738 ppb	380.095 ppb	139.861 %	130.364 %	0.061 ppb	0.149 ppb	213.309 ppb	121.914 %
Concentration per Run 2	1.090 ppb	0.782 ppb	379.852 ppb	139.549 %	132.167 %	0.087 ppb	0.172 ppb	211.086 ppb	125.024 %
Concentration per Run 3	1.091 ppb	0.849 ppb	377.723 ppb	137.983 %	130.796 %	0.113 ppb	0.171 ppb	213.129 ppb	121.737 %
Concentration RSD	6.6 %	7.1 %	0.3 %	0.7 %	0.7 %	30.3 %	8.0 %	0.6 %	1.5 %

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Analysis index: 84
Analysis label: L2046058-01D10 MCP-6020TL-10
Analysis started at: 10/29/2020 2:22:42 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	132.859 %	153.211 %	-0.002 ppb	6,788.802 ppb	494.584 ppb	2.585 ppb	317.440 ppb	1,982.714 ppb	131.685 %
Concentration per Run 1	119.809 %	152.468 %	-0.004 ppb	6,917.422 ppb	505.459 ppb	2.728 ppb	320.367 ppb	1,958.991 ppb	118.148 %
Concentration per Run 2	140.861 %	148.171 %	-0.003 ppb	7,040.743 ppb	522.825 ppb	2.730 ppb	346.311 ppb	2,106.014 ppb	140.260 %
Concentration per Run 3	137.906 %	158.994 %	0.000 ppb	6,408.240 ppb	455.468 ppb	2.297 ppb	285.643 ppb	1,883.139 ppb	136.646 %
Concentration RSD	8.6 %	3.6 %	76.4 %	4.9 %	7.1 %	9.6 %	9.6 %	5.7 %	9.0 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	3.134 ppb	-0.030 ppb	0.089 ppb	12.601 ppb	109.715 ppb	0.025 ppb	0.106 ppb	0.089 ppb	0.574 ppb
Concentration per Run 1	3.129 ppb	-0.063 ppb	0.089 ppb	12.388 ppb	110.232 ppb	0.032 ppb	0.175 ppb	0.080 ppb	0.532 ppb
Concentration per Run 2	3.051 ppb	-0.039 ppb	0.104 ppb	13.607 ppb	126.439 ppb	0.029 ppb	0.110 ppb	0.103 ppb	0.702 ppb
Concentration per Run 3	3.222 ppb	0.012 ppb	0.073 ppb	11.809 ppb	92.476 ppb	0.014 ppb	0.034 ppb	0.082 ppb	0.487 ppb
Concentration RSD	2.7 %	129.3 %	17.8 %	7.3 %	15.5 %	39.8 %	66.5 %	14.1 %	19.8 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	136.496 %	0.149 ppb	0.097 ppb	10.374 ppb	0.247 ppb	129.646 %	0.001 ppb	0.000 ppb	139.536 %
Concentration per Run 1	135.377 %	0.111 ppb	0.003 ppb	10.531 ppb	0.212 ppb	129.470 %	0.000 ppb	0.000 ppb	139.308 %
Concentration per Run 2	132.183 %	0.206 ppb	0.240 ppb	11.019 ppb	0.289 ppb	125.519 %	0.000 ppb	0.000 ppb	135.014 %
Concentration per Run 3	141.928 %	0.130 ppb	0.046 ppb	9.571 ppb	0.242 ppb	133.948 %	0.002 ppb	0.000 ppb	144.287 %
Concentration RSD	3.6 %	33.7 %	130.5 %	7.1 %	15.8 %	3.3 %	120.1 %	N/A	3.3 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.318 ppb	0.071 ppb	3.569 ppb	133.090 %	135.585 %	-0.003 ppb	0.026 ppb	0.114 ppb	129.649 %
Concentration per Run 1	0.274 ppb	0.079 ppb	3.674 ppb	132.022 %	134.114 %	-0.026 ppb	0.020 ppb	0.120 ppb	128.384 %
Concentration per Run 2	0.349 ppb	0.074 ppb	3.739 ppb	130.519 %	133.169 %	-0.001 ppb	0.032 ppb	0.120 ppb	126.349 %
Concentration per Run 3	0.331 ppb	0.062 ppb	3.295 ppb	136.729 %	139.472 %	0.018 ppb	0.027 ppb	0.104 ppb	134.214 %
Concentration RSD	12.3 %	12.3 %	6.7 %	2.4 %	2.5 %	748.6 %	23.8 %	8.2 %	3.1 %

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Analysis index: 85
Analysis label: L2046058-02D10 MCP-6020TL-10
Analysis started at: 10/29/2020 2:27:47 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	127.355 %	145.412 %	-0.001 ppb	6,724.394 ppb	475.002 ppb	2.359 ppb	301.405 ppb	1,837.706 ppb	129.713 %
Concentration per Run 1	136.673 %	145.306 %	-0.001 ppb	6,728.434 ppb	485.218 ppb	2.989 ppb	312.235 ppb	1,866.581 ppb	138.236 %
Concentration per Run 2	126.086 %	146.261 %	-0.004 ppb	6,721.754 ppb	478.736 ppb	1.954 ppb	316.366 ppb	1,845.176 ppb	126.665 %
Concentration per Run 3	119.305 %	144.669 %	0.002 ppb	6,722.995 ppb	461.051 ppb	2.133 ppb	275.613 ppb	1,801.360 ppb	124.237 %
Concentration RSD	6.9 %	0.6 %	251.7 %	0.1 %	2.6 %	23.5 %	7.4 %	1.8 %	5.8 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	2.908 ppb	0.005 ppb	0.118 ppb	10.703 ppb	84.105 ppb	0.009 ppb	0.110 ppb	0.081 ppb	0.765 ppb
Concentration per Run 1	3.034 ppb	-0.026 ppb	0.146 ppb	10.721 ppb	81.709 ppb	0.007 ppb	0.097 ppb	0.104 ppb	0.862 ppb
Concentration per Run 2	2.806 ppb	0.008 ppb	0.103 ppb	10.997 ppb	86.010 ppb	0.015 ppb	0.095 ppb	0.026 ppb	0.801 ppb
Concentration per Run 3	2.886 ppb	0.033 ppb	0.105 ppb	10.392 ppb	84.595 ppb	0.004 ppb	0.138 ppb	0.112 ppb	0.632 ppb
Concentration RSD	4.0 %	599.6 %	20.4 %	2.8 %	2.6 %	64.7 %	22.1 %	58.8 %	15.6 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	132.989 %	0.147 ppb	0.023 ppb	9.956 ppb	0.181 ppb	126.132 %	0.001 ppb	0.001 ppb	135.745 %
Concentration per Run 1	131.307 %	0.173 ppb	0.033 ppb	10.115 ppb	0.039 ppb	125.995 %	0.003 ppb	0.000 ppb	135.354 %
Concentration per Run 2	134.338 %	0.140 ppb	0.005 ppb	9.877 ppb	0.217 ppb	126.728 %	0.000 ppb	0.002 ppb	136.513 %
Concentration per Run 3	133.321 %	0.128 ppb	0.031 ppb	9.877 ppb	0.288 ppb	125.673 %	-0.001 ppb	0.000 ppb	135.366 %
Concentration RSD	1.2 %	15.8 %	69.2 %	1.4 %	70.8 %	0.4 %	219.3 %	173.2 %	0.5 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.261 ppb	0.059 ppb	3.438 ppb	129.689 %	132.893 %	-0.013 ppb	0.021 ppb	0.050 ppb	126.126 %
Concentration per Run 1	0.143 ppb	0.051 ppb	3.582 ppb	129.411 %	133.440 %	-0.036 ppb	0.015 ppb	0.050 ppb	125.089 %
Concentration per Run 2	0.268 ppb	0.052 ppb	3.334 ppb	130.273 %	132.741 %	-0.012 ppb	0.022 ppb	0.050 ppb	127.858 %
Concentration per Run 3	0.372 ppb	0.075 ppb	3.398 ppb	129.383 %	132.497 %	0.008 ppb	0.026 ppb	0.051 ppb	125.432 %
Concentration RSD	43.8 %	22.9 %	3.7 %	0.4 %	0.4 %	168.8 %	26.4 %	1.1 %	1.2 %

Analysis index: 86
Analysis label: L2046058-03D10 MCP-6020TL-10
Analysis started at: 10/29/2020 2:32:52 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	133.175 %	147.110 %	-0.003 ppb	6,531.486 ppb	462.283 ppb	2.552 ppb	297.958 ppb	1,802.539 ppb	137.529 %
Concentration per Run 1	137.659 %	146.102 %	-0.005 ppb	6,546.006 ppb	449.234 ppb	2.269 ppb	291.044 ppb	1,825.719 ppb	140.633 %
Concentration per Run 2	132.836 %	150.240 %	-0.001 ppb	6,454.038 ppb	454.108 ppb	2.525 ppb	292.914 ppb	1,749.156 ppb	137.735 %
Concentration per Run 3	129.031 %	144.988 %	-0.004 ppb	6,594.413 ppb	483.506 ppb	2.861 ppb	309.917 ppb	1,832.741 ppb	134.219 %
Concentration RSD	3.2 %	1.9 %	50.9 %	1.1 %	4.0 %	11.6 %	3.5 %	2.6 %	2.3 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	2.696 ppb	0.024 ppb	0.082 ppb	9.181 ppb	81.835 ppb	0.011 ppb	0.104 ppb	0.129 ppb	0.457 ppb
Concentration per Run 1	2.907 ppb	0.045 ppb	0.073 ppb	9.224 ppb	81.198 ppb	0.007 ppb	0.125 ppb	0.170 ppb	0.492 ppb
Concentration per Run 2	2.624 ppb	-0.017 ppb	0.094 ppb	9.067 ppb	80.710 ppb	0.011 ppb	0.052 ppb	0.072 ppb	0.449 ppb
Concentration per Run 3	2.555 ppb	0.043 ppb	0.080 ppb	9.252 ppb	83.597 ppb	0.015 ppb	0.136 ppb	0.146 ppb	0.430 ppb
Concentration RSD	6.9 %	147.0 %	12.8 %	1.1 %	1.9 %	32.8 %	43.9 %	39.7 %	6.9 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	134.220 %	0.126 ppb	-0.030 ppb	9.787 ppb	0.184 ppb	125.920 %	0.001 ppb	0.002 ppb	137.381 %
Concentration per Run 1	132.140 %	0.115 ppb	-0.071 ppb	9.830 ppb	0.125 ppb	125.497 %	0.002 ppb	0.004 ppb	136.152 %
Concentration per Run 2	135.202 %	0.132 ppb	-0.021 ppb	9.700 ppb	0.148 ppb	126.756 %	-0.001 ppb	0.000 ppb	138.714 %
Concentration per Run 3	135.319 %	0.132 ppb	0.004 ppb	9.830 ppb	0.278 ppb	125.507 %	0.001 ppb	0.002 ppb	137.277 %
Concentration RSD	1.3 %	7.7 %	129.6 %	0.8 %	44.9 %	0.6 %	336.3 %	100.2 %	0.9 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.141 ppb	0.051 ppb	3.308 ppb	130.298 %	133.231 %	-0.021 ppb	0.018 ppb	0.042 ppb	127.656 %
Concentration per Run 1	0.062 ppb	0.037 ppb	3.443 ppb	129.260 %	132.482 %	-0.043 ppb	0.017 ppb	0.039 ppb	126.672 %
Concentration per Run 2	0.054 ppb	0.053 ppb	3.384 ppb	130.659 %	134.598 %	-0.015 ppb	0.018 ppb	0.041 ppb	127.900 %
Concentration per Run 3	0.307 ppb	0.065 ppb	3.096 ppb	130.974 %	132.614 %	-0.006 ppb	0.020 ppb	0.047 ppb	128.396 %
Concentration RSD	102.1 %	26.9 %	5.6 %	0.7 %	0.9 %	90.3 %	9.4 %	9.7 %	0.7 %

Analysis index: 87
Analysis label: L2046058-04D20 MCP-6020TL-10
Analysis started at: 10/29/2020 2:37:57 PM
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Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	130.001 %	140.266 %	0.063 ppb	2,829.191 ppb	345.174 ppb	545.275 ppb	191.050 ppb	1,360.306 ppb	133.946 %
Concentration per Run 1	127.097 %	140.691 %	0.065 ppb	2,773.335 ppb	349.133 ppb	532.246 ppb	192.775 ppb	1,296.925 ppb	130.459 %
Concentration per Run 2	130.008 %	142.919 %	0.065 ppb	2,796.281 ppb	324.627 ppb	542.193 ppb	188.353 ppb	1,400.384 ppb	135.444 %
Concentration per Run 3	132.898 %	137.189 %	0.059 ppb	2,917.957 ppb	361.762 ppb	561.387 ppb	192.022 ppb	1,383.608 ppb	135.936 %
Concentration RSD	2.2 %	2.1 %	5.0 %	2.7 %	5.5 %	2.7 %	1.2 %	4.1 %	2.3 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	15.240 ppb	2.689 ppb	0.799 ppb	17.434 ppb	1,089.029 ppb	0.443 ppb	1.307 ppb	2.180 ppb	9.572 ppb
Concentration per Run 1	14.679 ppb	2.782 ppb	0.775 ppb	17.578 ppb	1,077.506 ppb	0.401 ppb	1.262 ppb	2.057 ppb	9.663 ppb
Concentration per Run 2	15.609 ppb	2.548 ppb	0.841 ppb	17.339 ppb	1,099.071 ppb	0.431 ppb	1.404 ppb	2.270 ppb	9.248 ppb
Concentration per Run 3	15.431 ppb	2.737 ppb	0.780 ppb	17.386 ppb	1,090.510 ppb	0.496 ppb	1.254 ppb	2.213 ppb	9.806 ppb
Concentration RSD	3.2 %	4.6 %	4.6 %	0.7 %	1.0 %	11.0 %	6.5 %	5.1 %	3.0 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	131.455 %	1.007 ppb	0.121 ppb	12.380 ppb	0.120 ppb	125.460 %	0.014 ppb	0.117 ppb	134.862 %
Concentration per Run 1	132.865 %	1.057 ppb	0.006 ppb	12.252 ppb	0.013 ppb	125.803 %	0.015 ppb	0.108 ppb	134.659 %
Concentration per Run 2	132.238 %	0.971 ppb	0.188 ppb	12.310 ppb	0.090 ppb	125.926 %	0.017 ppb	0.137 ppb	136.674 %
Concentration per Run 3	129.263 %	0.994 ppb	0.168 ppb	12.578 ppb	0.258 ppb	124.651 %	0.010 ppb	0.104 ppb	133.253 %
Concentration RSD	1.5 %	4.4 %	82.7 %	1.4 %	104.3 %	0.6 %	23.5 %	15.5 %	1.3 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.200 ppb	0.063 ppb	23.997 ppb	128.760 %	131.624 %	-0.010 ppb	0.026 ppb	4.698 ppb	126.729 %
Concentration per Run 1	0.257 ppb	0.060 ppb	24.009 ppb	130.020 %	133.404 %	-0.001 ppb	0.023 ppb	4.656 ppb	129.331 %
Concentration per Run 2	0.168 ppb	0.059 ppb	23.691 ppb	129.840 %	131.514 %	-0.027 ppb	0.026 ppb	4.655 ppb	126.891 %
Concentration per Run 3	0.174 ppb	0.070 ppb	24.292 ppb	126.419 %	129.954 %	-0.003 ppb	0.029 ppb	4.783 ppb	123.966 %
Concentration RSD	24.9 %	10.0 %	1.3 %	1.6 %	1.3 %	143.7 %	11.8 %	1.6 %	2.1 %

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Analysis index: 88
Analysis label: L2046058-05D10 MCP-6020TL-10
Analysis started at: 10/29/2020 2:43:03 PM
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Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	127.240 %	150.240 %	0.001 ppb	7,295.666 ppb	829.213 ppb	4.152 ppb	295.290 ppb	2,574.267 ppb	131.930 %
Concentration per Run 1	130.768 %	148.171 %	0.000 ppb	7,339.086 ppb	834.684 ppb	3.101 ppb	304.084 ppb	2,565.244 ppb	132.525 %
Concentration per Run 2	127.355 %	156.288 %	0.002 ppb	7,099.481 ppb	805.126 ppb	4.816 ppb	277.939 ppb	2,529.815 ppb	132.797 %
Concentration per Run 3	123.597 %	146.261 %	0.001 ppb	7,448.430 ppb	847.829 ppb	4.539 ppb	303.847 ppb	2,627.742 ppb	130.468 %
Concentration RSD	2.8 %	3.5 %	150.0 %	2.4 %	2.6 %	22.2 %	5.1 %	1.9 %	1.0 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	3.571 ppb	0.038 ppb	0.092 ppb	95.088 ppb	444.804 ppb	0.149 ppb	0.309 ppb	0.026 ppb	1.859 ppb
Concentration per Run 1	3.380 ppb	0.050 ppb	0.094 ppb	94.260 ppb	446.211 ppb	0.190 ppb	0.297 ppb	0.023 ppb	1.745 ppb
Concentration per Run 2	3.428 ppb	0.029 ppb	0.082 ppb	93.969 ppb	430.471 ppb	0.141 ppb	0.344 ppb	0.054 ppb	1.855 ppb
Concentration per Run 3	3.905 ppb	0.035 ppb	0.099 ppb	97.033 ppb	457.731 ppb	0.116 ppb	0.286 ppb	0.000 ppb	1.978 ppb
Concentration RSD	8.1 %	28.6 %	9.4 %	1.8 %	3.1 %	25.1 %	10.0 %	105.5 %	6.3 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	128.615 %	0.151 ppb	0.045 ppb	17.476 ppb	0.030 ppb	122.524 %	0.000 ppb	0.009 ppb	132.013 %
Concentration per Run 1	123.521 %	0.164 ppb	0.043 ppb	17.169 ppb	0.034 ppb	122.408 %	-0.001 ppb	0.009 ppb	129.735 %
Concentration per Run 2	132.825 %	0.114 ppb	0.110 ppb	17.483 ppb	0.056 ppb	124.804 %	0.001 ppb	0.009 ppb	134.691 %
Concentration per Run 3	129.499 %	0.176 ppb	-0.017 ppb	17.777 ppb	-0.002 ppb	120.359 %	0.000 ppb	0.009 ppb	131.613 %
Concentration RSD	3.7 %	21.5 %	140.2 %	1.7 %	99.2 %	1.8 %	13,862.9 %	1.7 %	1.9 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.121 ppb	0.033 ppb	10.936 ppb	126.968 %	130.780 %	-0.049 ppb	0.013 ppb	0.049 ppb	125.401 %
Concentration per Run 1	0.045 ppb	0.025 ppb	10.923 ppb	126.610 %	130.980 %	-0.068 ppb	0.013 ppb	0.049 ppb	125.748 %
Concentration per Run 2	0.066 ppb	0.024 ppb	10.328 ppb	126.190 %	130.705 %	-0.039 ppb	0.007 ppb	0.048 ppb	126.159 %
Concentration per Run 3	0.252 ppb	0.048 ppb	11.555 ppb	128.103 %	130.655 %	-0.039 ppb	0.019 ppb	0.049 ppb	124.296 %
Concentration RSD	94.4 %	42.1 %	5.6 %	0.8 %	0.1 %	35.2 %	45.0 %	0.7 %	0.8 %

Alpha ICPMSQ Full

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Analysis index: 89
Analysis label: L2046625-02D50 6020TL
Analysis started at: 10/29/2020 2:48:09 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	117.060 %	138.197 %	0.049 ppb	10,938.888 ppb	2,215.194 ppb	549.398 ppb	349.755 ppb	6,164.313 ppb	121.104 %
Concentration per Run 1	128.223 %	133.051 %	0.052 ppb	10,928.759 ppb	2,194.039 ppb	522.842 ppb	351.728 ppb	5,864.244 ppb	128.982 %
Concentration per Run 2	107.301 %	136.871 %	0.047 ppb	11,131.477 ppb	2,278.443 ppb	572.529 ppb	373.714 ppb	6,268.271 ppb	111.260 %
Concentration per Run 3	115.656 %	144.670 %	0.048 ppb	10,756.429 ppb	2,173.101 ppb	552.823 ppb	323.823 ppb	6,360.425 ppb	123.071 %
Concentration RSD	9.0 %	4.3 %	4.6 %	1.7 %	2.5 %	4.6 %	7.1 %	4.3 %	7.5 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	29.702 ppb	3.881 ppb	1.072 ppb	67.798 ppb	753.963 ppb	1.475 ppb	1.466 ppb	3.253 ppb	65.919 ppb
Concentration per Run 1	28.992 ppb	4.568 ppb	1.097 ppb	66.218 ppb	748.560 ppb	1.685 ppb	1.761 ppb	2.902 ppb	67.330 ppb
Concentration per Run 2	29.861 ppb	3.832 ppb	1.003 ppb	67.781 ppb	736.120 ppb	1.375 ppb	1.205 ppb	3.347 ppb	64.287 ppb
Concentration per Run 3	30.253 ppb	3.243 ppb	1.114 ppb	69.394 ppb	777.210 ppb	1.365 ppb	1.433 ppb	3.510 ppb	66.141 ppb
Concentration RSD	2.2 %	17.1 %	5.6 %	2.3 %	2.8 %	12.3 %	19.1 %	9.7 %	2.3 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	127.798 %	0.248 ppb	0.063 ppb	24.176 ppb	0.103 ppb	120.825 %	0.003 ppb	0.057 ppb	130.256 %
Concentration per Run 1	122.647 %	0.256 ppb	-0.012 ppb	23.722 ppb	0.108 ppb	120.721 %	0.003 ppb	0.051 ppb	128.129 %
Concentration per Run 2	133.875 %	0.162 ppb	0.135 ppb	24.041 ppb	0.086 ppb	120.732 %	0.002 ppb	0.059 ppb	131.771 %
Concentration per Run 3	126.873 %	0.327 ppb	0.066 ppb	24.763 ppb	0.115 ppb	121.022 %	0.004 ppb	0.061 ppb	130.869 %
Concentration RSD	4.4 %	33.3 %	116.3 %	2.2 %	14.8 %	0.1 %	29.8 %	9.7 %	1.5 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.180 ppb	0.027 ppb	93.125 ppb	125.677 %	129.391 %	-0.026 ppb	0.018 ppb	57.884 ppb	123.123 %
Concentration per Run 1	0.145 ppb	0.009 ppb	91.352 ppb	125.182 %	128.879 %	-0.040 ppb	0.018 ppb	57.528 ppb	122.843 %
Concentration per Run 2	0.172 ppb	0.041 ppb	93.665 ppb	125.521 %	129.746 %	-0.032 ppb	0.012 ppb	57.913 ppb	123.489 %
Concentration per Run 3	0.225 ppb	0.031 ppb	94.357 ppb	126.329 %	129.547 %	-0.006 ppb	0.023 ppb	58.212 ppb	123.036 %
Concentration RSD	22.6 %	60.8 %	1.7 %	0.5 %	0.4 %	67.4 %	32.0 %	0.6 %	0.3 %

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Analysis label: CCV User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	124.818 %	144.935 %	60.788 ppb	5,903.413 ppb	5,923.006 ppb	61.551 ppb	6,122.737 ppb	5,963.972 ppb	139.703 %
Concentration per Run 1	126.072 %	140.372 %	60.097 ppb	5,866.807 ppb	5,927.544 ppb	60.099 ppb	5,986.038 ppb	6,029.514 ppb	139.295 %
Concentration per Run 2	125.069 %	144.510 %	61.320 ppb	5,957.378 ppb	5,901.188 ppb	61.300 ppb	6,157.204 ppb	5,851.238 ppb	140.448 %
Concentration per Run 3	123.314 %	149.922 %	60.947 ppb	5,886.055 ppb	5,940.287 ppb	63.253 ppb	6,224.969 ppb	6,011.165 ppb	139.366 %
Recovery Percentage 1			101.313 %	98.390 %	98.717 %	102.584 %	102.046 %	99.400 %	
Concentration RSD	1.1 %	3.3 %	1.0 %	0.8 %	0.3 %	2.6 %	2.0 %	1.6 %	0.5 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	56.302 ppb	55.660 ppb	55.399 ppb	57.645 ppb	5,829.673 ppb	56.842 ppb	57.084 ppb	58.115 ppb	59.021 ppb
Concentration per Run 1	57.540 ppb	58.000 ppb	56.979 ppb	58.730 ppb	6,063.610 ppb	59.642 ppb	59.391 ppb	61.675 ppb	62.564 ppb
Concentration per Run 2	54.364 ppb	53.084 ppb	52.839 ppb	56.768 ppb	5,530.545 ppb	54.324 ppb	55.272 ppb	55.053 ppb	56.484 ppb
Concentration per Run 3	57.003 ppb	55.895 ppb	56.379 ppb	57.436 ppb	5,894.865 ppb	56.562 ppb	56.589 ppb	57.615 ppb	58.015 ppb
Recovery Percentage 1	93.837 %	92.766 %	92.332 %	96.075 %	97.161 %	94.737 %	95.140 %	96.858 %	98.369 %
Concentration RSD	3.0 %	4.4 %	4.0 %	1.7 %	4.7 %	4.7 %	3.7 %	5.7 %	5.4 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	129.299 %	58.625 ppb	60.800 ppb	60.470 ppb	55.808 ppb	125.469 %	57.488 ppb	58.330 ppb	135.158 %
Concentration per Run 1	122.664 %	60.753 ppb	63.238 ppb	60.959 ppb	56.199 ppb	122.928 %	58.168 ppb	59.679 ppb	130.080 %
Concentration per Run 2	135.133 %	56.188 ppb	59.129 ppb	58.565 ppb	52.430 ppb	127.540 %	55.333 ppb	56.643 ppb	140.494 %
Concentration per Run 3	130.099 %	58.936 ppb	60.031 ppb	61.886 ppb	58.795 ppb	125.937 %	58.963 ppb	58.670 ppb	134.899 %
Recovery Percentage 1		97.709 %	101.333 %	100.783 %	93.014 %		95.813 %	97.217 %	
Concentration RSD	4.9 %	3.9 %	3.6 %	2.8 %	5.7 %	1.9 %	3.3 %	2.7 %	3.9 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	57.016 ppb	57.467 ppb	57.709 ppb	132.204 %	134.642 %	55.140 ppb	57.387 ppb	57.767 ppb	127.818 %
Concentration per Run 1	58.390 ppb	58.237 ppb	58.471 ppb	129.384 %	131.463 %	57.232 ppb	57.913 ppb	58.544 ppb	125.275 %
Concentration per Run 2	55.001 ppb	55.570 ppb	56.238 ppb	135.707 %	138.245 %	52.603 ppb	55.746 ppb	55.724 ppb	132.255 %
Concentration per Run 3	57.657 ppb	58.594 ppb	58.417 ppb	131.520 %	134.219 %	55.585 ppb	58.501 ppb	59.034 ppb	125.924 %
Recovery Percentage 1	95.027 %	95.778 %	96.181 %			91.900 %	95.645 %	96.279 %	
Concentration RSD	3.1 %	2.9 %	2.2 %	2.4 %	2.5 %	4.3 %	2.5 %	3.1 %	3.0 %

Analysis index: 91 Analysis started at: 10/29/2020 2:58:23 PM
Analysis label: CCB User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	119.545 %	135.757 %	0.002 ppb	-2.294 ppb	0.395 ppb	-0.163 ppb	-0.470 ppb	4.894 ppb	121.548 %
Concentration per Run 1	120.417 %	142.760 %	0.001 ppb	-2.645 ppb	0.755 ppb	-0.142 ppb	-0.055 ppb	0.242 ppb	119.986 %
Concentration per Run 2	119.147 %	134.165 %	0.002 ppb	-2.807 ppb	0.824 ppb	0.014 ppb	0.688 ppb	9.886 ppb	121.774 %
Concentration per Run 3	119.069 %	130.345 %	0.003 ppb	-1.429 ppb	-0.394 ppb	-0.360 ppb	-2.043 ppb	4.553 ppb	122.884 %
Recovery Percentage 1			0.360 %	-2.294 %	0.565 %	-1.628 %	-0.470 %	4.894 %	
Concentration RSD	0.6 %	4.7 %	60.0 %	32.9 %	173.2 %	115.3 %	300.5 %	98.7 %	1.2 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.224 ppb	-0.011 ppb	0.005 ppb	0.025 ppb	25.917 ppb	0.004 ppb	0.029 ppb	0.000 ppb	0.043 ppb
Concentration per Run 1	0.130 ppb	0.003 ppb	0.013 ppb	0.033 ppb	20.740 ppb	0.004 ppb	0.016 ppb	-0.027 ppb	0.022 ppb
Concentration per Run 2	0.320 ppb	-0.031 ppb	-0.007 ppb	0.021 ppb	31.055 ppb	0.004 ppb	0.019 ppb	-0.003 ppb	0.040 ppb
Concentration per Run 3	0.222 ppb	-0.004 ppb	0.011 ppb	0.021 ppb	25.954 ppb	0.004 ppb	0.051 ppb	0.029 ppb	0.067 ppb
Recovery Percentage 1	44.868 %	-0.212 %	0.547 %	2.493 %	51.833 %	0.820 %	1.426 %	-0.013 %	0.432 %
Concentration RSD	42.4 %	172.0 %	200.4 %	27.7 %	19.9 %	3.0 %	68.6 %	21,964.3 %	51.8 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	118.133 %	0.079 ppb	0.072 ppb	0.010 ppb	0.701 ppb	112.053 %	0.004 ppb	0.002 ppb	120.127 %
Concentration per Run 1	121.682 %	0.099 ppb	-0.010 ppb	0.015 ppb	0.579 ppb	114.276 %	0.004 ppb	0.002 ppb	122.616 %
Concentration per Run 2	116.140 %	0.057 ppb	0.025 ppb	0.006 ppb	0.813 ppb	109.974 %	0.002 ppb	0.002 ppb	119.379 %
Concentration per Run 3	116.578 %	0.081 ppb	0.200 ppb	0.008 ppb	0.713 ppb	111.909 %	0.005 ppb	0.000 ppb	118.387 %
Recovery Percentage 1		15.797 %	1.432 %	1.951 %	35.075 %		0.979 %	0.819 %	
Concentration RSD	2.6 %	26.1 %	157.6 %	47.0 %	16.7 %	1.9 %	36.3 %	86.6 %	1.8 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.875 ppb	0.049 ppb	0.037 ppb	115.203 %	119.007 %	1.031 ppb	0.352 ppb	0.047 ppb	115.000 %
Concentration per Run 1	0.778 ppb	0.050 ppb	0.010 ppb	117.761 %	121.822 %	0.871 ppb	0.341 ppb	0.046 ppb	117.958 %
Concentration per Run 2	0.900 ppb	0.067 ppb	0.071 ppb	113.958 %	117.840 %	1.070 ppb	0.361 ppb	0.047 ppb	114.628 %
Concentration per Run 3	0.947 ppb	0.029 ppb	0.028 ppb	113.892 %	117.357 %	1.152 ppb	0.355 ppb	0.048 ppb	112.415 %
Recovery Percentage 1	29.169 %	1.214 %	7.311 %			51.559 %	70.427 %	4.715 %	
Concentration RSD	10.0 %	38.8 %	86.3 %	1.9 %	2.1 %	14.0 %	3.0 %	2.5 %	2.4 %

Analysis index: 92
Analysis label: WG1427641-1 6020TL
Analysis started at: 10/29/2020 3:03:32 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	111.110 %	133.900 %	0.001 ppb	2.840 ppb	2.307 ppb	0.882 ppb	0.479 ppb	35.486 ppb	108.744 %
Concentration per Run 1	116.676 %	138.781 %	0.007 ppb	1.264 ppb	2.226 ppb	0.809 ppb	-2.084 ppb	31.918 ppb	111.825 %
Concentration per Run 2	108.793 %	134.484 %	-0.006 ppb	2.412 ppb	2.908 ppb	1.079 ppb	-0.680 ppb	43.382 ppb	106.507 %
Concentration per Run 3	107.860 %	128.436 %	0.003 ppb	4.843 ppb	1.786 ppb	0.759 ppb	4.202 ppb	31.159 ppb	107.902 %
Concentration RSD	4.4 %	3.9 %	458.3 %	64.3 %	24.5 %	19.5 %	689.0 %	19.3 %	2.5 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.166 ppb	-0.021 ppb	0.012 ppb	0.155 ppb	5.879 ppb	0.011 ppb	0.062 ppb	0.001 ppb	0.229 ppb
Concentration per Run 1	0.185 ppb	-0.010 ppb	0.004 ppb	0.160 ppb	4.324 ppb	0.012 ppb	0.074 ppb	-0.008 ppb	0.163 ppb
Concentration per Run 2	0.153 ppb	-0.021 ppb	0.013 ppb	0.151 ppb	4.529 ppb	0.008 ppb	0.047 ppb	-0.016 ppb	0.259 ppb
Concentration per Run 3	0.158 ppb	-0.032 ppb	0.019 ppb	0.154 ppb	8.785 ppb	0.012 ppb	0.064 ppb	0.026 ppb	0.266 ppb
Concentration RSD	10.4 %	51.5 %	64.2 %	2.9 %	42.8 %	21.6 %	22.2 %	2,820.7 %	25.1 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	123.232 %	0.024 ppb	-0.002 ppb	0.019 ppb	0.199 ppb	116.466 %	0.000 ppb	0.002 ppb	126.469 %
Concentration per Run 1	126.013 %	0.027 ppb	-0.014 ppb	0.017 ppb	0.111 ppb	116.513 %	0.001 ppb	0.000 ppb	125.721 %
Concentration per Run 2	122.440 %	0.029 ppb	-0.011 ppb	0.020 ppb	0.215 ppb	116.495 %	0.000 ppb	0.000 ppb	127.406 %
Concentration per Run 3	121.244 %	0.015 ppb	0.018 ppb	0.021 ppb	0.272 ppb	116.390 %	-0.001 ppb	0.007 ppb	126.279 %
Concentration RSD	2.0 %	33.1 %	793.6 %	10.0 %	40.9 %	0.1 %	243.7 %	173.2 %	0.7 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.290 ppb	0.017 ppb	0.059 ppb	120.358 %	123.047 %	0.250 ppb	0.104 ppb	0.021 ppb	118.911 %
Concentration per Run 1	0.294 ppb	0.014 ppb	0.076 ppb	119.991 %	123.740 %	0.189 ppb	0.096 ppb	0.016 ppb	120.354 %
Concentration per Run 2	0.221 ppb	0.012 ppb	0.051 ppb	118.912 %	122.377 %	0.255 ppb	0.102 ppb	0.016 ppb	118.717 %
Concentration per Run 3	0.357 ppb	0.026 ppb	0.050 ppb	122.171 %	123.025 %	0.306 ppb	0.114 ppb	0.029 ppb	117.661 %
Concentration RSD	23.4 %	42.3 %	24.6 %	1.4 %	0.6 %	23.5 %	9.1 %	34.7 %	1.1 %

Alpha ICPMSQ Full

10/29/2020 9:29:56 PM

Analysis index: 93
Analysis label: WG1427641-2D5 6020TL
Analysis started at: 10/29/2020 3:08:38 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	124.916 %	147.322 %	11.514 ppb	2,071.069 ppb	2,091.837 ppb	420.307 ppb	2,137.072 ppb	1,983.367 ppb	132.089 %
Concentration per Run 1	128.408 %	145.784 %	11.377 ppb	2,084.736 ppb	2,082.590 ppb	414.234 ppb	2,113.218 ppb	2,013.320 ppb	132.487 %
Concentration per Run 2	124.253 %	154.219 %	11.779 ppb	1,982.039 ppb	1,999.788 ppb	411.574 ppb	2,096.015 ppb	1,911.631 ppb	132.473 %
Concentration per Run 3	122.087 %	141.964 %	11.386 ppb	2,146.433 ppb	2,193.134 ppb	435.114 ppb	2,201.983 ppb	2,025.149 ppb	131.308 %
Concentration RSD	2.6 %	4.3 %	2.0 %	4.0 %	4.6 %	3.1 %	2.7 %	3.1 %	0.5 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	168.056 ppb	94.881 ppb	37.593 ppb	96.054 ppb	203.874 ppb	95.839 ppb	93.519 ppb	48.565 ppb	108.154 ppb
Concentration per Run 1	165.041 ppb	94.027 ppb	38.021 ppb	95.437 ppb	203.533 ppb	95.391 ppb	94.597 ppb	48.418 ppb	109.457 ppb
Concentration per Run 2	167.106 ppb	94.457 ppb	37.762 ppb	95.263 ppb	201.978 ppb	95.033 ppb	92.836 ppb	48.018 ppb	107.816 ppb
Concentration per Run 3	172.020 ppb	96.160 ppb	36.997 ppb	97.462 ppb	206.110 ppb	97.094 ppb	93.123 ppb	49.258 ppb	107.190 ppb
Concentration RSD	2.1 %	1.2 %	1.4 %	1.3 %	1.0 %	1.1 %	1.0 %	1.3 %	1.1 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	128.556 %	25.706 ppb	25.801 ppb	209.485 ppb	192.883 ppb	123.443 %	10.183 ppb	10.764 ppb	133.706 %
Concentration per Run 1	129.531 %	26.021 ppb	25.537 ppb	208.001 ppb	191.032 ppb	124.924 %	10.201 ppb	10.608 ppb	134.439 %
Concentration per Run 2	128.073 %	25.348 ppb	26.155 ppb	210.120 ppb	194.852 ppb	123.366 %	10.083 ppb	10.873 ppb	133.899 %
Concentration per Run 3	128.065 %	25.750 ppb	25.711 ppb	210.334 ppb	192.764 ppb	122.038 %	10.267 ppb	10.811 ppb	132.779 %
Concentration RSD	0.7 %	1.3 %	1.2 %	0.6 %	1.0 %	1.2 %	0.9 %	1.3 %	0.6 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	184.545 ppb	90.011 ppb	402.419 ppb	128.542 %	131.987 %	0.181 ppb	24.555 ppb	110.271 ppb	126.072 %
Concentration per Run 1	183.133 ppb	89.457 ppb	399.018 ppb	129.426 %	132.928 %	0.124 ppb	24.443 ppb	109.912 ppb	127.054 %
Concentration per Run 2	184.708 ppb	89.440 ppb	402.428 ppb	127.923 %	132.039 %	0.188 ppb	24.617 ppb	110.419 ppb	126.054 %
Concentration per Run 3	185.793 ppb	91.135 ppb	405.811 ppb	128.276 %	130.993 %	0.230 ppb	24.606 ppb	110.481 ppb	125.109 %
Concentration RSD	0.7 %	1.1 %	0.8 %	0.6 %	0.7 %	29.5 %	0.4 %	0.3 %	0.8 %

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Analysis index: 94
Analysis label: WG1427641-3D10 6020TL
Analysis started at: 10/29/2020 3:13:44 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	117.390 %	142.866 %	6.681 ppb	27,905.029 ppb	2,008.448 ppb	239.709 ppb	2,086.818 ppb	4,693.327 ppb	118.429 %
Concentration per Run 1	128.414 %	140.850 %	6.234 ppb	27,841.100 ppb	2,019.737 ppb	238.953 ppb	2,083.680 ppb	4,513.996 ppb	127.174 %
Concentration per Run 2	114.736 %	140.531 %	7.018 ppb	28,522.207 ppb	2,044.033 ppb	244.344 ppb	2,108.446 ppb	4,755.414 ppb	114.857 %
Concentration per Run 3	109.021 %	147.216 %	6.791 ppb	27,351.780 ppb	1,961.574 ppb	235.830 ppb	2,068.327 ppb	4,810.572 ppb	113.255 %
Concentration RSD	8.5 %	2.6 %	6.0 %	2.1 %	2.1 %	1.8 %	1.0 %	3.4 %	6.4 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	95.851 ppb	50.351 ppb	19.704 ppb	70.689 ppb	161.618 ppb	50.368 ppb	49.380 ppb	25.170 ppb	55.489 ppb
Concentration per Run 1	96.129 ppb	50.492 ppb	19.660 ppb	70.672 ppb	145.823 ppb	50.775 ppb	50.399 ppb	25.269 ppb	54.774 ppb
Concentration per Run 2	95.497 ppb	49.951 ppb	19.377 ppb	70.593 ppb	171.378 ppb	49.906 ppb	49.160 ppb	25.284 ppb	55.467 ppb
Concentration per Run 3	95.927 ppb	50.608 ppb	20.075 ppb	70.801 ppb	167.654 ppb	50.424 ppb	48.581 ppb	24.957 ppb	56.226 ppb
Concentration RSD	0.3 %	0.7 %	1.8 %	0.1 %	8.5 %	0.9 %	1.9 %	0.7 %	1.3 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	129.380 %	13.643 ppb	13.819 ppb	126.711 ppb	106.988 ppb	120.751 %	5.343 ppb	5.674 ppb	132.863 %
Concentration per Run 1	131.014 %	13.649 ppb	13.308 ppb	126.064 ppb	105.973 ppb	121.713 %	5.252 ppb	5.804 ppb	132.707 %
Concentration per Run 2	130.222 %	13.843 ppb	13.962 ppb	126.435 ppb	105.876 ppb	119.835 %	5.382 ppb	5.776 ppb	132.828 %
Concentration per Run 3	126.904 %	13.438 ppb	14.187 ppb	127.633 ppb	109.114 ppb	120.706 %	5.396 ppb	5.442 ppb	133.055 %
Concentration RSD	1.7 %	1.5 %	3.3 %	0.6 %	1.7 %	0.8 %	1.5 %	3.6 %	0.1 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	101.669 ppb	59.412 ppb	217.896 ppb	128.363 %	132.250 %	0.051 ppb	13.149 ppb	58.779 ppb	122.052 %
Concentration per Run 1	102.375 ppb	59.515 ppb	215.768 ppb	128.209 %	131.386 %	0.021 ppb	13.138 ppb	58.525 ppb	121.381 %
Concentration per Run 2	101.357 ppb	59.943 ppb	218.883 ppb	128.402 %	132.952 %	0.050 ppb	13.191 ppb	58.889 ppb	123.044 %
Concentration per Run 3	101.274 ppb	58.778 ppb	219.038 ppb	128.476 %	132.413 %	0.082 ppb	13.119 ppb	58.923 ppb	121.731 %
Concentration RSD	0.6 %	1.0 %	0.8 %	0.1 %	0.6 %	59.6 %	0.3 %	0.4 %	0.7 %

Analysis index: 95
Analysis label: L2046058-07D10 MCP-6020TL-10
Analysis started at: 10/29/2020 3:18:50 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	140.911 %	164.989 %	-0.001 ppb	136,592.562 ppb	14,258.946 ppb	3.135 ppb	4,636.069 ppb	7,605.544 ppb	147.171 %
Concentration per Run 1	145.421 %	160.108 %	-0.003 ppb	135,489.552 ppb	14,148.272 ppb	2.735 ppb	4,561.686 ppb	7,527.537 ppb	148.549 %
Concentration per Run 2	141.044 %	167.747 %	0.005 ppb	134,814.165 ppb	14,034.404 ppb	3.286 ppb	4,616.591 ppb	7,565.200 ppb	146.662 %
Concentration per Run 3	136.270 %	167.111 %	-0.006 ppb	139,473.968 ppb	14,594.164 ppb	3.386 ppb	4,729.931 ppb	7,723.896 ppb	146.302 %
Concentration RSD	3.2 %	2.6 %	513.2 %	1.8 %	2.1 %	11.2 %	1.9 %	1.4 %	0.8 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	11.395 ppb	0.021 ppb	0.104 ppb	28.874 ppb	59.136 ppb	0.041 ppb	0.332 ppb	0.269 ppb	1.035 ppb
Concentration per Run 1	11.136 ppb	0.015 ppb	0.075 ppb	27.106 ppb	57.759 ppb	0.014 ppb	0.334 ppb	0.288 ppb	1.047 ppb
Concentration per Run 2	10.942 ppb	0.013 ppb	0.126 ppb	29.020 ppb	60.547 ppb	0.056 ppb	0.210 ppb	0.232 ppb	1.083 ppb
Concentration per Run 3	12.106 ppb	0.035 ppb	0.111 ppb	30.496 ppb	59.102 ppb	0.052 ppb	0.451 ppb	0.286 ppb	0.976 ppb
Concentration RSD	5.5 %	58.3 %	24.8 %	5.9 %	2.4 %	56.8 %	36.4 %	11.9 %	5.3 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	136.051 %	0.186 ppb	0.147 ppb	105.413 ppb	2.478 ppb	125.186 %	0.003 ppb	0.007 ppb	138.030 %
Concentration per Run 1	136.147 %	0.138 ppb	0.130 ppb	102.437 ppb	1.996 ppb	125.652 %	0.003 ppb	0.002 ppb	137.369 %
Concentration per Run 2	135.932 %	0.200 ppb	0.257 ppb	106.092 ppb	2.404 ppb	125.328 %	0.002 ppb	0.006 ppb	138.849 %
Concentration per Run 3	136.074 %	0.220 ppb	0.054 ppb	107.710 ppb	3.033 ppb	124.577 %	0.004 ppb	0.013 ppb	137.872 %
Concentration RSD	0.1 %	23.0 %	69.7 %	2.6 %	21.1 %	0.4 %	42.7 %	75.7 %	0.5 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	4.299 ppb	1.351 ppb	7.701 ppb	134.163 %	136.867 %	0.018 ppb	0.173 ppb	0.078 ppb	117.386 %
Concentration per Run 1	3.703 ppb	1.287 ppb	7.581 ppb	134.475 %	136.257 %	-0.017 ppb	0.139 ppb	0.074 ppb	117.715 %
Concentration per Run 2	4.303 ppb	1.350 ppb	7.643 ppb	133.995 %	137.811 %	0.018 ppb	0.185 ppb	0.079 ppb	117.972 %
Concentration per Run 3	4.892 ppb	1.415 ppb	7.878 ppb	134.020 %	136.534 %	0.054 ppb	0.196 ppb	0.082 ppb	116.470 %
Concentration RSD	13.8 %	4.7 %	2.0 %	0.2 %	0.6 %	191.8 %	17.2 %	5.2 %	0.7 %

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Analysis index: 96
Analysis label: L2046058-08D10 MCP-6020TL-10
Analysis started at: 10/29/2020 3:23:56 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	141.381 %	174.750 %	0.000 ppb	138,359.998 ppb	14,355.288 ppb	2.913 ppb	4,624.116 ppb	7,507.010 ppb	144.479 %
Concentration per Run 1	148.582 %	174.750 %	0.001 ppb	134,189.337 ppb	13,947.010 ppb	2.589 ppb	4,445.484 ppb	7,143.050 ppb	149.992 %
Concentration per Run 2	125.499 %	172.840 %	0.000 ppb	144,835.076 ppb	14,951.778 ppb	3.547 ppb	4,872.795 ppb	8,071.769 ppb	131.326 %
Concentration per Run 3	150.062 %	176.660 %	-0.001 ppb	136,055.580 ppb	14,167.076 ppb	2.602 ppb	4,554.070 ppb	7,306.210 ppb	152.118 %
Concentration RSD	9.7 %	1.1 %	300.0 %	4.1 %	3.7 %	18.9 %	4.8 %	6.6 %	7.9 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	10.524 ppb	0.055 ppb	0.096 ppb	27.942 ppb	55.989 ppb	0.036 ppb	0.222 ppb	0.149 ppb	1.152 ppb
Concentration per Run 1	9.771 ppb	0.067 ppb	0.062 ppb	26.674 ppb	57.734 ppb	0.032 ppb	0.251 ppb	0.140 ppb	1.007 ppb
Concentration per Run 2	10.494 ppb	0.085 ppb	0.135 ppb	29.600 ppb	56.502 ppb	0.041 ppb	0.214 ppb	0.152 ppb	1.265 ppb
Concentration per Run 3	11.308 ppb	0.015 ppb	0.092 ppb	27.553 ppb	53.730 ppb	0.035 ppb	0.201 ppb	0.156 ppb	1.185 ppb
Concentration RSD	7.3 %	65.7 %	37.8 %	5.4 %	3.7 %	11.9 %	11.7 %	5.6 %	11.5 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	146.976 %	0.178 ppb	0.076 ppb	103.683 ppb	0.857 ppb	130.539 %	0.003 ppb	0.006 ppb	141.601 %
Concentration per Run 1	150.025 %	0.121 ppb	-0.008 ppb	97.710 ppb	0.708 ppb	135.104 %	0.002 ppb	0.006 ppb	144.900 %
Concentration per Run 2	140.702 %	0.238 ppb	0.197 ppb	112.130 ppb	0.950 ppb	124.450 %	0.004 ppb	0.002 ppb	136.450 %
Concentration per Run 3	150.200 %	0.177 ppb	0.038 ppb	101.208 ppb	0.913 ppb	132.062 %	0.003 ppb	0.008 ppb	143.454 %
Concentration RSD	3.7 %	32.8 %	141.8 %	7.3 %	15.2 %	4.2 %	22.2 %	55.9 %	3.2 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.843 ppb	0.631 ppb	7.905 ppb	137.599 %	141.318 %	0.003 ppb	0.060 ppb	0.041 ppb	118.922 %
Concentration per Run 1	1.468 ppb	0.529 ppb	7.407 ppb	141.543 %	144.500 %	-0.038 ppb	0.037 ppb	0.038 ppb	122.834 %
Concentration per Run 2	2.005 ppb	0.679 ppb	8.898 ppb	131.678 %	136.079 %	0.017 ppb	0.069 ppb	0.043 ppb	114.918 %
Concentration per Run 3	2.056 ppb	0.685 ppb	7.410 ppb	139.577 %	143.376 %	0.029 ppb	0.074 ppb	0.041 ppb	119.012 %
Concentration RSD	17.7 %	14.0 %	10.9 %	3.8 %	3.2 %	1,185.3 %	33.8 %	6.2 %	3.3 %

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Analysis index: 97
Analysis label: L2046058-09D10 MCP-6020TL-10
Analysis started at: 10/29/2020 3:29:03 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	153.701 %	180.374 %	-0.001 ppb	140,064.239 ppb	14,612.604 ppb	3.047 ppb	4,720.700 ppb	7,351.165 ppb	158.995 %
Concentration per Run 1	158.811 %	183.186 %	-0.004 ppb	139,222.404 ppb	14,470.430 ppb	2.808 ppb	4,639.770 ppb	7,354.966 ppb	162.100 %
Concentration per Run 2	152.695 %	184.936 %	0.000 ppb	135,711.197 ppb	14,123.496 ppb	2.980 ppb	4,610.253 ppb	7,192.453 ppb	159.041 %
Concentration per Run 3	149.598 %	172.999 %	0.001 ppb	145,259.116 ppb	15,243.887 ppb	3.354 ppb	4,912.077 ppb	7,506.076 ppb	155.843 %
Concentration RSD	3.1 %	3.6 %	208.2 %	3.4 %	3.9 %	9.2 %	3.5 %	2.1 %	2.0 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	10.116 ppb	0.066 ppb	0.095 ppb	26.640 ppb	52.770 ppb	0.031 ppb	0.185 ppb	0.126 ppb	0.847 ppb
Concentration per Run 1	10.320 ppb	0.044 ppb	0.092 ppb	26.892 ppb	54.410 ppb	0.029 ppb	0.237 ppb	0.165 ppb	0.848 ppb
Concentration per Run 2	9.609 ppb	0.074 ppb	0.101 ppb	25.638 ppb	48.432 ppb	0.038 ppb	0.162 ppb	0.122 ppb	0.775 ppb
Concentration per Run 3	10.421 ppb	0.079 ppb	0.091 ppb	27.392 ppb	55.467 ppb	0.026 ppb	0.155 ppb	0.092 ppb	0.920 ppb
Concentration RSD	4.4 %	28.4 %	5.8 %	3.4 %	7.2 %	20.5 %	24.7 %	29.0 %	8.6 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	148.620 %	0.156 ppb	0.055 ppb	104.257 ppb	0.546 ppb	133.024 %	-0.001 ppb	0.010 ppb	145.220 %
Concentration per Run 1	148.493 %	0.198 ppb	0.040 ppb	105.569 ppb	0.578 ppb	132.189 %	-0.001 ppb	0.012 ppb	144.738 %
Concentration per Run 2	149.295 %	0.109 ppb	0.155 ppb	103.979 ppb	0.506 ppb	134.481 %	-0.001 ppb	0.008 ppb	145.710 %
Concentration per Run 3	148.071 %	0.161 ppb	-0.030 ppb	103.224 ppb	0.554 ppb	132.401 %	0.000 ppb	0.008 ppb	145.211 %
Concentration RSD	0.4 %	28.5 %	169.4 %	1.1 %	6.7 %	1.0 %	100.7 %	25.2 %	0.3 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.126 ppb	0.369 ppb	7.021 ppb	140.630 %	142.587 %	-0.006 ppb	0.036 ppb	0.036 ppb	121.850 %
Concentration per Run 1	0.924 ppb	0.310 ppb	6.786 ppb	140.695 %	143.070 %	-0.029 ppb	0.032 ppb	0.037 ppb	122.143 %
Concentration per Run 2	1.170 ppb	0.397 ppb	7.311 ppb	141.709 %	143.010 %	-0.015 ppb	0.035 ppb	0.032 ppb	122.293 %
Concentration per Run 3	1.285 ppb	0.399 ppb	6.967 ppb	139.487 %	141.681 %	0.026 ppb	0.039 ppb	0.038 ppb	121.114 %
Concentration RSD	16.4 %	13.7 %	3.8 %	0.8 %	0.6 %	477.3 %	10.1 %	8.9 %	0.5 %

Analysis index: 98
Analysis label: L2046058-10D10 MCP-6020TL-10
Analysis started at: 10/29/2020 3:34:10 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	158.574 %	178.941 %	-0.002 ppb	141,051.679 ppb	14,683.708 ppb	3.393 ppb	4,776.211 ppb	7,388.062 ppb	165.530 %
Concentration per Run 1	163.583 %	174.114 %	-0.004 ppb	143,766.997 ppb	14,850.066 ppb	3.528 ppb	4,789.870 ppb	7,460.118 ppb	169.043 %
Concentration per Run 2	157.092 %	174.114 %	-0.006 ppb	144,838.268 ppb	15,105.834 ppb	3.739 ppb	4,873.957 ppb	7,430.997 ppb	162.714 %
Concentration per Run 3	155.047 %	188.597 %	0.004 ppb	134,549.773 ppb	14,095.224 ppb	2.913 ppb	4,664.805 ppb	7,273.069 ppb	164.834 %
Concentration RSD	2.8 %	4.7 %	283.5 %	4.0 %	3.6 %	12.6 %	2.2 %	1.4 %	1.9 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	10.374 ppb	0.071 ppb	0.116 ppb	26.741 ppb	54.995 ppb	0.035 ppb	0.318 ppb	0.108 ppb	0.893 ppb
Concentration per Run 1	10.874 ppb	0.097 ppb	0.141 ppb	26.979 ppb	56.347 ppb	0.045 ppb	0.275 ppb	0.090 ppb	0.822 ppb
Concentration per Run 2	10.525 ppb	-0.005 ppb	0.103 ppb	27.484 ppb	60.347 ppb	0.022 ppb	0.410 ppb	0.156 ppb	1.141 ppb
Concentration per Run 3	9.724 ppb	0.121 ppb	0.102 ppb	25.761 ppb	48.292 ppb	0.038 ppb	0.268 ppb	0.079 ppb	0.715 ppb
Concentration RSD	5.7 %	94.6 %	19.1 %	3.3 %	11.2 %	32.8 %	25.2 %	38.3 %	24.8 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	150.589 %	0.151 ppb	-0.024 ppb	103.360 ppb	0.412 ppb	133.578 %	0.001 ppb	0.005 ppb	145.158 %
Concentration per Run 1	150.361 %	0.139 ppb	-0.008 ppb	102.774 ppb	0.323 ppb	134.172 %	0.001 ppb	0.008 ppb	145.635 %
Concentration per Run 2	150.535 %	0.102 ppb	-0.031 ppb	103.011 ppb	0.379 ppb	133.810 %	0.001 ppb	0.000 ppb	145.315 %
Concentration per Run 3	150.871 %	0.213 ppb	-0.031 ppb	104.296 ppb	0.533 ppb	132.753 %	0.002 ppb	0.008 ppb	144.524 %
Concentration RSD	0.2 %	37.3 %	56.7 %	0.8 %	26.4 %	0.6 %	39.3 %	86.6 %	0.4 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.752 ppb	0.275 ppb	6.805 ppb	142.060 %	144.697 %	-0.033 ppb	0.023 ppb	0.030 ppb	122.055 %
Concentration per Run 1	0.667 ppb	0.260 ppb	6.681 ppb	142.751 %	144.722 %	-0.051 ppb	0.016 ppb	0.025 ppb	121.611 %
Concentration per Run 2	0.761 ppb	0.284 ppb	7.037 ppb	141.165 %	144.287 %	-0.038 ppb	0.025 ppb	0.029 ppb	122.979 %
Concentration per Run 3	0.828 ppb	0.282 ppb	6.697 ppb	142.265 %	145.081 %	-0.008 ppb	0.030 ppb	0.034 ppb	121.576 %
Concentration RSD	10.8 %	4.9 %	3.0 %	0.6 %	0.3 %	67.8 %	30.4 %	14.6 %	0.7 %

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Analysis index: 99
Analysis label: L2046058-11D10 MCP-6020TL-10
Analysis started at: 10/29/2020 3:39:15 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	141.252 %	158.569 %	0.000 ppb	3,925.808 ppb	315.230 ppb	0.421 ppb	152.637 ppb	1,027.106 ppb	142.663 %
Concentration per Run 1	144.647 %	158.357 %	0.002 ppb	3,994.076 ppb	313.065 ppb	0.342 ppb	157.269 ppb	1,059.541 ppb	142.333 %
Concentration per Run 2	138.869 %	155.174 %	-0.005 ppb	4,025.922 ppb	336.120 ppb	0.647 ppb	161.754 ppb	1,052.795 ppb	141.562 %
Concentration per Run 3	140.240 %	162.177 %	0.002 ppb	3,757.426 ppb	296.504 ppb	0.273 ppb	138.888 ppb	968.983 ppb	144.092 %
Concentration RSD	2.1 %	2.2 %	1,039.2 %	3.7 %	6.3 %	47.2 %	7.9 %	4.9 %	0.9 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	1.613 ppb	0.077 ppb	0.079 ppb	19.578 ppb	28.325 ppb	0.007 ppb	0.096 ppb	-0.003 ppb	0.451 ppb
Concentration per Run 1	1.556 ppb	0.073 ppb	0.099 ppb	20.551 ppb	24.438 ppb	0.014 ppb	0.133 ppb	-0.003 ppb	0.525 ppb
Concentration per Run 2	1.694 ppb	0.086 ppb	0.081 ppb	19.588 ppb	30.094 ppb	0.000 ppb	0.051 ppb	-0.012 ppb	0.340 ppb
Concentration per Run 3	1.588 ppb	0.071 ppb	0.056 ppb	18.595 ppb	30.443 ppb	0.007 ppb	0.104 ppb	0.006 ppb	0.487 ppb
Concentration RSD	4.5 %	10.6 %	27.2 %	5.0 %	11.9 %	100.3 %	42.9 %	293.0 %	21.6 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	134.993 %	0.041 ppb	0.004 ppb	7.408 ppb	0.100 ppb	126.587 %	0.000 ppb	0.000 ppb	136.150 %
Concentration per Run 1	135.013 %	0.002 ppb	0.029 ppb	7.517 ppb	0.037 ppb	128.154 %	0.000 ppb	0.000 ppb	136.878 %
Concentration per Run 2	134.575 %	0.071 ppb	-0.021 ppb	7.389 ppb	0.149 ppb	126.076 %	-0.001 ppb	0.000 ppb	135.169 %
Concentration per Run 3	135.392 %	0.050 ppb	0.004 ppb	7.318 ppb	0.115 ppb	125.530 %	-0.001 ppb	0.000 ppb	136.402 %
Concentration RSD	0.3 %	87.0 %	608.3 %	1.4 %	57.6 %	1.1 %	143.9 %	N/A	0.6 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.586 ppb	0.194 ppb	3.615 ppb	129.136 %	131.815 %	-0.041 ppb	0.017 ppb	0.029 ppb	126.189 %
Concentration per Run 1	0.400 ppb	0.182 ppb	3.669 ppb	129.294 %	131.994 %	-0.062 ppb	0.011 ppb	0.030 ppb	126.182 %
Concentration per Run 2	0.628 ppb	0.191 ppb	3.591 ppb	129.432 %	132.047 %	-0.038 ppb	0.020 ppb	0.023 ppb	126.990 %
Concentration per Run 3	0.730 ppb	0.209 ppb	3.585 ppb	128.683 %	131.406 %	-0.023 ppb	0.020 ppb	0.033 ppb	125.395 %
Concentration RSD	28.8 %	7.1 %	1.3 %	0.3 %	0.3 %	47.8 %	33.1 %	17.4 %	0.6 %

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Analysis index: 100
Analysis label: L2046058-12D10 MCP-6020TL-10

Analysis started at: 10/29/2020 3:44:20 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	132.871 %	148.595 %	0.000 ppb	3,968.519 ppb	331.842 ppb	0.837 ppb	151.122 ppb	1,186.218 ppb	133.913 %
Concentration per Run 1	134.749 %	145.147 %	-0.001 ppb	4,043.641 ppb	337.504 ppb	0.826 ppb	154.100 ppb	1,192.646 ppb	133.933 %
Concentration per Run 2	132.592 %	150.399 %	0.000 ppb	3,868.234 ppb	319.775 ppb	0.655 ppb	156.645 ppb	1,148.519 ppb	134.166 %
Concentration per Run 3	131.273 %	150.240 %	0.002 ppb	3,993.683 ppb	338.249 ppb	1.030 ppb	142.620 ppb	1,217.489 ppb	133.640 %
Concentration RSD	1.3 %	2.0 %	95,470,250.7 %	2.3 %	3.2 %	22.4 %	4.9 %	2.9 %	0.2 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	1.673 ppb	0.104 ppb	0.082 ppb	12.301 ppb	27.583 ppb	0.014 ppb	0.037 ppb	-0.002 ppb	0.190 ppb
Concentration per Run 1	1.481 ppb	0.068 ppb	0.077 ppb	11.853 ppb	29.931 ppb	0.018 ppb	0.067 ppb	-0.002 ppb	0.216 ppb
Concentration per Run 2	1.712 ppb	0.106 ppb	0.078 ppb	12.091 ppb	26.798 ppb	0.015 ppb	-0.002 ppb	-0.029 ppb	0.216 ppb
Concentration per Run 3	1.825 ppb	0.138 ppb	0.091 ppb	12.958 ppb	26.020 ppb	0.008 ppb	0.045 ppb	0.024 ppb	0.139 ppb
Concentration RSD	10.5 %	33.8 %	9.3 %	4.7 %	7.5 %	39.2 %	95.8 %	1,257.7 %	23.3 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	127.793 %	0.060 ppb	0.014 ppb	7.768 ppb	0.143 ppb	119.612 %	-0.001 ppb	0.001 ppb	128.600 %
Concentration per Run 1	133.656 %	0.058 ppb	-0.072 ppb	7.334 ppb	0.151 ppb	125.037 %	-0.001 ppb	0.000 ppb	132.411 %
Concentration per Run 2	128.319 %	0.062 ppb	0.038 ppb	7.889 ppb	0.137 ppb	116.777 %	-0.001 ppb	0.002 ppb	127.529 %
Concentration per Run 3	121.405 %	0.061 ppb	0.074 ppb	8.082 ppb	0.141 ppb	117.021 %	-0.001 ppb	0.000 ppb	125.860 %
Concentration RSD	4.8 %	3.7 %	558.4 %	5.0 %	5.0 %	3.9 %	5.4 %	173.2 %	2.6 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.482 ppb	0.140 ppb	3.531 ppb	123.727 %	127.985 %	-0.046 ppb	0.014 ppb	0.021 ppb	122.607 %
Concentration per Run 1	0.302 ppb	0.124 ppb	3.449 ppb	128.398 %	133.227 %	-0.067 ppb	0.008 ppb	0.022 ppb	127.392 %
Concentration per Run 2	0.588 ppb	0.163 ppb	3.637 ppb	122.626 %	126.425 %	-0.038 ppb	0.018 ppb	0.019 ppb	121.675 %
Concentration per Run 3	0.556 ppb	0.133 ppb	3.508 ppb	120.157 %	124.304 %	-0.032 ppb	0.016 ppb	0.022 ppb	118.754 %
Concentration RSD	32.5 %	14.3 %	2.7 %	3.4 %	3.6 %	41.6 %	38.2 %	7.5 %	3.6 %

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Analysis index: 101
Analysis label: L2046368-13 MCP-6020TL-10
Analysis started at: 10/29/2020 3:49:26 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	118.292 %	139.948 %	-0.004 ppb	5.520 ppb	3.315 ppb	2.778 ppb	1.121 ppb	17.254 ppb	118.068 %
Concentration per Run 1	127.829 %	145.465 %	-0.009 ppb	5.229 ppb	3.851 ppb	3.067 ppb	3.707 ppb	26.632 ppb	126.786 %
Concentration per Run 2	121.777 %	140.531 %	0.001 ppb	7.394 ppb	1.638 ppb	2.692 ppb	0.465 ppb	16.849 ppb	120.462 %
Concentration per Run 3	105.268 %	133.847 %	-0.003 ppb	3.939 ppb	4.457 ppb	2.576 ppb	-0.809 ppb	8.282 ppb	106.958 %
Concentration RSD	9.9 %	4.2 %	137.5 %	31.6 %	44.8 %	9.2 %	207.7 %	53.2 %	8.6 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.107 ppb	-0.025 ppb	0.686 ppb	0.126 ppb	3.497 ppb	0.008 ppb	0.295 ppb	0.124 ppb	0.317 ppb
Concentration per Run 1	0.091 ppb	-0.023 ppb	0.669 ppb	0.132 ppb	3.736 ppb	0.008 ppb	0.422 ppb	0.156 ppb	0.308 ppb
Concentration per Run 2	0.035 ppb	-0.035 ppb	0.696 ppb	0.090 ppb	3.111 ppb	0.008 ppb	0.258 ppb	0.105 ppb	0.339 ppb
Concentration per Run 3	0.196 ppb	-0.019 ppb	0.692 ppb	0.154 ppb	3.645 ppb	0.008 ppb	0.205 ppb	0.111 ppb	0.304 ppb
Concentration RSD	76.2 %	31.7 %	2.2 %	25.7 %	9.6 %	2.0 %	38.4 %	22.4 %	6.0 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	121.273 %	0.035 ppb	0.037 ppb	0.019 ppb	0.108 ppb	118.133 %	0.001 ppb	0.001 ppb	126.949 %
Concentration per Run 1	121.988 %	0.052 ppb	0.017 ppb	0.023 ppb	0.135 ppb	121.238 %	-0.001 ppb	0.002 ppb	131.024 %
Concentration per Run 2	122.557 %	0.037 ppb	0.017 ppb	0.018 ppb	0.074 ppb	118.651 %	0.000 ppb	0.000 ppb	126.596 %
Concentration per Run 3	119.275 %	0.016 ppb	0.078 ppb	0.017 ppb	0.116 ppb	114.509 %	0.002 ppb	0.000 ppb	123.227 %
Concentration RSD	1.4 %	52.4 %	95.7 %	16.5 %	29.0 %	2.9 %	212.0 %	173.2 %	3.1 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.564 ppb	0.105 ppb	0.037 ppb	121.649 %	124.250 %	-0.037 ppb	0.011 ppb	0.012 ppb	120.429 %
Concentration per Run 1	0.516 ppb	0.103 ppb	0.049 ppb	125.005 %	127.738 %	-0.046 ppb	0.008 ppb	0.013 ppb	123.945 %
Concentration per Run 2	0.602 ppb	0.094 ppb	0.018 ppb	121.947 %	123.881 %	-0.043 ppb	0.014 ppb	0.011 ppb	119.963 %
Concentration per Run 3	0.572 ppb	0.119 ppb	0.044 ppb	117.994 %	121.131 %	-0.022 ppb	0.012 ppb	0.012 ppb	117.380 %
Concentration RSD	7.8 %	12.3 %	45.4 %	2.9 %	2.7 %	35.9 %	27.8 %	10.0 %	2.7 %

Analysis index: 102 Analysis started at: 10/29/2020 3:54:31 PM
Analysis label: CCV User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	121.021 %	141.805 %	63.368 ppb	6,038.988 ppb	6,046.119 ppb	62.302 ppb	6,178.631 ppb	6,022.895 ppb	135.948 %
Concentration per Run 1	126.744 %	147.534 %	58.021 ppb	5,719.077 ppb	5,701.530 ppb	56.658 ppb	5,798.930 ppb	5,808.097 ppb	137.341 %
Concentration per Run 2	120.026 %	147.693 %	64.565 ppb	5,895.248 ppb	5,878.779 ppb	61.520 ppb	6,089.679 ppb	5,977.973 ppb	135.075 %
Concentration per Run 3	116.292 %	130.186 %	67.517 ppb	6,502.639 ppb	6,558.049 ppb	68.729 ppb	6,647.283 ppb	6,282.616 ppb	135.428 %
Recovery Percentage 1			105.613 %	100.650 %	100.769 %	103.837 %	102.977 %	100.382 %	
Concentration RSD	4.4 %	7.1 %	7.7 %	6.8 %	7.5 %	9.7 %	7.0 %	4.0 %	0.9 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	59.080 ppb	57.425 ppb	56.010 ppb	58.665 ppb	5,880.937 ppb	58.373 ppb	58.793 ppb	57.595 ppb	59.514 ppb
Concentration per Run 1	57.463 ppb	56.114 ppb	55.774 ppb	56.781 ppb	5,815.844 ppb	59.000 ppb	60.643 ppb	58.613 ppb	60.131 ppb
Concentration per Run 2	57.847 ppb	56.462 ppb	54.008 ppb	58.176 ppb	5,804.302 ppb	57.468 ppb	57.587 ppb	56.834 ppb	57.724 ppb
Concentration per Run 3	61.931 ppb	59.700 ppb	58.247 ppb	61.038 ppb	6,022.665 ppb	58.652 ppb	58.148 ppb	57.337 ppb	60.686 ppb
Recovery Percentage 1	98.467 %	95.709 %	93.350 %	97.775 %	98.016 %	97.289 %	97.988 %	95.991 %	99.190 %
Concentration RSD	4.2 %	3.4 %	3.8 %	3.7 %	2.1 %	1.4 %	2.8 %	1.6 %	2.6 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	124.794 %	59.853 ppb	60.468 ppb	61.656 ppb	58.027 ppb	118.887 %	59.336 ppb	59.672 ppb	127.702 %
Concentration per Run 1	122.409 %	60.286 ppb	60.126 ppb	59.872 ppb	58.407 ppb	118.367 %	59.890 ppb	59.899 ppb	123.556 %
Concentration per Run 2	127.121 %	59.356 ppb	59.826 ppb	62.336 ppb	58.202 ppb	119.315 %	59.073 ppb	59.646 ppb	129.731 %
Concentration per Run 3	124.851 %	59.915 ppb	61.454 ppb	62.760 ppb	57.471 ppb	118.978 %	59.046 ppb	59.471 ppb	129.818 %
Recovery Percentage 1		99.754 %	100.781 %	102.761 %	96.711 %		98.894 %	99.453 %	
Concentration RSD	1.9 %	0.8 %	1.4 %	2.5 %	0.8 %	0.4 %	0.8 %	0.4 %	2.8 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	59.434 ppb	59.106 ppb	60.077 ppb	126.416 %	129.137 %	57.485 ppb	58.646 ppb	59.434 ppb	122.061 %
Concentration per Run 1	59.059 ppb	59.675 ppb	60.023 ppb	124.768 %	125.896 %	60.075 ppb	58.894 ppb	59.929 ppb	120.752 %
Concentration per Run 2	58.799 ppb	58.664 ppb	59.603 ppb	126.748 %	129.871 %	56.064 ppb	58.442 ppb	58.985 ppb	122.584 %
Concentration per Run 3	60.442 ppb	58.979 ppb	60.603 ppb	127.731 %	131.643 %	56.315 ppb	58.602 ppb	59.388 ppb	122.848 %
Recovery Percentage 1	99.056 %	98.509 %	100.128 %			95.808 %	97.744 %	99.057 %	
Concentration RSD	1.5 %	0.9 %	0.8 %	1.2 %	2.3 %	3.9 %	0.4 %	0.8 %	0.9 %

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Analysis index: 103 Analysis started at: 10/29/2020 3:59:40 PM
Analysis label: CCB User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	111.316 %	133.582 %	-0.001 ppb	-2.483 ppb	0.633 ppb	0.056 ppb	-0.686 ppb	5.096 ppb	109.858 %
Concentration per Run 1	108.379 %	127.799 %	0.002 ppb	-2.016 ppb	0.881 ppb	0.000 ppb	0.744 ppb	11.795 ppb	104.324 %
Concentration per Run 2	98.857 %	134.961 %	0.000 ppb	-1.672 ppb	0.513 ppb	-0.048 ppb	0.072 ppb	3.083 ppb	101.756 %
Concentration per Run 3	126.714 %	137.985 %	-0.005 ppb	-3.762 ppb	0.504 ppb	0.216 ppb	-2.875 ppb	0.410 ppb	123.493 %
Recovery Percentage 1			-0.216 %	-2.483 %	0.904 %	0.558 %	-0.686 %	5.096 %	
Concentration RSD	12.7 %	3.9 %	305.5 %	45.1 %	34.1 %	251.7 %	280.4 %	116.8 %	10.8 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.277 ppb	-0.013 ppb	0.002 ppb	0.027 ppb	21.535 ppb	0.003 ppb	0.053 ppb	-0.002 ppb	-0.004 ppb
Concentration per Run 1	0.294 ppb	-0.070 ppb	-0.015 ppb	0.038 ppb	23.692 ppb	0.000 ppb	0.121 ppb	0.022 ppb	0.003 ppb
Concentration per Run 2	0.257 ppb	-0.006 ppb	-0.016 ppb	0.035 ppb	23.768 ppb	0.008 ppb	0.034 ppb	-0.004 ppb	-0.013 ppb
Concentration per Run 3	0.280 ppb	0.035 ppb	0.037 ppb	0.006 ppb	17.143 ppb	0.000 ppb	0.003 ppb	-0.024 ppb	-0.001 ppb
Recovery Percentage 1	55.372 %	-0.268 %	0.194 %	2.650 %	43.069 %	0.549 %	2.633 %	-0.203 %	-0.036 %
Concentration RSD	6.7 %	396.1 %	1,576.4 %	68.1 %	17.7 %	173.2 %	116.0 %	1,133.6 %	243.2 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	114.574 %	0.073 ppb	0.106 ppb	0.009 ppb	0.862 ppb	111.172 %	0.002 ppb	0.001 ppb	119.669 %
Concentration per Run 1	111.912 %	0.053 ppb	0.060 ppb	0.007 ppb	0.698 ppb	110.891 %	0.002 ppb	0.000 ppb	117.926 %
Concentration per Run 2	117.642 %	0.040 ppb	0.052 ppb	0.008 ppb	0.806 ppb	112.186 %	0.000 ppb	0.000 ppb	121.638 %
Concentration per Run 3	114.168 %	0.124 ppb	0.207 ppb	0.011 ppb	1.080 ppb	110.440 %	0.004 ppb	0.002 ppb	119.444 %
Recovery Percentage 1		14.500 %	2.123 %	1.754 %	43.081 %		0.595 %	0.415 %	
Concentration RSD	2.5 %	62.3 %	82.2 %	24.4 %	22.9 %	0.8 %	81.1 %	173.2 %	1.6 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.998 ppb	0.106 ppb	0.039 ppb	116.311 %	119.352 %	1.019 ppb	0.370 ppb	0.035 ppb	116.355 %
Concentration per Run 1	0.879 ppb	0.089 ppb	0.054 ppb	115.357 %	117.308 %	0.834 ppb	0.364 ppb	0.038 ppb	115.835 %
Concentration per Run 2	1.068 ppb	0.106 ppb	0.010 ppb	117.016 %	119.450 %	1.057 ppb	0.384 ppb	0.031 ppb	116.224 %
Concentration per Run 3	1.046 ppb	0.123 ppb	0.053 ppb	116.560 %	121.296 %	1.167 ppb	0.361 ppb	0.036 ppb	117.006 %
Recovery Percentage 1	33.255 %	2.649 %	7.843 %			50.974 %	73.948 %	3.488 %	
Concentration RSD	10.3 %	15.8 %	64.1 %	0.7 %	1.7 %	16.7 %	3.4 %	9.9 %	0.5 %

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Analysis index: 104
Analysis label: WG1427641-5D10 6020TL
Analysis started at: 10/29/2020 4:08:01 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	122.174 %	143.874 %	57.240 ppb	30,811.049 ppb	6,009.811 ppb	67.921 ppb	6,281.263 ppb	8,826.143 ppb	128.253 %
Concentration per Run 1	124.721 %	146.739 %	55.941 ppb	30,404.564 ppb	5,888.597 ppb	68.676 ppb	6,150.230 ppb	8,618.308 ppb	127.209 %
Concentration per Run 2	122.385 %	151.195 %	58.148 ppb	30,030.071 ppb	5,848.750 ppb	66.274 ppb	6,237.374 ppb	9,009.600 ppb	130.114 %
Concentration per Run 3	119.415 %	133.688 %	57.631 ppb	31,998.510 ppb	6,292.087 ppb	68.814 ppb	6,456.183 ppb	8,850.521 ppb	127.436 %
Concentration RSD	2.2 %	6.3 %	2.0 %	3.4 %	4.1 %	2.1 %	2.5 %	2.2 %	1.3 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	56.095 ppb	48.204 ppb	47.501 ppb	67.788 ppb	4,976.777 ppb	48.343 ppb	49.534 ppb	48.028 ppb	50.276 ppb
Concentration per Run 1	56.545 ppb	47.148 ppb	47.546 ppb	66.499 ppb	4,969.890 ppb	49.005 ppb	51.377 ppb	47.312 ppb	50.161 ppb
Concentration per Run 2	56.412 ppb	47.786 ppb	47.019 ppb	67.650 ppb	4,997.614 ppb	47.404 ppb	49.301 ppb	47.759 ppb	50.371 ppb
Concentration per Run 3	55.326 ppb	49.678 ppb	47.937 ppb	69.216 ppb	4,962.828 ppb	48.622 ppb	47.922 ppb	49.012 ppb	50.295 ppb
Concentration RSD	1.2 %	2.7 %	1.0 %	2.0 %	0.4 %	1.7 %	3.5 %	1.8 %	0.2 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	128.132 %	50.311 ppb	53.338 ppb	67.731 ppb	48.609 ppb	118.657 %	1.260 ppb	49.275 ppb	132.373 %
Concentration per Run 1	126.580 %	51.705 ppb	53.571 ppb	68.089 ppb	49.686 ppb	120.017 %	1.247 ppb	49.430 ppb	131.296 %
Concentration per Run 2	130.154 %	50.750 ppb	56.689 ppb	70.889 ppb	50.275 ppb	116.869 %	1.291 ppb	50.409 ppb	134.395 %
Concentration per Run 3	127.661 %	48.478 ppb	49.753 ppb	64.215 ppb	45.866 ppb	119.086 %	1.242 ppb	47.988 ppb	131.427 %
Concentration RSD	1.4 %	3.3 %	6.5 %	4.9 %	4.9 %	1.4 %	2.2 %	2.5 %	1.3 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	47.053 ppb	51.649 ppb	56.386 ppb	127.909 %	133.302 %	39.564 ppb	48.251 ppb	49.676 ppb	121.988 %
Concentration per Run 1	47.166 ppb	51.837 ppb	56.158 ppb	128.166 %	132.366 %	40.495 ppb	49.037 ppb	50.199 ppb	121.544 %
Concentration per Run 2	47.693 ppb	53.275 ppb	59.026 ppb	128.174 %	135.041 %	39.715 ppb	48.758 ppb	50.771 ppb	122.042 %
Concentration per Run 3	46.301 ppb	49.833 ppb	53.975 ppb	127.385 %	132.498 %	38.482 ppb	46.957 ppb	48.059 ppb	122.378 %
Concentration RSD	1.5 %	3.3 %	4.5 %	0.4 %	1.1 %	2.6 %	2.3 %	2.9 %	0.3 %

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Analysis started at: 10/29/2020 4:13:08 PM
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Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	134.287 %	168.808 %	0.036 ppb	280,170.620 ppb	8,234.923 ppb	148.780 ppb	9,291.445 ppb	34,324.819 ppb	139.766 %
Concentration per Run 1	141.977 %	165.360 %	0.039 ppb	277,960.625 ppb	8,100.741 ppb	136.775 ppb	9,197.852 ppb	33,692.321 ppb	145.290 %
Concentration per Run 2	131.738 %	173.159 %	0.028 ppb	288,318.301 ppb	8,489.030 ppb	152.129 ppb	9,641.997 ppb	35,950.840 ppb	136.292 %
Concentration per Run 3	129.146 %	167.907 %	0.043 ppb	274,232.934 ppb	8,114.999 ppb	157.435 ppb	9,034.486 ppb	33,331.295 ppb	137.716 %
Concentration RSD	5.1 %	2.4 %	21.4 %	2.6 %	2.7 %	7.2 %	3.4 %	4.1 %	3.5 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	50.761 ppb	0.317 ppb	0.433 ppb	184.382 ppb	573.067 ppb	1.252 ppb	3.890 ppb	0.206 ppb	0.693 ppb
Concentration per Run 1	50.163 ppb	0.419 ppb	0.383 ppb	182.261 ppb	559.744 ppb	1.242 ppb	3.870 ppb	0.309 ppb	0.745 ppb
Concentration per Run 2	52.342 ppb	0.220 ppb	0.423 ppb	188.828 ppb	587.093 ppb	1.274 ppb	3.942 ppb	0.131 ppb	0.665 ppb
Concentration per Run 3	49.778 ppb	0.313 ppb	0.493 ppb	182.058 ppb	572.363 ppb	1.239 ppb	3.858 ppb	0.178 ppb	0.669 ppb
Concentration RSD	2.7 %	31.4 %	12.8 %	2.1 %	2.4 %	1.6 %	1.2 %	44.9 %	6.5 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	135.694 %	1.512 ppb	0.447 ppb	164.572 ppb	2.723 ppb	119.816 %	0.003 ppb	0.005 ppb	134.329 %
Concentration per Run 1	134.076 %	1.508 ppb	0.445 ppb	162.621 ppb	2.531 ppb	118.527 %	0.003 ppb	0.000 ppb	131.427 %
Concentration per Run 2	143.344 %	1.448 ppb	0.460 ppb	168.370 ppb	2.603 ppb	121.799 %	0.004 ppb	0.006 ppb	141.033 %
Concentration per Run 3	129.663 %	1.580 ppb	0.435 ppb	162.726 ppb	3.035 ppb	119.120 %	0.004 ppb	0.009 ppb	130.527 %
Concentration RSD	5.1 %	4.4 %	2.8 %	2.0 %	10.0 %	1.5 %	13.1 %	90.4 %	4.3 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.195 ppb	0.176 ppb	65.737 ppb	133.791 %	136.440 %	1.360 ppb	0.481 ppb	0.154 ppb	111.144 %
Concentration per Run 1	1.107 ppb	0.151 ppb	67.292 ppb	132.751 %	135.332 %	1.123 ppb	0.502 ppb	0.156 ppb	111.307 %
Concentration per Run 2	1.247 ppb	0.191 ppb	65.931 ppb	137.792 %	143.103 %	1.331 ppb	0.478 ppb	0.153 ppb	113.657 %
Concentration per Run 3	1.232 ppb	0.186 ppb	63.988 ppb	130.829 %	130.886 %	1.628 ppb	0.465 ppb	0.153 ppb	108.469 %
Concentration RSD	6.5 %	12.4 %	2.5 %	2.7 %	4.5 %	18.7 %	3.8 %	0.9 %	2.3 %

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Analysis index: 106
Analysis label: L2046390-01 6020TL
Analysis started at: 10/29/2020 4:18:15 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	155.953 %	179.366 %	0.025 ppb	288,417.136 ppb	8,492.809 ppb	135.163 ppb	9,432.250 ppb	34,934.757 ppb	161.329 %
Concentration per Run 1	161.916 %	183.981 %	0.028 ppb	277,816.771 ppb	8,118.679 ppb	132.562 ppb	8,892.295 ppb	33,505.212 ppb	162.820 %
Concentration per Run 2	154.948 %	176.819 %	0.022 ppb	297,767.653 ppb	8,771.552 ppb	145.283 ppb	10,035.481 ppb	36,577.666 ppb	161.578 %
Concentration per Run 3	150.995 %	177.297 %	0.026 ppb	289,666.985 ppb	8,588.197 ppb	127.645 ppb	9,368.974 ppb	34,721.394 ppb	159.590 %
Concentration RSD	3.5 %	2.2 %	10.8 %	3.5 %	4.0 %	6.7 %	6.1 %	4.4 %	1.0 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	50.824 ppb	0.376 ppb	0.386 ppb	185.147 ppb	564.371 ppb	1.388 ppb	4.129 ppb	0.187 ppb	0.908 ppb
Concentration per Run 1	48.445 ppb	0.387 ppb	0.318 ppb	179.977 ppb	565.403 ppb	1.481 ppb	3.893 ppb	0.256 ppb	0.966 ppb
Concentration per Run 2	52.932 ppb	0.368 ppb	0.465 ppb	189.814 ppb	577.670 ppb	1.288 ppb	4.265 ppb	0.167 ppb	0.836 ppb
Concentration per Run 3	51.095 ppb	0.373 ppb	0.375 ppb	185.651 ppb	550.039 ppb	1.393 ppb	4.230 ppb	0.138 ppb	0.923 ppb
Concentration RSD	4.4 %	2.6 %	19.2 %	2.7 %	2.5 %	7.0 %	5.0 %	32.9 %	7.3 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	143.356 %	1.405 ppb	0.313 ppb	165.976 ppb	2.156 ppb	125.873 %	0.002 ppb	0.004 ppb	139.313 %
Concentration per Run 1	144.138 %	1.399 ppb	0.382 ppb	160.542 ppb	1.994 ppb	127.185 %	0.004 ppb	0.002 ppb	139.382 %
Concentration per Run 2	141.699 %	1.372 ppb	0.367 ppb	175.293 ppb	2.210 ppb	123.498 %	0.003 ppb	0.009 ppb	138.527 %
Concentration per Run 3	144.229 %	1.443 ppb	0.189 ppb	162.094 ppb	2.264 ppb	126.938 %	-0.001 ppb	0.002 ppb	140.029 %
Concentration RSD	1.0 %	2.6 %	34.2 %	4.9 %	6.6 %	1.6 %	116.7 %	87.4 %	0.5 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.628 ppb	0.104 ppb	66.151 ppb	137.975 %	139.399 %	0.449 ppb	0.163 ppb	0.111 ppb	113.235 %
Concentration per Run 1	0.522 ppb	0.096 ppb	65.243 ppb	138.987 %	140.421 %	0.326 ppb	0.152 ppb	0.102 ppb	114.916 %
Concentration per Run 2	0.637 ppb	0.109 ppb	67.808 ppb	135.476 %	135.649 %	0.476 ppb	0.174 ppb	0.121 ppb	110.253 %
Concentration per Run 3	0.723 ppb	0.107 ppb	65.403 ppb	139.461 %	142.128 %	0.544 ppb	0.163 ppb	0.108 ppb	114.536 %
Concentration RSD	16.0 %	6.9 %	2.2 %	1.6 %	2.4 %	24.9 %	6.8 %	8.8 %	2.3 %

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Analysis index: 107
Analysis label: L2046818-01 6020TL
Analysis started at: 10/29/2020 4:23:21 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	156.612 %	184.300 %	0.057 ppb	258,668.073 ppb	47,894.588 ppb	51.277 ppb	35,908.112 ppb	204,664.174 ppb	178.268 %
Concentration per Run 1	158.549 %	190.348 %	0.060 ppb	259,717.222 ppb	48,259.743 ppb	51.944 ppb	36,185.493 ppb	204,265.404 ppb	179.241 %
Concentration per Run 2	155.262 %	185.096 %	0.058 ppb	249,719.289 ppb	45,985.367 ppb	51.771 ppb	35,007.288 ppb	201,943.182 ppb	177.404 %
Concentration per Run 3	156.027 %	177.456 %	0.054 ppb	266,567.708 ppb	49,438.654 ppb	50.116 ppb	36,531.555 ppb	207,783.936 ppb	178.158 %
Concentration RSD	1.1 %	3.5 %	5.8 %	3.3 %	3.7 %	2.0 %	2.2 %	1.4 %	0.5 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	287.839 ppb	1.210 ppb	1.074 ppb	5,663.073 ppb	20,484.573 ppb	1.754 ppb	11.530 ppb	2.169 ppb	14.799 ppb
Concentration per Run 1	289.615 ppb	1.112 ppb	1.044 ppb	5,622.504 ppb	20,483.070 ppb	1.762 ppb	11.176 ppb	1.979 ppb	14.487 ppb
Concentration per Run 2	283.251 ppb	1.253 ppb	1.163 ppb	5,551.164 ppb	20,382.840 ppb	1.630 ppb	11.175 ppb	2.188 ppb	15.007 ppb
Concentration per Run 3	290.650 ppb	1.264 ppb	1.015 ppb	5,815.551 ppb	20,587.809 ppb	1.870 ppb	12.239 ppb	2.338 ppb	14.903 ppb
Concentration RSD	1.4 %	7.0 %	7.3 %	2.4 %	0.5 %	6.9 %	5.3 %	8.3 %	1.9 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	146.648 %	4.392 ppb	0.385 ppb	1,037.062 ppb	1.684 ppb	125.291 %	0.001 ppb	0.008 ppb	142.632 %
Concentration per Run 1	150.482 %	4.361 ppb	0.270 ppb	1,072.936 ppb	1.566 ppb	126.969 %	-0.001 ppb	0.012 ppb	147.073 %
Concentration per Run 2	143.722 %	4.351 ppb	0.481 ppb	981.690 ppb	1.607 ppb	124.115 %	0.000 ppb	0.011 ppb	138.353 %
Concentration per Run 3	145.739 %	4.464 ppb	0.402 ppb	1,056.562 ppb	1.880 ppb	124.789 %	0.002 ppb	0.002 ppb	142.472 %
Concentration RSD	2.4 %	1.4 %	27.7 %	4.7 %	10.1 %	1.2 %	254.9 %	65.5 %	3.1 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.508 ppb	0.188 ppb	133.689 ppb	134.906 %	135.288 %	0.683 ppb	0.099 ppb	0.205 ppb	110.097 %
Concentration per Run 1	0.407 ppb	0.199 ppb	137.689 ppb	138.207 %	138.997 %	0.615 ppb	0.092 ppb	0.203 ppb	112.272 %
Concentration per Run 2	0.493 ppb	0.169 ppb	128.773 ppb	132.301 %	131.789 %	0.691 ppb	0.103 ppb	0.204 ppb	107.742 %
Concentration per Run 3	0.622 ppb	0.195 ppb	134.606 ppb	134.210 %	135.077 %	0.744 ppb	0.102 ppb	0.207 ppb	110.277 %
Concentration RSD	21.3 %	8.8 %	3.4 %	2.2 %	2.7 %	9.4 %	6.6 %	1.1 %	2.1 %

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Analysis started at: 10/29/2020 4:28:26 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	161.047 %	182.708 %	0.121 ppb	103,253.721 ppb	134,380.039 ppb	156.195 ppb	8,345.121 ppb	177,736.711 ppb	168.963 %
Concentration per Run 1	164.113 %	177.615 %	0.115 ppb	110,726.229 ppb	144,445.188 ppb	169.866 ppb	9,037.668 ppb	190,982.572 ppb	170.813 %
Concentration per Run 2	160.144 %	179.525 %	0.124 ppb	101,506.161 ppb	132,614.292 ppb	152.032 ppb	8,051.161 ppb	171,717.922 ppb	167.385 %
Concentration per Run 3	158.883 %	190.984 %	0.125 ppb	97,528.772 ppb	126,080.636 ppb	146.688 ppb	7,946.533 ppb	170,509.639 ppb	168.691 %
Concentration RSD	1.7 %	4.0 %	4.4 %	6.6 %	6.9 %	7.8 %	7.2 %	6.5 %	1.0 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	257.199 ppb	6.051 ppb	0.915 ppb	8,182.793 ppb	32,634.279 ppb	0.523 ppb	2.179 ppb	2.332 ppb	2.784 ppb
Concentration per Run 1	273.183 ppb	6.858 ppb	0.874 ppb	8,572.417 ppb	33,293.026 ppb	0.532 ppb	2.081 ppb	2.305 ppb	2.907 ppb
Concentration per Run 2	248.166 ppb	5.456 ppb	1.025 ppb	8,004.940 ppb	32,871.883 ppb	0.512 ppb	2.352 ppb	2.502 ppb	2.738 ppb
Concentration per Run 3	250.249 ppb	5.838 ppb	0.847 ppb	7,971.022 ppb	31,737.929 ppb	0.523 ppb	2.105 ppb	2.188 ppb	2.708 ppb
Concentration RSD	5.4 %	12.0 %	10.5 %	4.1 %	2.5 %	1.9 %	6.9 %	6.8 %	3.9 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	139.341 %	33.811 ppb	0.705 ppb	2,054.863 ppb	7.246 ppb	122.210 %	0.002 ppb	0.032 ppb	139.026 %
Concentration per Run 1	146.301 %	34.349 ppb	0.710 ppb	2,112.174 ppb	7.463 ppb	124.375 %	0.000 ppb	0.039 ppb	147.370 %
Concentration per Run 2	132.121 %	33.757 ppb	0.607 ppb	2,033.321 ppb	7.239 ppb	121.583 %	0.004 ppb	0.023 ppb	131.577 %
Concentration per Run 3	139.601 %	33.328 ppb	0.798 ppb	2,019.092 ppb	7.035 ppb	120.672 %	0.003 ppb	0.033 ppb	138.129 %
Concentration RSD	5.1 %	1.5 %	13.5 %	2.4 %	3.0 %	1.6 %	81.4 %	26.8 %	5.7 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.489 ppb	0.275 ppb	1,123.238 ppb	130.349 %	131.396 %	0.903 ppb	0.086 ppb	0.376 ppb	111.820 %
Concentration per Run 1	0.413 ppb	0.275 ppb	1,126.122 ppb	134.671 %	137.179 %	0.824 ppb	0.076 ppb	0.369 ppb	114.485 %
Concentration per Run 2	0.533 ppb	0.268 ppb	1,116.976 ppb	127.299 %	126.322 %	0.960 ppb	0.095 ppb	0.385 ppb	109.580 %
Concentration per Run 3	0.521 ppb	0.282 ppb	1,126.614 ppb	129.078 %	130.688 %	0.923 ppb	0.087 ppb	0.374 ppb	111.394 %
Concentration RSD	13.6 %	2.7 %	0.5 %	3.0 %	4.2 %	7.8 %	11.2 %	2.2 %	2.2 %

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Analysis index: 109
Analysis label: L2046818-03 6020TL
Analysis started at: 10/29/2020 4:33:32 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	130.579 %	159.524 %	1.122 ppb	141,950.942 ppb	34,822.159 ppb	7,158.755 ppb	11,039.918 ppb	41,744.051 ppb	137.335 %
Concentration per Run 1	142.515 %	164.883 %	1.025 ppb	140,372.887 ppb	34,494.118 ppb	7,244.903 ppb	11,241.017 ppb	41,792.946 ppb	146.972 %
Concentration per Run 2	128.858 %	153.582 %	1.191 ppb	142,635.957 ppb	34,798.969 ppb	7,122.663 ppb	10,987.051 ppb	41,647.747 ppb	133.692 %
Concentration per Run 3	120.363 %	160.108 %	1.151 ppb	142,843.982 ppb	35,173.390 ppb	7,108.699 ppb	10,891.687 ppb	41,791.458 ppb	131.341 %
Concentration RSD	8.6 %	3.6 %	7.7 %	1.0 %	1.0 %	1.0 %	1.6 %	0.2 %	6.1 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	133.453 ppb	12.082 ppb	19.571 ppb	6,610.841 ppb	16,920.453 ppb	38.005 ppb	44.108 ppb	7.619 ppb	66.973 ppb
Concentration per Run 1	128.537 ppb	11.756 ppb	19.406 ppb	6,718.771 ppb	16,944.801 ppb	38.220 ppb	44.564 ppb	7.509 ppb	67.460 ppb
Concentration per Run 2	135.048 ppb	12.015 ppb	19.555 ppb	6,572.825 ppb	16,998.380 ppb	37.893 ppb	43.881 ppb	7.920 ppb	66.529 ppb
Concentration per Run 3	136.774 ppb	12.477 ppb	19.753 ppb	6,540.928 ppb	16,818.178 ppb	37.903 ppb	43.879 ppb	7.429 ppb	66.928 ppb
Concentration RSD	3.3 %	3.0 %	0.9 %	1.4 %	0.5 %	0.5 %	0.9 %	3.5 %	0.7 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	136.882 %	29.814 ppb	5.715 ppb	394.137 ppb	0.786 ppb	119.902 %	0.020 ppb	0.347 ppb	135.657 %
Concentration per Run 1	136.973 %	30.180 ppb	5.593 ppb	405.823 ppb	0.688 ppb	121.343 %	0.016 ppb	0.338 ppb	139.816 %
Concentration per Run 2	136.389 %	29.648 ppb	6.035 ppb	384.629 ppb	0.708 ppb	119.029 %	0.019 ppb	0.349 ppb	133.435 %
Concentration per Run 3	137.284 %	29.614 ppb	5.517 ppb	391.961 ppb	0.961 ppb	119.336 %	0.024 ppb	0.353 ppb	133.720 %
Concentration RSD	0.3 %	1.1 %	4.9 %	2.7 %	19.4 %	1.0 %	19.5 %	2.2 %	2.7 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.598 ppb	0.129 ppb	170.011 ppb	125.622 %	125.588 %	0.136 ppb	0.491 ppb	11.709 ppb	113.211 %
Concentration per Run 1	0.553 ppb	0.123 ppb	167.999 ppb	126.189 %	126.901 %	0.117 ppb	0.498 ppb	11.701 ppb	112.860 %
Concentration per Run 2	0.584 ppb	0.136 ppb	169.705 ppb	124.864 %	123.665 %	0.123 ppb	0.483 ppb	11.654 ppb	113.515 %
Concentration per Run 3	0.657 ppb	0.128 ppb	172.329 ppb	125.814 %	126.197 %	0.169 ppb	0.491 ppb	11.773 ppb	113.259 %
Concentration RSD	8.9 %	5.3 %	1.3 %	0.5 %	1.4 %	20.9 %	1.5 %	0.5 %	0.3 %

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Analysis index: 110
Analysis label: L2046818-04 6020TL
Analysis started at: 10/29/2020 4:38:37 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	144.514 %	167.429 %	0.138 ppb	128,301.580 ppb	65,181.456 ppb	84.345 ppb	6,205.661 ppb	74,025.079 ppb	149.917 %
Concentration per Run 1	131.376 %	169.976 %	0.157 ppb	126,929.910 ppb	64,209.820 ppb	83.878 ppb	6,087.653 ppb	71,588.979 ppb	138.270 %
Concentration per Run 2	146.975 %	169.975 %	0.128 ppb	126,474.749 ppb	64,670.296 ppb	82.881 ppb	6,249.841 ppb	74,479.592 ppb	152.597 %
Concentration per Run 3	155.189 %	162.336 %	0.127 ppb	131,500.080 ppb	66,664.252 ppb	86.275 ppb	6,279.488 ppb	76,006.666 ppb	158.886 %
Concentration RSD	8.4 %	2.6 %	12.5 %	2.2 %	2.0 %	2.1 %	1.7 %	3.0 %	7.0 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	108.080 ppb	0.098 ppb	0.841 ppb	5,995.283 ppb	28,894.455 ppb	0.374 ppb	1.343 ppb	0.251 ppb	1.930 ppb
Concentration per Run 1	104.401 ppb	0.106 ppb	0.824 ppb	5,891.560 ppb	28,448.915 ppb	0.370 ppb	1.236 ppb	0.166 ppb	1.921 ppb
Concentration per Run 2	109.513 ppb	0.081 ppb	0.816 ppb	6,013.812 ppb	28,951.051 ppb	0.376 ppb	1.494 ppb	0.247 ppb	1.912 ppb
Concentration per Run 3	110.327 ppb	0.107 ppb	0.882 ppb	6,080.478 ppb	29,283.401 ppb	0.376 ppb	1.300 ppb	0.340 ppb	1.956 ppb
Concentration RSD	3.0 %	14.7 %	4.3 %	1.6 %	1.5 %	1.0 %	10.0 %	34.7 %	1.2 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	132.123 %	41.492 ppb	0.174 ppb	782.965 ppb	0.468 ppb	118.034 %	0.000 ppb	0.001 ppb	132.584 %
Concentration per Run 1	130.622 %	41.467 ppb	0.168 ppb	770.692 ppb	0.368 ppb	118.717 %	0.001 ppb	0.002 ppb	132.597 %
Concentration per Run 2	132.602 %	42.184 ppb	0.190 ppb	794.673 ppb	0.496 ppb	117.513 %	-0.001 ppb	0.000 ppb	131.804 %
Concentration per Run 3	133.145 %	40.825 ppb	0.163 ppb	783.530 ppb	0.539 ppb	117.873 %	-0.001 ppb	0.000 ppb	133.352 %
Concentration RSD	1.0 %	1.6 %	8.4 %	1.5 %	19.0 %	0.5 %	509.1 %	173.2 %	0.6 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.232 ppb	0.107 ppb	419.766 ppb	128.270 %	130.141 %	0.088 ppb	0.042 ppb	1.100 ppb	111.554 %
Concentration per Run 1	0.166 ppb	0.091 ppb	416.062 ppb	129.625 %	130.677 %	0.048 ppb	0.035 ppb	1.082 ppb	111.984 %
Concentration per Run 2	0.274 ppb	0.123 ppb	423.102 ppb	126.335 %	128.631 %	0.103 ppb	0.045 ppb	1.123 ppb	109.584 %
Concentration per Run 3	0.255 ppb	0.108 ppb	420.133 ppb	128.849 %	131.114 %	0.114 ppb	0.046 ppb	1.095 ppb	113.094 %
Concentration RSD	24.9 %	14.9 %	0.8 %	1.3 %	1.0 %	40.3 %	14.4 %	1.9 %	1.6 %

Analysis index: 111
Analysis label: L2046818-05 6020TL
Analysis started at: 10/29/2020 4:43:43 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	145.593 %	180.692 %	0.011 ppb	262,946.169 ppb	19,469.564 ppb	121.920 ppb	10,143.033 ppb	57,918.738 ppb	147.814 %
Concentration per Run 1	148.927 %	168.384 %	0.009 ppb	264,609.305 ppb	19,864.853 ppb	120.343 ppb	9,836.224 ppb	57,174.390 ppb	149.179 %
Concentration per Run 2	144.794 %	180.957 %	0.015 ppb	268,766.205 ppb	19,891.773 ppb	125.252 ppb	10,687.213 ppb	59,979.264 ppb	147.817 %
Concentration per Run 3	143.057 %	192.735 %	0.009 ppb	255,462.998 ppb	18,652.065 ppb	120.167 ppb	9,905.662 ppb	56,602.560 ppb	146.447 %
Concentration RSD	2.1 %	6.7 %	27.9 %	2.6 %	3.6 %	2.4 %	4.7 %	3.1 %	0.9 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	82.613 ppb	1.510 ppb	37.765 ppb	616.932 ppb	710.999 ppb	1.727 ppb	614.237 ppb	4.679 ppb	6.376 ppb
Concentration per Run 1	83.255 ppb	1.551 ppb	38.035 ppb	614.845 ppb	724.700 ppb	1.783 ppb	625.687 ppb	4.759 ppb	6.625 ppb
Concentration per Run 2	83.457 ppb	1.669 ppb	38.829 ppb	635.082 ppb	721.710 ppb	1.746 ppb	626.536 ppb	4.654 ppb	6.506 ppb
Concentration per Run 3	81.127 ppb	1.309 ppb	36.429 ppb	600.869 ppb	686.587 ppb	1.653 ppb	590.487 ppb	4.625 ppb	5.996 ppb
Concentration RSD	1.6 %	12.1 %	3.2 %	2.8 %	3.0 %	3.9 %	3.3 %	1.5 %	5.2 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	145.711 %	1.592 ppb	0.820 ppb	423.976 ppb	12.562 ppb	125.900 %	0.005 ppb	0.087 ppb	140.186 %
Concentration per Run 1	140.524 %	1.577 ppb	1.040 ppb	411.951 ppb	12.503 ppb	120.930 %	0.004 ppb	0.073 ppb	130.704 %
Concentration per Run 2	145.393 %	1.554 ppb	0.832 ppb	440.739 ppb	12.794 ppb	126.706 %	0.007 ppb	0.111 ppb	143.432 %
Concentration per Run 3	151.216 %	1.646 ppb	0.590 ppb	419.237 ppb	12.387 ppb	130.065 %	0.004 ppb	0.078 ppb	146.423 %
Concentration RSD	3.7 %	3.0 %	27.5 %	3.5 %	1.7 %	3.7 %	32.9 %	24.0 %	6.0 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.200 ppb	0.673 ppb	106.601 ppb	137.228 %	137.639 %	0.167 ppb	0.062 ppb	0.656 ppb	114.290 %
Concentration per Run 1	0.133 ppb	0.701 ppb	109.073 ppb	132.031 %	131.393 %	0.142 ppb	0.057 ppb	0.654 ppb	111.580 %
Concentration per Run 2	0.226 ppb	0.700 ppb	108.117 ppb	137.559 %	138.640 %	0.166 ppb	0.068 ppb	0.658 ppb	114.207 %
Concentration per Run 3	0.241 ppb	0.619 ppb	102.614 ppb	142.094 %	142.886 %	0.193 ppb	0.060 ppb	0.654 ppb	117.083 %
Concentration RSD	29.3 %	7.0 %	3.3 %	3.7 %	4.2 %	15.1 %	9.0 %	0.4 %	2.4 %

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Analysis index: 112
Analysis label: WG1427641-6D5 6020TL
Analysis started at: 10/29/2020 4:48:49 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	150.401 %	163.185 %	0.008 ppb	56,798.047 ppb	1,747.992 ppb	28.376 ppb	1,852.658 ppb	7,025.362 ppb	150.809 %
Concentration per Run 1	162.495 %	160.744 %	0.006 ppb	56,492.054 ppb	1,729.330 ppb	28.018 ppb	1,832.176 ppb	6,923.925 ppb	161.245 %
Concentration per Run 2	148.985 %	163.927 %	0.008 ppb	57,081.792 ppb	1,734.208 ppb	29.436 ppb	1,861.090 ppb	7,077.550 ppb	149.365 %
Concentration per Run 3	139.724 %	164.882 %	0.008 ppb	56,820.295 ppb	1,780.438 ppb	27.674 ppb	1,864.707 ppb	7,074.612 ppb	141.817 %
Concentration RSD	7.6 %	1.3 %	16.5 %	0.5 %	1.6 %	3.3 %	1.0 %	1.3 %	6.5 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	10.323 ppb	0.062 ppb	0.073 ppb	38.547 ppb	142.072 ppb	0.292 ppb	0.818 ppb	0.000 ppb	0.396 ppb
Concentration per Run 1	10.787 ppb	0.072 ppb	0.091 ppb	38.290 ppb	140.908 ppb	0.316 ppb	0.853 ppb	0.006 ppb	0.405 ppb
Concentration per Run 2	10.311 ppb	0.040 ppb	0.061 ppb	38.379 ppb	140.076 ppb	0.306 ppb	0.786 ppb	-0.034 ppb	0.389 ppb
Concentration per Run 3	9.869 ppb	0.074 ppb	0.067 ppb	38.971 ppb	145.232 ppb	0.255 ppb	0.815 ppb	0.027 ppb	0.394 ppb
Concentration RSD	4.4 %	31.1 %	21.5 %	1.0 %	1.9 %	11.2 %	4.1 %	53,134.8 %	2.0 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	142.837 %	0.289 ppb	0.060 ppb	30.787 ppb	0.659 ppb	131.588 %	0.000 ppb	0.001 ppb	142.796 %
Concentration per Run 1	135.187 %	0.269 ppb	-0.022 ppb	30.254 ppb	0.473 ppb	129.150 %	0.001 ppb	0.000 ppb	137.533 %
Concentration per Run 2	148.653 %	0.291 ppb	0.063 ppb	30.997 ppb	0.732 ppb	133.669 %	-0.001 ppb	0.002 ppb	147.843 %
Concentration per Run 3	144.670 %	0.307 ppb	0.139 ppb	31.110 ppb	0.771 ppb	131.945 %	0.000 ppb	0.000 ppb	143.013 %
Concentration RSD	4.8 %	6.5 %	133.8 %	1.5 %	24.6 %	1.7 %	1,497.4 %	173.2 %	3.6 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.026 ppb	0.026 ppb	12.914 ppb	136.804 %	139.853 %	-0.007 ppb	0.024 ppb	0.021 ppb	126.948 %
Concentration per Run 1	0.018 ppb	0.018 ppb	12.822 ppb	132.783 %	134.430 %	-0.021 ppb	0.019 ppb	0.020 ppb	123.654 %
Concentration per Run 2	0.014 ppb	0.027 ppb	12.857 ppb	140.051 %	143.762 %	0.001 ppb	0.026 ppb	0.016 ppb	128.704 %
Concentration per Run 3	0.047 ppb	0.032 ppb	13.062 ppb	137.578 %	141.366 %	0.000 ppb	0.027 ppb	0.025 ppb	128.486 %
Concentration RSD	68.3 %	28.3 %	1.0 %	2.7 %	3.5 %	191.8 %	17.0 %	22.6 %	2.2 %

Alpha ICPMSQ Full

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Analysis index: 113
Analysis label: L2046818-07 6020TL
Analysis started at: 10/29/2020 4:53:54 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	136.133 %	152.733 %	0.009 ppb	9.359 ppb	4.642 ppb	2.104 ppb	4.454 ppb	29.743 ppb	137.659 %
Concentration per Run 1	140.479 %	140.850 %	0.010 ppb	7.397 ppb	4.184 ppb	2.478 ppb	8.276 ppb	25.469 ppb	138.245 %
Concentration per Run 2	135.709 %	164.723 %	0.010 ppb	3.260 ppb	2.097 ppb	2.048 ppb	2.822 ppb	29.485 ppb	139.535 %
Concentration per Run 3	132.212 %	152.627 %	0.005 ppb	17.420 ppb	7.644 ppb	1.787 ppb	2.265 ppb	34.274 ppb	135.197 %
Concentration RSD	3.0 %	7.8 %	36.1 %	77.8 %	60.4 %	16.6 %	74.6 %	14.8 %	1.6 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.107 ppb	-0.005 ppb	0.129 ppb	0.957 ppb	24.452 ppb	0.011 ppb	0.112 ppb	0.167 ppb	1.504 ppb
Concentration per Run 1	0.162 ppb	0.000 ppb	0.121 ppb	1.030 ppb	24.004 ppb	0.008 ppb	0.086 ppb	0.205 ppb	1.793 ppb
Concentration per Run 2	0.041 ppb	-0.010 ppb	0.134 ppb	0.650 ppb	21.990 ppb	0.017 ppb	0.113 ppb	0.119 ppb	1.309 ppb
Concentration per Run 3	0.118 ppb	-0.004 ppb	0.131 ppb	1.190 ppb	27.361 ppb	0.007 ppb	0.138 ppb	0.178 ppb	1.409 ppb
Concentration RSD	57.1 %	109.1 %	5.3 %	29.0 %	11.1 %	52.4 %	23.1 %	26.4 %	17.0 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	133.660 %	0.029 ppb	-0.019 ppb	0.325 ppb	0.113 ppb	127.997 %	0.002 ppb	0.009 ppb	137.178 %
Concentration per Run 1	129.077 %	-0.003 ppb	0.037 ppb	0.334 ppb	0.015 ppb	121.993 %	0.002 ppb	0.007 ppb	130.224 %
Concentration per Run 2	140.159 %	0.073 ppb	-0.074 ppb	0.263 ppb	0.080 ppb	134.494 %	0.003 ppb	0.012 ppb	143.804 %
Concentration per Run 3	131.745 %	0.017 ppb	-0.019 ppb	0.378 ppb	0.243 ppb	127.505 %	0.002 ppb	0.006 ppb	137.505 %
Concentration RSD	4.3 %	136.6 %	291.5 %	17.9 %	103.9 %	4.9 %	15.2 %	38.6 %	5.0 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.041 ppb	0.015 ppb	2.015 ppb	129.574 %	133.334 %	-0.009 ppb	0.020 ppb	0.044 ppb	127.269 %
Concentration per Run 1	0.044 ppb	0.011 ppb	2.296 ppb	122.787 %	126.430 %	-0.028 ppb	0.019 ppb	0.045 ppb	120.725 %
Concentration per Run 2	0.032 ppb	0.020 ppb	1.844 ppb	137.043 %	140.945 %	-0.018 ppb	0.017 ppb	0.040 ppb	133.783 %
Concentration per Run 3	0.047 ppb	0.015 ppb	1.906 ppb	128.892 %	132.626 %	0.020 ppb	0.023 ppb	0.046 ppb	127.299 %
Concentration RSD	18.7 %	28.8 %	12.2 %	5.5 %	5.5 %	296.5 %	15.6 %	6.9 %	5.1 %

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Analysis index: 114
Analysis label: CCV
Analysis started at: 10/29/2020 4:59:00 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	126.817 %	155.810 %	65.406 ppb	5,891.583 ppb	5,945.909 ppb	60.972 ppb	6,087.550 ppb	5,987.510 ppb	139.953 %
Concentration per Run 1	138.732 %	156.288 %	52.317 ppb	5,845.323 ppb	5,745.633 ppb	59.571 ppb	6,030.881 ppb	5,956.620 ppb	147.215 %
Concentration per Run 2	130.831 %	154.696 %	60.298 ppb	5,966.563 ppb	6,100.019 ppb	60.123 ppb	6,171.878 ppb	6,080.803 ppb	142.604 %
Concentration per Run 3	110.888 %	156.447 %	83.604 ppb	5,862.862 ppb	5,992.075 ppb	63.223 ppb	6,059.890 ppb	5,925.107 ppb	130.041 %
Recovery Percentage 1			109.010 %	98.193 %	99.098 %	101.620 %	101.459 %	99.792 %	
Concentration RSD	11.3 %	0.6 %	24.9 %	1.1 %	3.1 %	3.2 %	1.2 %	1.4 %	6.4 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	56.427 ppb	56.368 ppb	54.810 ppb	57.777 ppb	5,768.898 ppb	56.420 ppb	56.516 ppb	56.546 ppb	58.314 ppb
Concentration per Run 1	54.796 ppb	54.402 ppb	54.226 ppb	57.177 ppb	5,722.560 ppb	55.143 ppb	57.294 ppb	55.670 ppb	57.243 ppb
Concentration per Run 2	56.948 ppb	58.703 ppb	55.346 ppb	57.461 ppb	5,931.716 ppb	57.032 ppb	55.950 ppb	56.720 ppb	59.503 ppb
Concentration per Run 3	57.536 ppb	56.001 ppb	54.860 ppb	58.692 ppb	5,652.419 ppb	57.084 ppb	56.305 ppb	57.249 ppb	58.197 ppb
Recovery Percentage 1	94.045 %	93.947 %	91.351 %	96.295 %	96.148 %	94.033 %	94.194 %	94.244 %	97.191 %
Concentration RSD	2.6 %	3.9 %	1.0 %	1.4 %	2.5 %	2.0 %	1.2 %	1.4 %	1.9 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	134.790 %	58.022 ppb	59.788 ppb	61.753 ppb	58.043 ppb	127.223 %	58.182 ppb	59.180 ppb	138.607 %
Concentration per Run 1	135.494 %	56.563 ppb	59.895 ppb	61.102 ppb	56.277 ppb	128.536 %	57.977 ppb	59.302 ppb	139.229 %
Concentration per Run 2	133.541 %	59.481 ppb	59.268 ppb	62.385 ppb	58.342 ppb	126.899 %	58.096 ppb	59.417 ppb	138.574 %
Concentration per Run 3	135.333 %	58.021 ppb	60.201 ppb	61.771 ppb	59.511 ppb	126.233 %	58.473 ppb	58.821 ppb	138.019 %
Recovery Percentage 1		96.703 %	99.647 %	102.921 %	96.739 %		96.970 %	98.633 %	
Concentration RSD	0.8 %	2.5 %	0.8 %	1.0 %	2.8 %	0.9 %	0.4 %	0.5 %	0.4 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.004 ppb	58.565 ppb	59.623 ppb	133.499 %	137.696 %	55.437 ppb	58.011 ppb	58.613 ppb	128.672 %
Concentration per Run 1	57.061 ppb	58.505 ppb	58.892 ppb	134.680 %	138.882 %	54.703 ppb	56.853 ppb	57.400 ppb	130.431 %
Concentration per Run 2	58.609 ppb	58.907 ppb	61.282 ppb	132.650 %	136.419 %	55.812 ppb	58.092 ppb	59.540 ppb	128.104 %
Concentration per Run 3	58.341 ppb	58.282 ppb	58.696 ppb	133.167 %	137.786 %	55.797 ppb	59.089 ppb	58.900 ppb	127.483 %
Recovery Percentage 1	96.673 %	97.608 %	99.372 %			92.396 %	96.685 %	97.688 %	
Concentration RSD	1.4 %	0.5 %	2.4 %	0.8 %	0.9 %	1.1 %	1.9 %	1.9 %	1.2 %

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Analysis label: CCB User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	129.619 %	145.731 %	-0.001 ppb	94.338 ppb	21.633 ppb	2.105 ppb	4.996 ppb	50.414 ppb	129.154 %
Concentration per Run 1	132.898 %	142.282 %	-0.001 ppb	253.909 ppb	56.847 ppb	4.836 ppb	15.647 ppb	124.142 ppb	129.909 %
Concentration per Run 2	129.537 %	148.648 %	0.001 ppb	30.640 ppb	7.884 ppb	0.674 ppb	4.179 ppb	23.096 ppb	130.837 %
Concentration per Run 3	126.422 %	146.261 %	-0.004 ppb	-1.534 ppb	0.168 ppb	0.804 ppb	-4.838 ppb	4.003 ppb	126.716 %
Recovery Percentage 1			-0.288 %	94.338 %	30.904 %	21.047 %	4.996 %	50.414 %	
Concentration RSD	2.5 %	2.2 %	150.0 %	147.5 %	142.1 %	112.4 %	205.5 %	128.1 %	1.7 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.301 ppb	0.038 ppb	0.023 ppb	0.970 ppb	42.251 ppb	0.024 ppb	0.054 ppb	0.033 ppb	0.067 ppb
Concentration per Run 1	0.433 ppb	0.103 ppb	0.054 ppb	2.570 ppb	57.998 ppb	0.063 ppb	0.106 ppb	0.115 ppb	0.212 ppb
Concentration per Run 2	0.361 ppb	0.048 ppb	0.015 ppb	0.280 ppb	38.982 ppb	0.008 ppb	0.013 ppb	-0.009 ppb	-0.005 ppb
Concentration per Run 3	0.108 ppb	-0.036 ppb	-0.001 ppb	0.060 ppb	29.772 ppb	0.000 ppb	0.044 ppb	-0.007 ppb	-0.007 ppb
Recovery Percentage 1	60.179 %	0.769 %	2.281 %	96.973 %	84.501 %	4.705 %	2.723 %	3.309 %	0.666 %
Concentration RSD	56.7 %	182.2 %	124.5 %	143.3 %	34.1 %	146.1 %	86.4 %	214.4 %	189.0 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	124.394 %	0.043 ppb	0.255 ppb	0.089 ppb	0.729 ppb	117.873 %	0.010 ppb	0.002 ppb	126.301 %
Concentration per Run 1	122.761 %	0.059 ppb	0.352 ppb	0.211 ppb	0.563 ppb	117.800 %	0.017 ppb	0.007 ppb	125.742 %
Concentration per Run 2	126.698 %	0.027 ppb	0.203 ppb	0.047 ppb	0.682 ppb	118.625 %	0.008 ppb	0.000 ppb	128.296 %
Concentration per Run 3	123.724 %	0.044 ppb	0.210 ppb	0.009 ppb	0.943 ppb	117.195 %	0.005 ppb	0.000 ppb	124.866 %
Recovery Percentage 1		8.659 %	5.094 %	17.756 %	36.459 %		2.489 %	1.178 %	
Concentration RSD	1.7 %	37.6 %	33.0 %	120.7 %	26.6 %	0.6 %	60.3 %	173.2 %	1.4 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.844 ppb	0.047 ppb	0.067 ppb	121.742 %	125.374 %	1.008 ppb	0.393 ppb	0.078 ppb	120.851 %
Concentration per Run 1	0.870 ppb	0.048 ppb	0.109 ppb	120.598 %	124.517 %	0.899 ppb	0.416 ppb	0.150 ppb	120.617 %
Concentration per Run 2	0.816 ppb	0.034 ppb	0.050 ppb	122.822 %	125.875 %	0.991 ppb	0.394 ppb	0.041 ppb	123.224 %
Concentration per Run 3	0.845 ppb	0.059 ppb	0.043 ppb	121.806 %	125.730 %	1.132 ppb	0.369 ppb	0.043 ppb	118.712 %
Recovery Percentage 1	28.121 %	1.170 %	13.390 %			50.375 %	78.645 %	7.815 %	
Concentration RSD	3.2 %	26.6 %	54.1 %	0.9 %	0.6 %	11.6 %	5.9 %	79.9 %	1.9 %

Analysis index: 116
Analysis label: WG1427762-1 6020TL
Analysis started at: 10/29/2020 5:09:19 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	124.339 %	141.699 %	-0.002 ppb	1.358 ppb	4.032 ppb	2.713 ppb	-5.161 ppb	26.904 ppb	118.291 %
Concentration per Run 1	126.491 %	147.375 %	-0.003 ppb	0.425 ppb	3.206 ppb	2.376 ppb	-5.542 ppb	28.171 ppb	116.770 %
Concentration per Run 2	117.901 %	142.601 %	-0.006 ppb	0.570 ppb	3.862 ppb	3.423 ppb	-5.682 ppb	32.369 ppb	111.416 %
Concentration per Run 3	128.626 %	135.120 %	0.002 ppb	3.081 ppb	5.028 ppb	2.338 ppb	-4.257 ppb	20.173 ppb	126.686 %
Concentration RSD	4.6 %	4.4 %	175.6 %	109.9 %	22.9 %	22.7 %	15.2 %	23.0 %	6.5 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.153 ppb	-0.032 ppb	0.600 ppb	0.191 ppb	14.164 ppb	0.003 ppb	0.402 ppb	0.043 ppb	0.182 ppb
Concentration per Run 1	0.105 ppb	0.011 ppb	0.591 ppb	0.209 ppb	11.111 ppb	0.000 ppb	0.345 ppb	0.030 ppb	0.209 ppb
Concentration per Run 2	0.199 ppb	-0.061 ppb	0.622 ppb	0.211 ppb	15.042 ppb	0.004 ppb	0.594 ppb	0.040 ppb	0.134 ppb
Concentration per Run 3	0.156 ppb	-0.045 ppb	0.586 ppb	0.154 ppb	16.341 ppb	0.004 ppb	0.267 ppb	0.059 ppb	0.202 ppb
Concentration RSD	30.7 %	118.9 %	3.2 %	17.0 %	19.2 %	86.8 %	42.4 %	34.2 %	22.8 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	125.249 %	0.041 ppb	-0.014 ppb	0.018 ppb	0.235 ppb	120.718 %	0.001 ppb	0.001 ppb	130.700 %
Concentration per Run 1	128.215 %	-0.003 ppb	0.010 ppb	0.021 ppb	0.145 ppb	124.698 %	0.003 ppb	0.000 ppb	134.489 %
Concentration per Run 2	128.577 %	0.055 ppb	-0.043 ppb	0.016 ppb	0.271 ppb	122.705 %	0.001 ppb	0.000 ppb	132.968 %
Concentration per Run 3	118.955 %	0.071 ppb	-0.008 ppb	0.017 ppb	0.287 ppb	114.752 %	0.000 ppb	0.002 ppb	124.644 %
Concentration RSD	4.4 %	95.0 %	199.3 %	14.8 %	33.1 %	4.4 %	85.0 %	173.2 %	4.1 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.283 ppb	0.007 ppb	0.031 ppb	123.420 %	126.826 %	0.217 ppb	0.110 ppb	0.011 ppb	122.965 %
Concentration per Run 1	0.164 ppb	-0.011 ppb	0.024 ppb	126.689 %	130.127 %	0.135 ppb	0.093 ppb	0.008 ppb	127.383 %
Concentration per Run 2	0.322 ppb	0.014 ppb	0.032 ppb	126.061 %	129.718 %	0.235 ppb	0.118 ppb	0.009 ppb	124.769 %
Concentration per Run 3	0.363 ppb	0.017 ppb	0.035 ppb	117.511 %	120.633 %	0.282 ppb	0.119 ppb	0.014 ppb	116.741 %
Concentration RSD	37.1 %	229.3 %	18.4 %	4.2 %	4.2 %	34.5 %	13.5 %	30.4 %	4.5 %

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Analysis index: 117
Analysis label: WG1427762-2D5 6020TL
Analysis started at: 10/29/2020 5:14:25 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	127.851 %	145.465 %	10.441 ppb	2,133.452 ppb	2,168.031 ppb	444.139 ppb	2,223.857 ppb	2,079.224 ppb	131.756 %
Concentration per Run 1	131.352 %	146.261 %	9.676 ppb	2,108.718 ppb	2,125.159 ppb	428.410 ppb	2,218.188 ppb	1,933.853 ppb	136.446 %
Concentration per Run 2	130.534 %	144.510 %	10.168 ppb	2,182.660 ppb	2,219.456 ppb	460.027 ppb	2,257.559 ppb	2,245.397 ppb	134.516 %
Concentration per Run 3	121.668 %	145.624 %	11.480 ppb	2,108.977 ppb	2,159.477 ppb	443.979 ppb	2,195.824 ppb	2,058.422 ppb	124.305 %
Concentration RSD	4.2 %	0.6 %	8.9 %	2.0 %	2.2 %	3.6 %	1.4 %	7.5 %	5.0 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	172.339 ppb	99.045 ppb	39.869 ppb	102.512 ppb	211.463 ppb	100.735 ppb	98.610 ppb	51.794 ppb	111.556 ppb
Concentration per Run 1	167.425 ppb	95.252 ppb	39.074 ppb	99.830 ppb	217.965 ppb	98.542 ppb	98.490 ppb	52.170 ppb	110.191 ppb
Concentration per Run 2	173.357 ppb	104.234 ppb	41.122 ppb	106.584 ppb	222.028 ppb	103.891 ppb	100.436 ppb	52.756 ppb	114.831 ppb
Concentration per Run 3	176.233 ppb	97.648 ppb	39.411 ppb	101.123 ppb	194.395 ppb	99.770 ppb	96.905 ppb	50.457 ppb	109.647 ppb
Concentration RSD	2.6 %	4.7 %	2.8 %	3.5 %	7.1 %	2.8 %	1.8 %	2.3 %	2.6 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	128.113 %	26.741 ppb	27.838 ppb	217.785 ppb	201.619 ppb	121.743 %	10.756 ppb	11.311 ppb	133.579 %
Concentration per Run 1	129.461 %	25.853 ppb	27.946 ppb	213.793 ppb	194.293 ppb	125.324 %	10.620 ppb	11.139 ppb	135.501 %
Concentration per Run 2	127.321 %	27.887 ppb	28.605 ppb	223.897 ppb	210.149 ppb	118.959 %	11.066 ppb	11.531 ppb	131.689 %
Concentration per Run 3	127.555 %	26.483 ppb	26.963 ppb	215.666 ppb	200.415 ppb	120.946 %	10.583 ppb	11.263 ppb	133.548 %
Concentration RSD	0.9 %	3.9 %	3.0 %	2.5 %	4.0 %	2.7 %	2.5 %	1.8 %	1.4 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	197.306 ppb	100.867 ppb	422.314 ppb	127.158 %	130.981 %	0.167 ppb	25.459 ppb	114.230 ppb	124.681 %
Concentration per Run 1	194.459 ppb	98.693 ppb	415.345 ppb	129.448 %	133.457 %	0.101 ppb	25.093 ppb	112.254 ppb	127.040 %
Concentration per Run 2	202.630 ppb	103.663 ppb	434.916 ppb	123.754 %	128.122 %	0.179 ppb	26.060 ppb	117.799 ppb	122.323 %
Concentration per Run 3	194.831 ppb	100.243 ppb	416.681 ppb	128.271 %	131.365 %	0.221 ppb	25.222 ppb	112.637 ppb	124.680 %
Concentration RSD	2.3 %	2.5 %	2.6 %	2.4 %	2.1 %	36.3 %	2.1 %	2.7 %	1.9 %

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Analysis index: 118
Analysis label: WG1427762-3D10 6020TL
Analysis started at: 10/29/2020 5:19:31 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	128.908 %	150.028 %	6.364 ppb	4,048.292 ppb	6,165.863 ppb	216.697 ppb	1,320.722 ppb	58,945.164 ppb	133.151 %
Concentration per Run 1	135.359 %	151.672 %	5.991 ppb	3,984.926 ppb	6,091.283 ppb	210.058 ppb	1,322.774 ppb	57,050.474 ppb	139.327 %
Concentration per Run 2	130.710 %	149.285 %	6.236 ppb	4,097.983 ppb	6,249.517 ppb	221.103 ppb	1,318.451 ppb	60,103.155 ppb	135.042 %
Concentration per Run 3	120.655 %	149.126 %	6.864 ppb	4,061.967 ppb	6,156.788 ppb	218.931 ppb	1,320.943 ppb	59,681.863 ppb	125.084 %
Concentration RSD	5.8 %	1.0 %	7.1 %	1.4 %	1.3 %	2.7 %	0.2 %	2.8 %	5.5 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	170.337 ppb	50.338 ppb	19.151 ppb	55.917 ppb	120.036 ppb	49.359 ppb	48.190 ppb	24.692 ppb	53.097 ppb
Concentration per Run 1	166.952 ppb	49.224 ppb	18.646 ppb	54.614 ppb	115.423 ppb	48.212 ppb	47.175 ppb	24.354 ppb	52.605 ppb
Concentration per Run 2	172.765 ppb	52.029 ppb	19.314 ppb	56.358 ppb	125.879 ppb	50.116 ppb	49.499 ppb	25.254 ppb	53.830 ppb
Concentration per Run 3	171.295 ppb	49.761 ppb	19.491 ppb	56.779 ppb	118.807 ppb	49.750 ppb	47.895 ppb	24.467 ppb	52.857 ppb
Concentration RSD	1.8 %	3.0 %	2.3 %	2.1 %	4.4 %	2.0 %	2.5 %	2.0 %	1.2 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	133.468 %	13.433 ppb	13.622 ppb	1,480.517 ppb	101.403 ppb	124.753 %	5.238 ppb	5.579 ppb	137.682 %
Concentration per Run 1	136.994 %	12.951 ppb	13.961 ppb	1,457.155 ppb	102.239 ppb	126.698 %	5.227 ppb	5.546 ppb	138.422 %
Concentration per Run 2	131.725 %	14.126 ppb	13.082 ppb	1,501.362 ppb	101.956 ppb	123.977 %	5.214 ppb	5.578 ppb	137.515 %
Concentration per Run 3	131.686 %	13.222 ppb	13.822 ppb	1,483.035 ppb	100.016 ppb	123.584 %	5.273 ppb	5.613 ppb	137.110 %
Concentration RSD	2.3 %	4.6 %	3.5 %	1.5 %	1.2 %	1.4 %	0.6 %	0.6 %	0.5 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	101.347 ppb	48.749 ppb	210.834 ppb	132.246 %	134.588 %	0.069 ppb	12.618 ppb	55.561 ppb	126.956 %
Concentration per Run 1	101.333 ppb	49.018 ppb	210.794 ppb	136.124 %	137.534 %	0.041 ppb	12.583 ppb	54.785 ppb	129.293 %
Concentration per Run 2	102.648 ppb	48.852 ppb	212.424 ppb	130.964 %	133.311 %	0.071 ppb	12.598 ppb	55.818 ppb	127.430 %
Concentration per Run 3	100.059 ppb	48.377 ppb	209.286 ppb	129.649 %	132.920 %	0.095 ppb	12.674 ppb	56.082 ppb	124.146 %
Concentration RSD	1.3 %	0.7 %	0.7 %	2.6 %	1.9 %	39.5 %	0.4 %	1.2 %	2.1 %

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Analysis index: 119
Analysis label: WG1427762-4D10 6020TL
Analysis started at: 10/29/2020 5:24:37 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	135.128 %	152.786 %	5.794 ppb	4,014.414 ppb	6,169.364 ppb	215.891 ppb	1,345.644 ppb	58,805.811 ppb	136.293 %
Concentration per Run 1	126.757 %	151.036 %	6.200 ppb	3,985.175 ppb	6,071.697 ppb	212.392 ppb	1,320.472 ppb	58,751.325 ppb	127.170 %
Concentration per Run 2	144.065 %	153.423 %	5.400 ppb	3,919.435 ppb	5,994.557 ppb	208.799 ppb	1,329.147 ppb	56,333.673 ppb	143.016 %
Concentration per Run 3	134.563 %	153.901 %	5.782 ppb	4,138.631 ppb	6,441.839 ppb	226.482 ppb	1,387.313 ppb	61,332.436 ppb	138.693 %
Concentration RSD	6.4 %	1.0 %	6.9 %	2.8 %	3.9 %	4.3 %	2.7 %	4.3 %	6.0 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	173.948 ppb	50.293 ppb	19.861 ppb	57.147 ppb	120.084 ppb	50.732 ppb	47.677 ppb	25.510 ppb	55.030 ppb
Concentration per Run 1	169.444 ppb	49.310 ppb	19.482 ppb	55.510 ppb	112.960 ppb	50.302 ppb	45.348 ppb	25.516 ppb	54.462 ppb
Concentration per Run 2	168.625 ppb	47.585 ppb	19.507 ppb	54.736 ppb	119.219 ppb	48.651 ppb	47.528 ppb	24.639 ppb	52.740 ppb
Concentration per Run 3	183.775 ppb	53.984 ppb	20.594 ppb	61.195 ppb	128.074 ppb	53.244 ppb	50.156 ppb	26.374 ppb	57.887 ppb
Concentration RSD	4.9 %	6.6 %	3.2 %	6.2 %	6.3 %	4.6 %	5.0 %	3.4 %	4.8 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	127.766 %	13.584 ppb	13.967 ppb	1,544.081 ppb	108.473 ppb	119.179 %	5.462 ppb	5.848 ppb	132.315 %
Concentration per Run 1	129.019 %	12.918 ppb	13.325 ppb	1,477.812 ppb	102.138 ppb	123.772 %	5.227 ppb	5.526 ppb	134.637 %
Concentration per Run 2	131.024 %	12.875 ppb	13.988 ppb	1,486.730 ppb	103.574 ppb	121.848 %	5.160 ppb	5.709 ppb	136.608 %
Concentration per Run 3	123.255 %	14.959 ppb	14.587 ppb	1,667.700 ppb	119.707 ppb	111.916 %	5.997 ppb	6.308 ppb	125.699 %
Concentration RSD	3.2 %	8.8 %	4.5 %	6.9 %	9.0 %	5.3 %	8.5 %	7.0 %	4.4 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	105.378 ppb	50.183 ppb	221.843 ppb	127.263 %	130.198 %	0.041 ppb	13.123 ppb	58.680 ppb	122.981 %
Concentration per Run 1	100.675 ppb	47.074 ppb	214.134 ppb	129.750 %	133.603 %	-0.006 ppb	12.510 ppb	55.420 ppb	127.696 %
Concentration per Run 2	100.260 ppb	48.302 ppb	214.215 ppb	130.150 %	133.531 %	0.032 ppb	12.717 ppb	56.602 ppb	124.507 %
Concentration per Run 3	115.199 ppb	55.172 ppb	237.181 ppb	121.890 %	123.461 %	0.097 ppb	14.141 ppb	64.017 ppb	116.739 %
Concentration RSD	8.1 %	8.7 %	6.0 %	3.7 %	4.5 %	126.3 %	6.8 %	7.9 %	4.6 %

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Analysis index: 120
Analysis label: L2046818-06 6020TL
Analysis started at: 10/29/2020 5:29:43 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	136.730 %	161.010 %	0.481 ppb	154,580.707 ppb	50,621.019 ppb	30.552 ppb	5,870.991 ppb	73,424.573 ppb	154.912 %
Concentration per Run 1	140.299 %	163.927 %	0.485 ppb	148,494.057 ppb	48,643.239 ppb	30.622 ppb	5,702.667 ppb	71,969.840 ppb	156.370 %
Concentration per Run 2	135.974 %	154.856 %	0.484 ppb	160,633.629 ppb	52,506.098 ppb	30.159 ppb	6,031.713 ppb	75,008.693 ppb	154.584 %
Concentration per Run 3	133.916 %	164.246 %	0.474 ppb	154,614.434 ppb	50,713.719 ppb	30.874 ppb	5,878.592 ppb	73,295.184 ppb	153.780 %
Concentration RSD	2.4 %	3.3 %	1.2 %	3.9 %	3.8 %	1.2 %	2.8 %	2.1 %	0.9 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	106.468 ppb	0.584 ppb	0.678 ppb	3,898.133 ppb	26,017.029 ppb	0.126 ppb	13.095 ppb	0.252 ppb	5.707 ppb
Concentration per Run 1	102.404 ppb	0.656 ppb	0.707 ppb	3,854.764 ppb	25,686.793 ppb	0.144 ppb	13.413 ppb	0.204 ppb	5.779 ppb
Concentration per Run 2	111.273 ppb	0.564 ppb	0.652 ppb	3,904.382 ppb	26,055.222 ppb	0.091 ppb	12.876 ppb	0.326 ppb	5.614 ppb
Concentration per Run 3	105.727 ppb	0.534 ppb	0.675 ppb	3,935.254 ppb	26,309.073 ppb	0.142 ppb	12.996 ppb	0.227 ppb	5.729 ppb
Concentration RSD	4.2 %	10.9 %	4.1 %	1.0 %	1.2 %	24.1 %	2.2 %	25.7 %	1.5 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	132.695 %	10.619 ppb	0.598 ppb	873.821 ppb	2.235 ppb	117.224 %	0.002 ppb	0.005 ppb	133.464 %
Concentration per Run 1	131.447 %	10.250 ppb	0.431 ppb	872.424 ppb	2.077 ppb	115.815 %	0.002 ppb	0.009 ppb	132.760 %
Concentration per Run 2	132.661 %	10.332 ppb	0.583 ppb	877.590 ppb	2.179 ppb	116.626 %	0.002 ppb	0.000 ppb	133.019 %
Concentration per Run 3	133.977 %	11.275 ppb	0.781 ppb	871.448 ppb	2.450 ppb	119.232 %	0.002 ppb	0.004 ppb	134.614 %
Concentration RSD	1.0 %	5.4 %	29.4 %	0.4 %	8.6 %	1.5 %	2.1 %	100.6 %	0.8 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	3.981 ppb	3.526 ppb	711.958 ppb	130.584 %	131.878 %	0.114 ppb	0.204 ppb	0.282 ppb	112.330 %
Concentration per Run 1	3.701 ppb	3.397 ppb	709.566 ppb	129.921 %	131.605 %	0.073 ppb	0.164 ppb	0.278 ppb	111.989 %
Concentration per Run 2	3.911 ppb	3.476 ppb	715.240 ppb	129.049 %	131.076 %	0.116 ppb	0.197 ppb	0.282 ppb	111.930 %
Concentration per Run 3	4.332 ppb	3.704 ppb	711.067 ppb	132.781 %	132.952 %	0.153 ppb	0.251 ppb	0.284 ppb	113.071 %
Concentration RSD	8.1 %	4.5 %	0.4 %	1.5 %	0.7 %	34.8 %	21.4 %	1.1 %	0.6 %

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Analysis index: 121
Analysis label: L2046533-01 6020SL
Analysis started at: 10/29/2020 5:34:48 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	135.511 %	159.842 %	0.005 ppb	48,660.868 ppb	43,357.595 ppb	7.935 ppb	4,076.632 ppb	182,628.132 ppb	145.345 %
Concentration per Run 1	141.690 %	167.429 %	0.007 ppb	47,006.617 ppb	41,860.226 ppb	6.935 ppb	3,939.997 ppb	178,085.128 ppb	150.194 %
Concentration per Run 2	135.109 %	153.901 %	0.003 ppb	49,785.302 ppb	44,512.697 ppb	8.468 ppb	4,137.638 ppb	185,356.993 ppb	145.379 %
Concentration per Run 3	129.733 %	158.198 %	0.005 ppb	49,190.686 ppb	43,699.862 ppb	8.403 ppb	4,152.262 ppb	184,442.276 ppb	140.461 %
Concentration RSD	4.4 %	4.3 %	42.9 %	3.0 %	3.1 %	10.9 %	2.9 %	2.2 %	3.3 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	260.654 ppb	0.391 ppb	1.076 ppb	2,646.002 ppb	25,153.790 ppb	0.694 ppb	1.336 ppb	0.189 ppb	3.892 ppb
Concentration per Run 1	252.142 ppb	0.303 ppb	1.004 ppb	2,596.897 ppb	24,912.963 ppb	0.640 ppb	1.460 ppb	0.188 ppb	3.862 ppb
Concentration per Run 2	264.002 ppb	0.454 ppb	1.126 ppb	2,653.852 ppb	25,477.954 ppb	0.762 ppb	1.252 ppb	0.208 ppb	3.776 ppb
Concentration per Run 3	265.817 ppb	0.417 ppb	1.099 ppb	2,687.257 ppb	25,070.452 ppb	0.682 ppb	1.296 ppb	0.171 ppb	4.038 ppb
Concentration RSD	2.8 %	20.1 %	6.0 %	1.7 %	1.2 %	9.0 %	8.2 %	9.7 %	3.4 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	129.781 %	55.281 ppb	0.196 ppb	1,200.123 ppb	5.062 ppb	118.479 %	0.002 ppb	0.005 ppb	133.844 %
Concentration per Run 1	129.193 %	54.998 ppb	0.224 ppb	1,196.235 ppb	4.904 ppb	119.139 %	0.000 ppb	0.004 ppb	133.958 %
Concentration per Run 2	130.779 %	56.027 ppb	0.299 ppb	1,193.960 ppb	5.040 ppb	118.800 %	0.004 ppb	0.002 ppb	134.014 %
Concentration per Run 3	129.372 %	54.819 ppb	0.064 ppb	1,210.174 ppb	5.243 ppb	117.497 %	0.002 ppb	0.007 ppb	133.560 %
Concentration RSD	0.7 %	1.2 %	61.5 %	0.7 %	3.4 %	0.7 %	84.6 %	50.3 %	0.2 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.627 ppb	1.210 ppb	284.825 ppb	126.764 %	128.959 %	0.007 ppb	0.067 ppb	0.037 ppb	114.668 %
Concentration per Run 1	1.378 ppb	1.123 ppb	282.337 ppb	126.473 %	128.468 %	-0.019 ppb	0.049 ppb	0.035 ppb	114.873 %
Concentration per Run 2	1.718 ppb	1.212 ppb	285.795 ppb	127.111 %	129.787 %	-0.008 ppb	0.071 ppb	0.038 ppb	115.282 %
Concentration per Run 3	1.786 ppb	1.296 ppb	286.343 ppb	126.707 %	128.621 %	0.049 ppb	0.080 ppb	0.039 ppb	113.849 %
Concentration RSD	13.5 %	7.1 %	0.8 %	0.3 %	0.6 %	486.7 %	23.8 %	5.5 %	0.6 %

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Analysis index: 122
Analysis label: L2046533-02 6020SL
Analysis started at: 10/29/2020 5:39:55 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	134.431 %	151.407 %	0.006 ppb	48,687.271 ppb	43,902.685 ppb	5.475 ppb	4,042.742 ppb	184,747.005 ppb	143.421 %
Concentration per Run 1	139.178 %	155.015 %	0.006 ppb	47,947.287 ppb	42,901.044 ppb	5.053 ppb	4,028.864 ppb	180,946.432 ppb	143.819 %
Concentration per Run 2	133.261 %	145.306 %	0.013 ppb	50,118.938 ppb	45,520.701 ppb	6.161 ppb	4,099.598 ppb	189,404.635 ppb	143.904 %
Concentration per Run 3	130.853 %	153.901 %	0.000 ppb	47,995.587 ppb	43,286.309 ppb	5.213 ppb	3,999.764 ppb	183,889.949 ppb	142.540 %
Concentration RSD	3.2 %	3.5 %	105.9 %	2.5 %	3.2 %	10.9 %	1.3 %	2.3 %	0.5 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	261.677 ppb	0.356 ppb	0.716 ppb	2,638.768 ppb	25,311.543 ppb	0.650 ppb	1.404 ppb	0.135 ppb	2.425 ppb
Concentration per Run 1	259.841 ppb	0.349 ppb	0.798 ppb	2,594.117 ppb	25,164.790 ppb	0.630 ppb	1.521 ppb	0.101 ppb	2.681 ppb
Concentration per Run 2	264.360 ppb	0.390 ppb	0.638 ppb	2,695.950 ppb	25,605.456 ppb	0.614 ppb	1.444 ppb	0.237 ppb	2.424 ppb
Concentration per Run 3	260.829 ppb	0.328 ppb	0.712 ppb	2,626.236 ppb	25,164.383 ppb	0.705 ppb	1.248 ppb	0.067 ppb	2.170 ppb
Concentration RSD	0.9 %	9.0 %	11.2 %	2.0 %	1.0 %	7.5 %	10.0 %	66.7 %	10.5 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	126.896 %	54.830 ppb	0.194 ppb	1,199.915 ppb	4.855 ppb	115.879 %	0.000 ppb	0.003 ppb	130.599 %
Concentration per Run 1	124.216 %	56.102 ppb	0.154 ppb	1,194.048 ppb	5.023 ppb	115.613 %	0.000 ppb	0.002 ppb	131.742 %
Concentration per Run 2	127.133 %	55.000 ppb	0.338 ppb	1,200.778 ppb	4.736 ppb	116.651 %	-0.001 ppb	0.005 ppb	131.884 %
Concentration per Run 3	129.339 %	53.390 ppb	0.091 ppb	1,204.919 ppb	4.804 ppb	115.371 %	0.000 ppb	0.002 ppb	128.172 %
Concentration RSD	2.0 %	2.5 %	66.1 %	0.5 %	3.1 %	0.6 %	872.7 %	42.4 %	1.6 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.980 ppb	0.707 ppb	284.054 ppb	125.444 %	127.469 %	-0.011 ppb	0.042 ppb	0.019 ppb	114.289 %
Concentration per Run 1	0.800 ppb	0.670 ppb	280.720 ppb	125.612 %	127.384 %	-0.033 ppb	0.035 ppb	0.018 ppb	114.537 %
Concentration per Run 2	0.988 ppb	0.741 ppb	282.495 ppb	125.688 %	128.015 %	-0.004 ppb	0.039 ppb	0.019 ppb	114.223 %
Concentration per Run 3	1.153 ppb	0.711 ppb	288.948 ppb	125.032 %	127.008 %	0.004 ppb	0.050 ppb	0.021 ppb	114.106 %
Concentration RSD	18.0 %	5.0 %	1.5 %	0.3 %	0.4 %	180.5 %	19.1 %	9.1 %	0.2 %

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10/29/2020 9:29:56 PM

Analysis index: 123
Analysis label: L2046533-04 6020SL
Analysis started at: 10/29/2020 5:45:01 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	133.415 %	156.182 %	0.006 ppb	25,420.339 ppb	76,729.999 ppb	5.103 ppb	14,503.379 ppb	446,819.946 ppb	134.610 %
Concentration per Run 1	134.795 %	155.810 %	0.015 ppb	25,537.178 ppb	77,642.000 ppb	5.256 ppb	14,258.096 ppb	440,607.741 ppb	133.616 %
Concentration per Run 2	131.935 %	151.036 %	0.000 ppb	26,295.508 ppb	79,075.785 ppb	5.269 ppb	14,980.201 ppb	460,802.053 ppb	134.444 %
Concentration per Run 3	133.514 %	161.699 %	0.004 ppb	24,428.330 ppb	73,472.213 ppb	4.784 ppb	14,271.840 ppb	439,050.044 ppb	135.770 %
Concentration RSD	1.1 %	3.4 %	127.3 %	3.7 %	3.8 %	5.4 %	2.8 %	2.7 %	0.8 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	629.728 ppb	0.869 ppb	0.774 ppb	9,334.551 ppb	79.821 ppb	6.094 ppb	8.533 ppb	2.074 ppb	4.065 ppb
Concentration per Run 1	615.818 ppb	0.770 ppb	0.774 ppb	9,188.655 ppb	75.461 ppb	5.899 ppb	8.274 ppb	2.008 ppb	4.077 ppb
Concentration per Run 2	650.787 ppb	0.765 ppb	0.795 ppb	9,515.348 ppb	78.693 ppb	6.227 ppb	8.762 ppb	2.194 ppb	3.918 ppb
Concentration per Run 3	622.578 ppb	1.072 ppb	0.752 ppb	9,299.649 ppb	85.311 ppb	6.156 ppb	8.563 ppb	2.021 ppb	4.201 ppb
Concentration RSD	2.9 %	20.2 %	2.8 %	1.8 %	6.3 %	2.8 %	2.9 %	5.0 %	3.5 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	129.339 %	2.166 ppb	0.573 ppb	2,036.082 ppb	4.017 ppb	114.708 %	0.002 ppb	0.098 ppb	132.661 %
Concentration per Run 1	132.821 %	2.175 ppb	0.609 ppb	1,998.376 ppb	3.741 ppb	115.377 %	0.003 ppb	0.111 ppb	133.736 %
Concentration per Run 2	127.753 %	2.027 ppb	0.554 ppb	2,053.523 ppb	4.236 ppb	114.799 %	0.004 ppb	0.073 ppb	133.283 %
Concentration per Run 3	127.442 %	2.296 ppb	0.556 ppb	2,056.348 ppb	4.075 ppb	113.947 %	0.000 ppb	0.109 ppb	130.965 %
Concentration RSD	2.3 %	6.2 %	5.5 %	1.6 %	6.3 %	0.6 %	75.7 %	21.9 %	1.1 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.905 ppb	0.650 ppb	200.764 ppb	121.514 %	123.347 %	-0.008 ppb	0.075 ppb	0.307 ppb	109.149 %
Concentration per Run 1	0.821 ppb	0.621 ppb	197.742 ppb	123.070 %	125.041 %	-0.028 ppb	0.069 ppb	0.312 ppb	109.820 %
Concentration per Run 2	0.846 ppb	0.678 ppb	201.188 ppb	120.841 %	121.666 %	-0.010 ppb	0.071 ppb	0.299 ppb	108.402 %
Concentration per Run 3	1.048 ppb	0.650 ppb	203.363 ppb	120.632 %	123.335 %	0.013 ppb	0.084 ppb	0.309 ppb	109.226 %
Concentration RSD	13.7 %	4.4 %	1.4 %	1.1 %	1.4 %	246.1 %	10.8 %	2.2 %	0.7 %

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Analysis index: 124
Analysis label: L2046533-05 6020SL
Analysis started at: 10/29/2020 5:50:08 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	149.343 %	155.704 %	0.001 ppb	36,667.115 ppb	40,866.774 ppb	7.825 ppb	6,845.861 ppb	184,189.563 ppb	154.044 %
Concentration per Run 1	156.375 %	158.357 %	0.005 ppb	35,990.076 ppb	40,184.748 ppb	8.594 ppb	6,728.408 ppb	181,235.667 ppb	159.047 %
Concentration per Run 2	149.707 %	154.856 %	-0.003 ppb	37,283.871 ppb	41,036.292 ppb	7.510 ppb	7,002.711 ppb	185,913.161 ppb	153.270 %
Concentration per Run 3	141.947 %	153.901 %	0.002 ppb	36,727.398 ppb	41,379.282 ppb	7.370 ppb	6,806.466 ppb	185,419.860 ppb	149.816 %
Concentration RSD	4.8 %	1.5 %	263.4 %	1.8 %	1.5 %	8.6 %	2.1 %	1.4 %	3.0 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	262.763 ppb	0.373 ppb	0.829 ppb	2,557.753 ppb	14,047.130 ppb	0.385 ppb	0.632 ppb	0.123 ppb	1.665 ppb
Concentration per Run 1	262.261 ppb	0.383 ppb	0.773 ppb	2,526.977 ppb	13,893.642 ppb	0.388 ppb	0.671 ppb	0.118 ppb	1.937 ppb
Concentration per Run 2	262.232 ppb	0.329 ppb	0.826 ppb	2,552.038 ppb	14,037.681 ppb	0.412 ppb	0.550 ppb	0.119 ppb	1.543 ppb
Concentration per Run 3	263.797 ppb	0.408 ppb	0.890 ppb	2,594.244 ppb	14,210.066 ppb	0.354 ppb	0.676 ppb	0.133 ppb	1.514 ppb
Concentration RSD	0.3 %	10.8 %	7.0 %	1.3 %	1.1 %	7.5 %	11.3 %	6.7 %	14.2 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	132.600 %	4.515 ppb	0.121 ppb	1,246.849 ppb	0.985 ppb	120.694 %	-0.001 ppb	0.003 ppb	135.409 %
Concentration per Run 1	133.733 %	4.630 ppb	0.032 ppb	1,245.803 ppb	0.824 ppb	121.597 %	-0.001 ppb	0.000 ppb	137.237 %
Concentration per Run 2	133.813 %	4.482 ppb	0.109 ppb	1,238.668 ppb	1.144 ppb	121.143 %	0.001 ppb	0.002 ppb	135.441 %
Concentration per Run 3	130.254 %	4.433 ppb	0.221 ppb	1,256.076 ppb	0.987 ppb	119.341 %	-0.001 ppb	0.007 ppb	133.548 %
Concentration RSD	1.5 %	2.3 %	78.9 %	0.7 %	16.2 %	1.0 %	258.5 %	115.1 %	1.4 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.012 ppb	0.409 ppb	140.564 ppb	129.516 %	131.085 %	-0.004 ppb	0.027 ppb	0.026 ppb	117.677 %
Concentration per Run 1	0.885 ppb	0.390 ppb	140.240 ppb	131.880 %	133.126 %	-0.023 ppb	0.023 ppb	0.026 ppb	119.938 %
Concentration per Run 2	0.926 ppb	0.428 ppb	141.732 ppb	128.827 %	130.663 %	0.001 ppb	0.031 ppb	0.025 ppb	117.556 %
Concentration per Run 3	1.226 ppb	0.409 ppb	139.720 ppb	127.841 %	129.467 %	0.009 ppb	0.025 ppb	0.027 ppb	115.537 %
Concentration RSD	18.4 %	4.6 %	0.7 %	1.6 %	1.4 %	402.7 %	15.9 %	2.9 %	1.9 %

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Analysis index: 125
Analysis label: L2046533-06 6020SL
Analysis started at: 10/29/2020 5:55:14 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	129.238 %	152.946 %	0.013 ppb	14,686.584 ppb	28,662.483 ppb	5.931 ppb	10,312.546 ppb	213,664.047 ppb	139.227 %
Concentration per Run 1	129.720 %	155.970 %	0.019 ppb	14,582.052 ppb	28,462.694 ppb	5.312 ppb	10,172.372 ppb	212,441.174 ppb	137.304 %
Concentration per Run 2	112.300 %	158.834 %	0.015 ppb	14,300.761 ppb	27,754.691 ppb	5.523 ppb	10,161.604 ppb	210,530.201 ppb	127.781 %
Concentration per Run 3	145.695 %	144.033 %	0.006 ppb	15,176.938 ppb	29,770.064 ppb	6.958 ppb	10,603.663 ppb	218,020.766 ppb	152.595 %
Concentration RSD	12.9 %	5.1 %	49.5 %	3.0 %	3.6 %	15.1 %	2.4 %	1.8 %	9.0 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	306.878 ppb	0.563 ppb	1.163 ppb	1,782.108 ppb	34,755.472 ppb	0.262 ppb	0.941 ppb	0.359 ppb	1.608 ppb
Concentration per Run 1	299.954 ppb	0.622 ppb	1.045 ppb	1,754.039 ppb	34,183.587 ppb	0.284 ppb	0.849 ppb	0.412 ppb	1.563 ppb
Concentration per Run 2	305.690 ppb	0.551 ppb	1.189 ppb	1,767.750 ppb	34,672.665 ppb	0.248 ppb	1.017 ppb	0.319 ppb	1.749 ppb
Concentration per Run 3	314.989 ppb	0.516 ppb	1.255 ppb	1,824.536 ppb	35,410.165 ppb	0.254 ppb	0.957 ppb	0.345 ppb	1.513 ppb
Concentration RSD	2.5 %	9.7 %	9.2 %	2.1 %	1.8 %	7.4 %	9.0 %	13.4 %	7.7 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	131.170 %	2.067 ppb	0.114 ppb	1,077.440 ppb	1.576 ppb	119.684 %	0.003 ppb	0.010 ppb	136.766 %
Concentration per Run 1	131.815 %	2.019 ppb	0.034 ppb	1,075.606 ppb	1.486 ppb	120.109 %	0.005 ppb	0.018 ppb	137.423 %
Concentration per Run 2	131.016 %	1.996 ppb	0.035 ppb	1,081.993 ppb	1.492 ppb	119.820 %	0.002 ppb	0.009 ppb	135.769 %
Concentration per Run 3	130.680 %	2.186 ppb	0.273 ppb	1,074.722 ppb	1.751 ppb	119.121 %	0.001 ppb	0.004 ppb	137.107 %
Concentration RSD	0.4 %	5.0 %	121.0 %	0.4 %	9.6 %	0.4 %	68.8 %	65.1 %	0.6 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.506 ppb	0.358 ppb	229.832 ppb	128.353 %	130.593 %	0.265 ppb	0.019 ppb	0.335 ppb	119.434 %
Concentration per Run 1	0.477 ppb	0.306 ppb	228.172 ppb	129.435 %	132.171 %	0.247 ppb	0.011 ppb	0.336 ppb	121.682 %
Concentration per Run 2	0.527 ppb	0.352 ppb	231.349 ppb	127.938 %	130.460 %	0.271 ppb	0.020 ppb	0.343 ppb	118.584 %
Concentration per Run 3	0.514 ppb	0.416 ppb	229.974 ppb	127.685 %	129.146 %	0.278 ppb	0.027 ppb	0.325 ppb	118.037 %
Concentration RSD	5.1 %	15.4 %	0.7 %	0.7 %	1.2 %	6.1 %	42.2 %	2.7 %	1.6 %

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Analysis label: CCV User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	131.511 %	151.566 %	57.727 ppb	5,826.667 ppb	5,889.317 ppb	62.300 ppb	6,044.122 ppb	5,929.851 ppb	140.353 %
Concentration per Run 1	133.036 %	144.351 %	56.895 ppb	5,995.543 ppb	6,057.668 ppb	63.844 ppb	6,180.954 ppb	6,135.234 ppb	139.091 %
Concentration per Run 2	131.920 %	161.540 %	57.914 ppb	5,513.036 ppb	5,550.704 ppb	59.899 ppb	5,776.764 ppb	5,546.147 ppb	142.019 %
Concentration per Run 3	129.578 %	148.808 %	58.373 ppb	5,971.423 ppb	6,059.577 ppb	63.157 ppb	6,174.647 ppb	6,108.170 ppb	139.948 %
Recovery Percentage 1			96.212 %	97.111 %	98.155 %	103.833 %	100.735 %	98.831 %	
Concentration RSD	1.3 %	5.9 %	1.3 %	4.7 %	5.0 %	3.4 %	3.8 %	5.6 %	1.1 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	57.456 ppb	56.168 ppb	55.505 ppb	59.315 ppb	5,965.339 ppb	56.829 ppb	57.314 ppb	57.493 ppb	59.879 ppb
Concentration per Run 1	57.687 ppb	55.205 ppb	56.376 ppb	59.451 ppb	5,950.395 ppb	57.765 ppb	56.872 ppb	56.840 ppb	59.741 ppb
Concentration per Run 2	52.950 ppb	54.902 ppb	52.931 ppb	57.178 ppb	5,749.621 ppb	53.906 ppb	54.416 ppb	55.380 ppb	57.897 ppb
Concentration per Run 3	61.731 ppb	58.397 ppb	57.209 ppb	61.317 ppb	6,196.000 ppb	58.815 ppb	60.653 ppb	60.257 ppb	62.000 ppb
Recovery Percentage 1	95.760 %	93.613 %	92.508 %	98.858 %	99.422 %	94.715 %	95.523 %	95.821 %	99.798 %
Concentration RSD	7.6 %	3.4 %	4.1 %	3.5 %	3.7 %	4.5 %	5.5 %	4.4 %	3.4 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	130.820 %	60.693 ppb	61.583 ppb	62.841 ppb	58.720 ppb	124.148 %	59.125 ppb	59.922 ppb	135.888 %
Concentration per Run 1	131.253 %	60.293 ppb	61.345 ppb	62.231 ppb	58.254 ppb	126.003 %	58.278 ppb	58.915 ppb	138.826 %
Concentration per Run 2	135.419 %	58.272 ppb	58.876 ppb	61.404 ppb	57.060 ppb	124.067 %	58.901 ppb	59.695 ppb	136.125 %
Concentration per Run 3	125.786 %	63.515 ppb	64.528 ppb	64.889 ppb	60.846 ppb	122.376 %	60.195 ppb	61.155 ppb	132.714 %
Recovery Percentage 1		101.155 %	102.638 %	104.736 %	97.866 %		98.541 %	99.870 %	
Concentration RSD	3.7 %	4.4 %	4.6 %	2.9 %	3.3 %	1.5 %	1.7 %	1.9 %	2.3 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	60.277 ppb	59.687 ppb	60.606 ppb	133.998 %	137.102 %	57.199 ppb	59.174 ppb	60.299 ppb	127.869 %
Concentration per Run 1	58.635 ppb	58.272 ppb	58.588 ppb	136.121 %	139.336 %	56.155 ppb	58.686 ppb	59.296 ppb	129.547 %
Concentration per Run 2	59.507 ppb	59.047 ppb	60.923 ppb	134.365 %	138.531 %	56.436 ppb	57.968 ppb	59.572 ppb	129.523 %
Concentration per Run 3	62.690 ppb	61.742 ppb	62.307 ppb	131.508 %	133.441 %	59.007 ppb	60.869 ppb	62.031 ppb	124.538 %
Recovery Percentage 1	100.462 %	99.478 %	101.010 %			95.332 %	98.623 %	100.499 %	
Concentration RSD	3.5 %	3.1 %	3.1 %	1.7 %	2.3 %	2.7 %	2.6 %	2.5 %	2.3 %

Analysis index: 127 Analysis started at: 10/29/2020 6:05:29 PM
Analysis label: CCB User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	120.541 %	137.985 %	0.000 ppb	-3.112 ppb	0.491 ppb	0.206 ppb	-0.338 ppb	7.822 ppb	120.673 %
Concentration per Run 1	126.014 %	134.802 %	0.003 ppb	-3.317 ppb	0.212 ppb	0.502 ppb	-2.387 ppb	9.772 ppb	124.773 %
Concentration per Run 2	119.386 %	141.009 %	0.000 ppb	-3.304 ppb	0.768 ppb	-0.081 ppb	0.971 ppb	4.219 ppb	119.458 %
Concentration per Run 3	116.223 %	138.144 %	-0.001 ppb	-2.716 ppb	0.492 ppb	0.198 ppb	0.401 ppb	9.476 ppb	117.789 %
Recovery Percentage 1			0.072 %	-3.112 %	0.701 %	2.060 %	-0.338 %	7.822 %	
Concentration RSD	4.1 %	2.3 %	624.5 %	11.0 %	56.6 %	141.6 %	531.6 %	39.9 %	3.0 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.270 ppb	-0.059 ppb	0.009 ppb	0.109 ppb	38.663 ppb	0.003 ppb	0.022 ppb	0.016 ppb	-0.007 ppb
Concentration per Run 1	0.179 ppb	-0.031 ppb	-0.003 ppb	0.156 ppb	38.921 ppb	0.004 ppb	0.003 ppb	0.039 ppb	0.043 ppb
Concentration per Run 2	0.382 ppb	-0.047 ppb	0.013 ppb	0.077 ppb	34.025 ppb	0.000 ppb	0.047 ppb	0.015 ppb	-0.049 ppb
Concentration per Run 3	0.250 ppb	-0.098 ppb	0.018 ppb	0.092 ppb	43.043 ppb	0.004 ppb	0.017 ppb	-0.005 ppb	-0.016 ppb
Recovery Percentage 1	54.029 %	-1.173 %	0.928 %	10.858 %	77.327 %	0.544 %	1.100 %	1.630 %	-0.073 %
Concentration RSD	38.1 %	59.1 %	115.9 %	38.8 %	11.7 %	86.6 %	102.5 %	137.4 %	632.9 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	119.372 %	0.080 ppb	0.125 ppb	0.008 ppb	0.842 ppb	115.875 %	0.007 ppb	0.002 ppb	126.023 %
Concentration per Run 1	116.636 %	0.049 ppb	0.082 ppb	0.011 ppb	0.695 ppb	115.621 %	0.011 ppb	0.002 ppb	125.401 %
Concentration per Run 2	120.807 %	0.107 ppb	0.104 ppb	0.005 ppb	0.963 ppb	116.580 %	0.005 ppb	0.000 ppb	127.142 %
Concentration per Run 3	120.672 %	0.084 ppb	0.189 ppb	0.007 ppb	0.867 ppb	115.425 %	0.004 ppb	0.002 ppb	125.525 %
Recovery Percentage 1		16.026 %	2.499 %	1.519 %	42.083 %		1.690 %	0.791 %	
Concentration RSD	2.0 %	36.6 %	45.6 %	39.9 %	16.1 %	0.5 %	59.1 %	86.6 %	0.8 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.833 ppb	0.194 ppb	0.034 ppb	122.331 %	126.574 %	0.931 ppb	0.387 ppb	0.038 ppb	121.474 %
Concentration per Run 1	0.701 ppb	0.185 ppb	0.051 ppb	121.023 %	124.788 %	0.821 ppb	0.390 ppb	0.040 ppb	119.616 %
Concentration per Run 2	0.847 ppb	0.204 ppb	0.009 ppb	124.042 %	128.569 %	0.949 ppb	0.410 ppb	0.036 ppb	122.246 %
Concentration per Run 3	0.953 ppb	0.192 ppb	0.042 ppb	121.929 %	126.366 %	1.022 ppb	0.363 ppb	0.037 ppb	122.558 %
Recovery Percentage 1	27.781 %	4.844 %	6.838 %			46.525 %	77.487 %	3.774 %	
Concentration RSD	15.1 %	4.9 %	64.2 %	1.3 %	1.5 %	10.9 %	6.0 %	5.9 %	1.3 %

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Analysis index: 128
Analysis label: WG1427762-5D10 6020TL
Analysis started at: 10/29/2020 6:10:39 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	117.527 %	144.192 %	55.290 ppb	7,678.337 ppb	9,718.434 ppb	48.917 ppb	5,149.291 ppb	59,550.995 ppb	124.141 %
Concentration per Run 1	126.092 %	147.375 %	50.873 ppb	7,501.221 ppb	9,373.704 ppb	45.613 ppb	5,055.550 ppb	57,740.016 ppb	131.252 %
Concentration per Run 2	117.674 %	142.123 %	54.116 ppb	7,734.343 ppb	9,802.498 ppb	47.581 ppb	5,178.942 ppb	59,842.288 ppb	124.090 %
Concentration per Run 3	108.813 %	143.078 %	60.881 ppb	7,799.449 ppb	9,979.099 ppb	53.557 ppb	5,213.381 ppb	61,070.682 ppb	117.081 %
Concentration RSD	7.4 %	1.9 %	9.2 %	2.0 %	3.2 %	8.5 %	1.6 %	2.8 %	5.7 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	127.962 ppb	45.049 ppb	43.986 ppb	51.636 ppb	4,638.457 ppb	44.498 ppb	45.958 ppb	44.955 ppb	45.113 ppb
Concentration per Run 1	121.605 ppb	44.123 ppb	42.720 ppb	51.570 ppb	4,594.060 ppb	43.970 ppb	45.885 ppb	44.762 ppb	44.088 ppb
Concentration per Run 2	131.222 ppb	44.795 ppb	44.626 ppb	51.481 ppb	4,580.651 ppb	44.368 ppb	44.530 ppb	44.849 ppb	45.480 ppb
Concentration per Run 3	131.060 ppb	46.230 ppb	44.611 ppb	51.858 ppb	4,740.661 ppb	45.157 ppb	47.458 ppb	45.253 ppb	45.770 ppb
Concentration RSD	4.3 %	2.4 %	2.5 %	0.4 %	1.9 %	1.4 %	3.2 %	0.6 %	2.0 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	126.774 %	48.416 ppb	50.309 ppb	1,436.897 ppb	46.719 ppb	119.945 %	1.295 ppb	46.860 ppb	134.111 %
Concentration per Run 1	125.956 %	48.128 ppb	49.184 ppb	1,399.504 ppb	44.704 ppb	122.758 %	1.224 ppb	45.698 ppb	135.744 %
Concentration per Run 2	127.712 %	47.639 ppb	49.525 ppb	1,436.095 ppb	46.024 ppb	119.477 %	1.320 ppb	46.770 ppb	134.050 %
Concentration per Run 3	126.653 %	49.480 ppb	52.219 ppb	1,475.092 ppb	49.430 ppb	117.599 %	1.340 ppb	48.114 ppb	132.538 %
Concentration RSD	0.7 %	2.0 %	3.3 %	2.6 %	5.2 %	2.2 %	4.8 %	2.6 %	1.2 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	46.452 ppb	49.848 ppb	48.508 ppb	133.787 %	136.736 %	39.278 ppb	46.795 ppb	47.801 ppb	126.962 %
Concentration per Run 1	44.977 ppb	48.147 ppb	46.422 ppb	136.960 %	139.592 %	38.109 ppb	44.762 ppb	46.065 ppb	130.457 %
Concentration per Run 2	46.323 ppb	50.119 ppb	48.078 ppb	132.686 %	135.362 %	39.248 ppb	46.958 ppb	47.814 ppb	126.532 %
Concentration per Run 3	48.056 ppb	51.279 ppb	51.023 ppb	131.716 %	135.255 %	40.478 ppb	48.663 ppb	49.526 ppb	123.896 %
Concentration RSD	3.3 %	3.2 %	4.8 %	2.1 %	1.8 %	3.0 %	4.2 %	3.6 %	2.6 %

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Analysis index: 129
Analysis label: WG1427762-7D10 6020TL
Analysis started at: 10/29/2020 6:15:45 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	133.056 %	147.906 %	6.028 ppb	2,161.144 ppb	5,501.408 ppb	233.344 ppb	1,228.430 ppb	54,758.330 ppb	136.956 %
Concentration per Run 1	135.645 %	153.741 %	5.781 ppb	2,148.147 ppb	5,581.894 ppb	238.030 ppb	1,221.471 ppb	56,908.702 ppb	137.989 %
Concentration per Run 2	133.861 %	146.261 %	6.087 ppb	2,132.869 ppb	5,373.280 ppb	226.713 ppb	1,222.834 ppb	52,488.756 ppb	138.044 %
Concentration per Run 3	129.662 %	143.715 %	6.215 ppb	2,202.418 ppb	5,549.051 ppb	235.288 ppb	1,240.985 ppb	54,877.532 ppb	134.836 %
Concentration RSD	2.3 %	3.5 %	3.7 %	1.7 %	2.0 %	2.5 %	0.9 %	4.0 %	1.3 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	167.523 ppb	48.842 ppb	19.666 ppb	57.245 ppb	149.702 ppb	48.665 ppb	47.742 ppb	24.457 ppb	52.953 ppb
Concentration per Run 1	177.325 ppb	51.269 ppb	20.590 ppb	59.114 ppb	155.677 ppb	52.075 ppb	50.713 ppb	26.304 ppb	56.536 ppb
Concentration per Run 2	158.606 ppb	46.903 ppb	18.240 ppb	54.372 ppb	155.182 ppb	46.181 ppb	44.720 ppb	23.219 ppb	49.297 ppb
Concentration per Run 3	166.637 ppb	48.355 ppb	20.169 ppb	58.250 ppb	138.248 ppb	47.738 ppb	47.794 ppb	23.849 ppb	53.026 ppb
Concentration RSD	5.6 %	4.6 %	6.4 %	4.4 %	6.6 %	6.3 %	6.3 %	6.7 %	6.8 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	132.178 %	13.408 ppb	13.666 ppb	1,508.353 ppb	100.672 ppb	123.439 %	5.223 ppb	5.521 ppb	136.613 %
Concentration per Run 1	127.729 %	14.633 ppb	14.160 ppb	1,613.117 ppb	107.953 ppb	120.711 %	5.463 ppb	5.817 ppb	133.640 %
Concentration per Run 2	137.570 %	12.487 ppb	12.833 ppb	1,413.944 ppb	94.661 ppb	126.665 %	4.988 ppb	5.442 ppb	139.409 %
Concentration per Run 3	131.236 %	13.105 ppb	14.004 ppb	1,497.997 ppb	99.401 ppb	122.941 %	5.219 ppb	5.304 ppb	136.789 %
Concentration RSD	3.8 %	8.2 %	5.3 %	6.6 %	6.7 %	2.4 %	4.6 %	4.8 %	2.1 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	101.155 ppb	43.886 ppb	212.744 ppb	133.180 %	135.743 %	1.184 ppb	13.088 ppb	56.675 ppb	128.601 %
Concentration per Run 1	106.926 ppb	45.862 ppb	225.745 ppb	130.041 %	132.168 %	1.072 ppb	13.767 ppb	59.759 ppb	125.438 %
Concentration per Run 2	97.203 ppb	41.954 ppb	203.949 ppb	137.974 %	140.346 %	1.123 ppb	12.527 ppb	53.783 ppb	132.178 %
Concentration per Run 3	99.335 ppb	43.843 ppb	208.537 ppb	131.525 %	134.717 %	1.356 ppb	12.969 ppb	56.483 ppb	128.185 %
Concentration RSD	5.1 %	4.5 %	5.4 %	3.2 %	3.1 %	12.8 %	4.8 %	5.3 %	2.6 %

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Analysis label: WG1427762-8D10 6020TL
Analysis started at: 10/29/2020 6:20:52 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	126.701 %	150.293 %	6.122 ppb	2,127.936 ppb	5,435.682 ppb	229.484 ppb	1,232.003 ppb	54,356.780 ppb	128.175 %
Concentration per Run 1	131.730 %	149.922 %	5.927 ppb	2,153.636 ppb	5,432.141 ppb	227.095 ppb	1,242.877 ppb	54,053.328 ppb	131.312 %
Concentration per Run 2	124.074 %	155.811 %	6.204 ppb	2,061.285 ppb	5,310.389 ppb	225.292 ppb	1,220.884 ppb	54,197.080 ppb	125.472 %
Concentration per Run 3	124.298 %	145.147 %	6.235 ppb	2,168.888 ppb	5,564.517 ppb	236.066 ppb	1,232.247 ppb	54,819.931 ppb	127.740 %
Concentration RSD	3.4 %	3.6 %	2.8 %	2.7 %	2.3 %	2.5 %	0.9 %	0.7 %	2.3 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	163.415 ppb	49.344 ppb	19.278 ppb	56.617 ppb	137.459 ppb	49.022 ppb	46.402 ppb	24.080 ppb	53.116 ppb
Concentration per Run 1	157.054 ppb	48.381 ppb	18.994 ppb	56.461 ppb	126.397 ppb	49.080 ppb	45.464 ppb	23.867 ppb	53.428 ppb
Concentration per Run 2	163.257 ppb	49.889 ppb	19.282 ppb	55.382 ppb	143.456 ppb	48.933 ppb	46.432 ppb	24.167 ppb	52.142 ppb
Concentration per Run 3	169.934 ppb	49.761 ppb	19.557 ppb	58.010 ppb	142.524 ppb	49.053 ppb	47.311 ppb	24.206 ppb	53.777 ppb
Concentration RSD	3.9 %	1.7 %	1.5 %	2.3 %	7.0 %	0.2 %	2.0 %	0.8 %	1.6 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	127.226 %	13.296 ppb	13.155 ppb	1,528.003 ppb	104.582 ppb	121.165 %	5.304 ppb	5.637 ppb	134.493 %
Concentration per Run 1	127.291 %	13.126 ppb	12.521 ppb	1,529.130 ppb	105.242 ppb	121.407 %	5.232 ppb	5.702 ppb	134.693 %
Concentration per Run 2	128.523 %	13.782 ppb	12.728 ppb	1,521.589 ppb	105.326 ppb	121.992 %	5.307 ppb	5.710 ppb	134.666 %
Concentration per Run 3	125.865 %	12.980 ppb	14.217 ppb	1,533.290 ppb	103.178 ppb	120.096 %	5.374 ppb	5.499 ppb	134.119 %
Concentration RSD	1.0 %	3.2 %	7.0 %	0.4 %	1.2 %	0.8 %	1.3 %	2.1 %	0.2 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	100.857 ppb	48.592 ppb	212.652 ppb	130.816 %	133.954 %	0.354 ppb	12.963 ppb	56.157 ppb	128.526 %
Concentration per Run 1	101.359 ppb	48.058 ppb	212.635 ppb	130.567 %	133.660 %	0.240 ppb	13.020 ppb	56.090 ppb	128.691 %
Concentration per Run 2	100.591 ppb	48.281 ppb	213.689 ppb	130.980 %	134.200 %	0.372 ppb	12.787 ppb	55.856 ppb	128.830 %
Concentration per Run 3	100.620 ppb	49.437 ppb	211.633 ppb	130.900 %	134.001 %	0.449 ppb	13.084 ppb	56.524 ppb	128.057 %
Concentration RSD	0.4 %	1.5 %	0.5 %	0.2 %	0.2 %	29.8 %	1.2 %	0.6 %	0.3 %

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Analysis index: 131
Analysis label: WG1427762-9D10 6020TL
Analysis started at: 10/29/2020 6:25:59 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	123.820 %	148.808 %	52.960 ppb	5,856.374 ppb	9,108.294 ppb	66.062 ppb	5,030.430 ppb	58,998.079 ppb	129.604 %
Concentration per Run 1	124.144 %	150.558 %	52.589 ppb	5,760.583 ppb	8,993.737 ppb	64.163 ppb	4,956.336 ppb	58,002.222 ppb	128.424 %
Concentration per Run 2	124.139 %	150.081 %	53.364 ppb	5,814.477 ppb	8,952.909 ppb	65.076 ppb	5,004.870 ppb	58,504.554 ppb	130.666 %
Concentration per Run 3	123.178 %	145.784 %	52.926 ppb	5,994.064 ppb	9,378.237 ppb	68.947 ppb	5,130.084 ppb	60,487.462 ppb	129.720 %
Concentration RSD	0.4 %	1.8 %	0.7 %	2.1 %	2.6 %	3.8 %	1.8 %	2.2 %	0.9 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	127.483 ppb	44.965 ppb	44.624 ppb	54.206 ppb	4,697.294 ppb	44.641 ppb	44.539 ppb	43.954 ppb	46.309 ppb
Concentration per Run 1	125.536 ppb	44.649 ppb	44.450 ppb	54.032 ppb	4,584.416 ppb	43.611 ppb	43.854 ppb	43.522 ppb	46.326 ppb
Concentration per Run 2	126.867 ppb	44.670 ppb	43.613 ppb	52.734 ppb	4,695.766 ppb	43.620 ppb	43.934 ppb	42.724 ppb	45.336 ppb
Concentration per Run 3	130.047 ppb	45.575 ppb	45.809 ppb	55.852 ppb	4,811.700 ppb	46.693 ppb	45.829 ppb	45.614 ppb	47.265 ppb
Concentration RSD	1.8 %	1.2 %	2.5 %	2.9 %	2.4 %	4.0 %	2.5 %	3.4 %	2.1 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	124.292 %	49.462 ppb	49.672 ppb	1,500.657 ppb	50.101 ppb	116.866 %	1.359 ppb	47.695 ppb	131.219 %
Concentration per Run 1	124.271 %	49.076 ppb	48.613 ppb	1,477.955 ppb	49.218 ppb	117.581 %	1.304 ppb	47.103 ppb	131.611 %
Concentration per Run 2	126.237 %	49.380 ppb	47.816 ppb	1,499.524 ppb	49.387 ppb	116.547 %	1.388 ppb	47.472 ppb	131.508 %
Concentration per Run 3	122.368 %	49.929 ppb	52.586 ppb	1,524.491 ppb	51.697 ppb	116.469 %	1.385 ppb	48.509 ppb	130.539 %
Concentration RSD	1.6 %	0.9 %	5.1 %	1.6 %	2.8 %	0.5 %	3.5 %	1.5 %	0.5 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	49.696 ppb	53.555 ppb	49.282 ppb	130.847 %	134.059 %	39.596 ppb	47.510 ppb	48.076 ppb	125.475 %
Concentration per Run 1	49.322 ppb	53.070 ppb	49.170 ppb	131.767 %	134.347 %	39.538 ppb	46.590 ppb	47.507 ppb	125.610 %
Concentration per Run 2	49.480 ppb	53.513 ppb	48.562 ppb	132.443 %	135.957 %	39.151 ppb	47.238 ppb	48.228 ppb	126.121 %
Concentration per Run 3	50.286 ppb	54.081 ppb	50.113 ppb	128.331 %	131.871 %	40.099 ppb	48.701 ppb	48.493 ppb	124.694 %
Concentration RSD	1.0 %	0.9 %	1.6 %	1.7 %	1.5 %	1.2 %	2.3 %	1.1 %	0.6 %

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Analysis index: 132
Analysis label: L2046750-01 6020TL
Analysis started at: 10/29/2020 6:31:05 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	136.265 %	171.832 %	0.008 ppb	30,567.341 ppb	46,934.920 ppb	3.793 ppb	2,435.048 ppb	574,418.037 ppb	123.959 %
Concentration per Run 1	140.196 %	173.636 %	0.009 ppb	29,310.410 ppb	46,572.641 ppb	3.119 ppb	2,426.022 ppb	580,441.814 ppb	125.634 %
Concentration per Run 2	134.831 %	163.450 %	0.005 ppb	31,802.951 ppb	48,056.075 ppb	4.270 ppb	2,485.322 ppb	581,890.798 ppb	121.803 %
Concentration per Run 3	133.767 %	178.411 %	0.008 ppb	30,588.661 ppb	46,176.045 ppb	3.992 ppb	2,393.801 ppb	560,921.499 ppb	124.442 %
Concentration RSD	2.5 %	4.4 %	29.7 %	4.1 %	2.1 %	15.8 %	1.9 %	2.0 %	1.6 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	872.179 ppb	0.029 ppb	0.631 ppb	49.556 ppb	143.336 ppb	0.277 ppb	0.512 ppb	0.002 ppb	0.362 ppb
Concentration per Run 1	874.593 ppb	-0.016 ppb	0.676 ppb	49.424 ppb	141.135 ppb	0.294 ppb	0.418 ppb	0.052 ppb	0.369 ppb
Concentration per Run 2	889.919 ppb	0.009 ppb	0.629 ppb	50.396 ppb	142.303 ppb	0.287 ppb	0.608 ppb	-0.008 ppb	0.401 ppb
Concentration per Run 3	852.026 ppb	0.094 ppb	0.589 ppb	48.849 ppb	146.571 ppb	0.249 ppb	0.510 ppb	-0.039 ppb	0.315 ppb
Concentration RSD	2.2 %	197.9 %	6.9 %	1.6 %	2.0 %	8.7 %	18.5 %	3,036.0 %	12.0 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	123.913 %	0.355 ppb	0.073 ppb	15,693.658 ppb	2.529 ppb	115.092 %	0.001 ppb	0.001 ppb	135.156 %
Concentration per Run 1	121.182 %	0.321 ppb	0.104 ppb	15,827.485 ppb	2.176 ppb	113.770 %	0.000 ppb	0.000 ppb	133.214 %
Concentration per Run 2	123.524 %	0.307 ppb	0.156 ppb	15,464.025 ppb	2.496 ppb	114.804 %	0.001 ppb	0.000 ppb	134.440 %
Concentration per Run 3	127.034 %	0.436 ppb	-0.042 ppb	15,789.463 ppb	2.915 ppb	116.701 %	0.001 ppb	0.002 ppb	137.814 %
Concentration RSD	2.4 %	20.0 %	141.1 %	1.3 %	14.7 %	1.3 %	52.8 %	173.2 %	1.8 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.519 ppb	0.935 ppb	5.806 ppb	117.398 %	117.109 %	1.332 ppb	0.537 ppb	0.055 ppb	112.705 %
Concentration per Run 1	1.280 ppb	0.908 ppb	5.618 ppb	115.478 %	115.612 %	1.135 ppb	0.557 ppb	0.055 ppb	111.556 %
Concentration per Run 2	1.686 ppb	0.946 ppb	5.893 ppb	116.733 %	116.313 %	1.372 ppb	0.530 ppb	0.061 ppb	112.230 %
Concentration per Run 3	1.590 ppb	0.950 ppb	5.907 ppb	119.983 %	119.402 %	1.487 ppb	0.523 ppb	0.050 ppb	114.329 %
Concentration RSD	14.0 %	2.5 %	2.8 %	2.0 %	1.7 %	13.5 %	3.4 %	10.1 %	1.3 %

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Analysis index: 133
Analysis label: L2046750-06 6020TL
Analysis started at: 10/29/2020 6:36:11 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	131.867 %	150.505 %	0.009 ppb	11,520.793 ppb	44,171.138 ppb	187.064 ppb	1,984.364 ppb	576,299.139 ppb	119.240 %
Concentration per Run 1	131.664 %	153.264 %	0.014 ppb	11,473.348 ppb	44,188.770 ppb	178.829 ppb	1,970.901 ppb	572,403.549 ppb	118.403 %
Concentration per Run 2	119.232 %	149.444 %	0.008 ppb	11,627.757 ppb	44,263.030 ppb	186.332 ppb	2,011.845 ppb	578,055.744 ppb	111.710 %
Concentration per Run 3	144.703 %	148.808 %	0.005 ppb	11,461.276 ppb	44,061.615 ppb	196.032 ppb	1,970.346 ppb	578,438.124 ppb	127.607 %
Concentration RSD	9.7 %	1.6 %	48.5 %	0.8 %	0.2 %	4.6 %	1.2 %	0.6 %	6.7 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	888.341 ppb	0.400 ppb	1.331 ppb	62.820 ppb	350.923 ppb	0.411 ppb	0.974 ppb	0.431 ppb	1.151 ppb
Concentration per Run 1	877.694 ppb	0.316 ppb	1.351 ppb	62.522 ppb	353.731 ppb	0.391 ppb	1.010 ppb	0.410 ppb	1.140 ppb
Concentration per Run 2	892.638 ppb	0.415 ppb	1.218 ppb	62.629 ppb	349.719 ppb	0.399 ppb	0.922 ppb	0.398 ppb	1.115 ppb
Concentration per Run 3	894.691 ppb	0.468 ppb	1.424 ppb	63.307 ppb	349.320 ppb	0.445 ppb	0.988 ppb	0.485 ppb	1.199 ppb
Concentration RSD	1.0 %	19.3 %	7.9 %	0.7 %	0.7 %	7.1 %	4.7 %	10.9 %	3.8 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	116.015 %	0.402 ppb	0.094 ppb	16,311.150 ppb	1.778 ppb	109.066 %	0.000 ppb	0.002 ppb	128.231 %
Concentration per Run 1	117.536 %	0.404 ppb	0.082 ppb	16,225.985 ppb	1.509 ppb	109.632 %	0.001 ppb	0.000 ppb	127.907 %
Concentration per Run 2	115.455 %	0.380 ppb	0.144 ppb	16,296.785 ppb	1.731 ppb	109.971 %	-0.001 ppb	0.005 ppb	129.427 %
Concentration per Run 3	115.054 %	0.422 ppb	0.056 ppb	16,410.681 ppb	2.092 ppb	107.594 %	0.000 ppb	0.002 ppb	127.358 %
Concentration RSD	1.1 %	5.3 %	48.2 %	0.6 %	16.5 %	1.2 %	859.8 %	99.4 %	0.8 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.771 ppb	0.567 ppb	6.332 ppb	111.126 %	111.742 %	0.392 ppb	0.188 ppb	0.074 ppb	108.774 %
Concentration per Run 1	0.601 ppb	0.491 ppb	6.461 ppb	111.889 %	112.871 %	0.274 ppb	0.177 ppb	0.069 ppb	109.916 %
Concentration per Run 2	0.810 ppb	0.608 ppb	6.260 ppb	110.920 %	112.127 %	0.400 ppb	0.193 ppb	0.073 ppb	109.318 %
Concentration per Run 3	0.901 ppb	0.603 ppb	6.273 ppb	110.568 %	110.229 %	0.502 ppb	0.193 ppb	0.081 ppb	107.087 %
Concentration RSD	20.0 %	11.6 %	1.8 %	0.6 %	1.2 %	29.1 %	5.1 %	8.7 %	1.4 %

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Analysis index: 134
Analysis label: L2046750-02 6020TL
Analysis started at: 10/29/2020 6:41:18 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	133.599 %	154.007 %	0.001 ppb	16,145.095 ppb	55,611.130 ppb	16.959 ppb	1,500.108 ppb	173,410.177 ppb	134.141 %
Concentration per Run 1	134.861 %	153.264 %	-0.001 ppb	15,942.759 ppb	54,690.135 ppb	16.311 ppb	1,506.193 ppb	169,774.768 ppb	133.161 %
Concentration per Run 2	130.916 %	161.540 %	0.002 ppb	15,636.747 ppb	53,923.971 ppb	17.111 ppb	1,486.975 ppb	169,808.252 ppb	131.773 %
Concentration per Run 3	135.021 %	147.216 %	0.003 ppb	16,855.779 ppb	58,219.284 ppb	17.456 ppb	1,507.154 ppb	180,647.510 ppb	137.490 %
Concentration RSD	1.7 %	4.7 %	208.2 %	3.9 %	4.1 %	3.5 %	0.8 %	3.6 %	2.2 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	278.370 ppb	0.034 ppb	0.774 ppb	87.449 ppb	40.777 ppb	4.687 ppb	1.277 ppb	0.678 ppb	0.294 ppb
Concentration per Run 1	275.391 ppb	0.035 ppb	0.779 ppb	85.350 ppb	33.443 ppb	4.422 ppb	1.206 ppb	0.502 ppb	0.242 ppb
Concentration per Run 2	269.153 ppb	0.031 ppb	0.715 ppb	87.764 ppb	42.912 ppb	4.649 ppb	1.137 ppb	0.705 ppb	0.277 ppb
Concentration per Run 3	290.565 ppb	0.037 ppb	0.827 ppb	89.233 ppb	45.977 ppb	4.988 ppb	1.489 ppb	0.826 ppb	0.362 ppb
Concentration RSD	4.0 %	8.8 %	7.3 %	2.2 %	16.0 %	6.1 %	14.6 %	24.2 %	21.1 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	125.880 %	0.167 ppb	0.087 ppb	10,284.338 ppb	1.316 ppb	116.363 %	0.000 ppb	0.002 ppb	132.340 %
Concentration per Run 1	125.692 %	0.197 ppb	0.151 ppb	10,245.241 ppb	1.135 ppb	116.699 %	0.001 ppb	0.005 ppb	132.690 %
Concentration per Run 2	126.976 %	0.180 ppb	-0.014 ppb	10,253.302 ppb	1.358 ppb	115.967 %	-0.001 ppb	0.002 ppb	132.524 %
Concentration per Run 3	124.971 %	0.124 ppb	0.125 ppb	10,354.469 ppb	1.454 ppb	116.423 %	0.000 ppb	0.000 ppb	131.807 %
Concentration RSD	0.8 %	22.8 %	102.1 %	0.6 %	12.4 %	0.3 %	3,018.1 %	99.9 %	0.4 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.410 ppb	0.385 ppb	28.420 ppb	127.996 %	129.624 %	0.161 ppb	0.112 ppb	0.110 ppb	116.808 %
Concentration per Run 1	0.275 ppb	0.374 ppb	28.685 ppb	128.651 %	130.089 %	0.110 ppb	0.112 ppb	0.115 ppb	117.118 %
Concentration per Run 2	0.481 ppb	0.378 ppb	28.226 ppb	128.316 %	129.430 %	0.163 ppb	0.110 ppb	0.112 ppb	116.335 %
Concentration per Run 3	0.474 ppb	0.404 ppb	28.351 ppb	127.020 %	129.352 %	0.211 ppb	0.114 ppb	0.103 ppb	116.972 %
Concentration RSD	28.5 %	4.2 %	0.8 %	0.7 %	0.3 %	31.2 %	1.8 %	5.6 %	0.4 %

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Analysis index: 135
Analysis label: L2046750-03 6020TL
Analysis started at: 10/29/2020 6:46:24 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	939.543 %	1,237.371 %	0.010 ppb	1,050,385.269 ppb	58,917.476 ppb	13.660 ppb	30,744.655 ppb	165,812.316 ppb	203.638 %
Concentration per Run 1	942.038 %	1,197.196 %	0.016 ppb	1,043,121.232 ppb	58,803.419 ppb	12.857 ppb	31,028.540 ppb	171,384.604 ppb	204.904 %
Concentration per Run 2	941.209 %	1,266.136 %	0.005 ppb	1,045,641.281 ppb	58,402.414 ppb	13.983 ppb	30,734.191 ppb	163,069.241 ppb	204.544 %
Concentration per Run 3	935.383 %	1,248.781 %	0.009 ppb	1,062,393.294 ppb	59,546.594 ppb	14.138 ppb	30,471.233 ppb	162,983.101 ppb	201.466 %
Concentration RSD	0.4 %	2.9 %	53.9 %	1.0 %	1.0 %	5.1 %	0.9 %	2.9 %	0.9 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	219.013 ppb	-0.030 ppb	1.948 ppb	38.467 ppb	630.999 ppb	0.521 ppb	14.710 ppb	1.250 ppb	0.191 ppb
Concentration per Run 1	225.719 ppb	-0.055 ppb	1.960 ppb	38.226 ppb	617.486 ppb	0.546 ppb	14.834 ppb	1.239 ppb	0.162 ppb
Concentration per Run 2	214.864 ppb	-0.019 ppb	1.939 ppb	38.061 ppb	633.839 ppb	0.535 ppb	14.537 ppb	1.260 ppb	0.196 ppb
Concentration per Run 3	216.457 ppb	-0.015 ppb	1.946 ppb	39.114 ppb	641.673 ppb	0.481 ppb	14.759 ppb	1.251 ppb	0.215 ppb
Concentration RSD	2.7 %	73.5 %	0.6 %	1.5 %	2.0 %	6.7 %	1.1 %	0.8 %	14.0 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	132.232 %	0.994 ppb	0.045 ppb	28,613.302 ppb	12.462 ppb	101.878 %	2.155 ppb	0.005 ppb	122.367 %
Concentration per Run 1	128.664 %	0.969 ppb	0.013 ppb	28,070.234 ppb	12.700 ppb	100.642 %	2.199 ppb	0.005 ppb	119.338 %
Concentration per Run 2	132.125 %	1.007 ppb	0.090 ppb	29,283.054 ppb	12.834 ppb	101.424 %	2.152 ppb	0.008 ppb	122.131 %
Concentration per Run 3	135.907 %	1.005 ppb	0.032 ppb	28,486.618 ppb	11.851 ppb	103.568 %	2.113 ppb	0.002 ppb	125.633 %
Concentration RSD	2.7 %	2.1 %	88.1 %	2.2 %	4.3 %	1.5 %	2.0 %	50.6 %	2.6 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.661 ppb	0.469 ppb	21.318 ppb	96.233 %	87.800 %	0.759 ppb	0.120 ppb	0.403 ppb	60.531 %
Concentration per Run 1	0.689 ppb	0.395 ppb	20.355 ppb	96.155 %	87.887 %	0.699 ppb	0.098 ppb	0.403 ppb	60.868 %
Concentration per Run 2	0.606 ppb	0.503 ppb	22.105 ppb	95.689 %	87.952 %	0.744 ppb	0.122 ppb	0.410 ppb	60.071 %
Concentration per Run 3	0.688 ppb	0.508 ppb	21.495 ppb	96.856 %	87.560 %	0.835 ppb	0.141 ppb	0.395 ppb	60.653 %
Concentration RSD	7.2 %	13.5 %	4.2 %	0.6 %	0.2 %	9.2 %	17.8 %	1.8 %	0.7 %

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Analysis index: 136
Analysis label: WG1427762-6D5 6020TL
Analysis started at: 10/29/2020 6:51:30 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	247.959 %	253.853 %	0.005 ppb	5,957.589 ppb	10,085.398 ppb	1.020 ppb	457.088 ppb	111,327.908 ppb	234.840 %
Concentration per Run 1	263.566 %	256.558 %	-0.001 ppb	6,250.920 ppb	10,624.721 ppb	0.983 ppb	479.769 ppb	116,676.082 ppb	245.682 %
Concentration per Run 2	246.948 %	256.399 %	0.008 ppb	6,055.637 ppb	10,364.132 ppb	1.065 ppb	458.383 ppb	113,084.594 ppb	234.746 %
Concentration per Run 3	233.364 %	248.600 %	0.009 ppb	5,566.211 ppb	9,267.342 ppb	1.012 ppb	433.112 ppb	104,223.049 ppb	224.091 %
Concentration RSD	6.1 %	1.8 %	110.2 %	5.9 %	7.1 %	4.1 %	5.1 %	5.8 %	4.6 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	157.611 ppb	0.000 ppb	0.139 ppb	9.876 ppb	36.731 ppb	0.069 ppb	0.080 ppb	-0.003 ppb	0.098 ppb
Concentration per Run 1	163.281 ppb	-0.015 ppb	0.122 ppb	10.365 ppb	36.361 ppb	0.069 ppb	0.084 ppb	0.008 ppb	0.124 ppb
Concentration per Run 2	160.648 ppb	-0.008 ppb	0.136 ppb	10.356 ppb	35.557 ppb	0.076 ppb	0.110 ppb	0.000 ppb	0.058 ppb
Concentration per Run 3	148.904 ppb	0.022 ppb	0.159 ppb	8.908 ppb	38.274 ppb	0.061 ppb	0.046 ppb	-0.018 ppb	0.113 ppb
Concentration RSD	4.9 %	5,676.0 %	13.2 %	8.5 %	3.8 %	10.5 %	40.4 %	392.0 %	36.1 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	198.241 %	0.051 ppb	-0.030 ppb	2,755.873 ppb	0.578 ppb	174.717 %	0.000 ppb	0.000 ppb	192.946 %
Concentration per Run 1	195.215 %	0.073 ppb	-0.052 ppb	2,899.398 ppb	0.566 ppb	172.540 %	0.000 ppb	0.000 ppb	188.834 %
Concentration per Run 2	198.241 %	0.024 ppb	-0.001 ppb	2,793.362 ppb	0.605 ppb	172.807 %	0.000 ppb	0.000 ppb	188.962 %
Concentration per Run 3	201.266 %	0.055 ppb	-0.037 ppb	2,574.861 ppb	0.562 ppb	178.805 %	-0.001 ppb	0.000 ppb	201.041 %
Concentration RSD	1.5 %	48.7 %	88.4 %	6.0 %	4.1 %	2.0 %	2,720.0 %	N/A	3.6 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.374 ppb	0.210 ppb	1.092 ppb	167.952 %	166.267 %	0.065 ppb	0.053 ppb	0.002 ppb	155.915 %
Concentration per Run 1	0.327 ppb	0.197 ppb	1.327 ppb	164.368 %	163.142 %	0.031 ppb	0.049 ppb	0.001 ppb	152.839 %
Concentration per Run 2	0.398 ppb	0.218 ppb	1.025 ppb	165.292 %	162.712 %	0.072 ppb	0.057 ppb	0.001 ppb	153.597 %
Concentration per Run 3	0.395 ppb	0.215 ppb	0.924 ppb	174.194 %	172.946 %	0.093 ppb	0.052 ppb	0.004 ppb	161.309 %
Concentration RSD	10.8 %	5.5 %	19.2 %	3.2 %	3.5 %	48.7 %	7.2 %	73.1 %	3.0 %

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Analysis index: 137
Analysis label: WG1427762-10D5 6020TL
Analysis started at: 10/29/2020 6:56:36 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	198.793 %	204.937 %	0.003 ppb	2,342.180 ppb	9,364.158 ppb	42.478 ppb	368.483 ppb	112,625.090 ppb	192.906 %
Concentration per Run 1	202.572 %	209.924 %	0.003 ppb	2,260.488 ppb	9,042.650 ppb	40.521 ppb	356.033 ppb	108,785.112 ppb	195.150 %
Concentration per Run 2	198.350 %	206.423 %	0.004 ppb	2,318.756 ppb	9,127.799 ppb	40.178 ppb	360.261 ppb	109,998.543 ppb	191.407 %
Concentration per Run 3	195.458 %	198.465 %	0.002 ppb	2,447.295 ppb	9,922.026 ppb	46.736 ppb	389.155 ppb	119,091.617 ppb	192.161 %
Concentration RSD	1.8 %	2.9 %	37.5 %	4.1 %	5.2 %	8.7 %	4.9 %	5.0 %	1.0 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	163.357 ppb	0.053 ppb	0.209 ppb	12.342 ppb	71.967 ppb	0.095 ppb	0.239 ppb	0.053 ppb	0.259 ppb
Concentration per Run 1	157.549 ppb	0.053 ppb	0.145 ppb	12.297 ppb	74.977 ppb	0.081 ppb	0.235 ppb	0.100 ppb	0.274 ppb
Concentration per Run 2	157.983 ppb	0.066 ppb	0.272 ppb	11.992 ppb	66.198 ppb	0.100 ppb	0.208 ppb	0.044 ppb	0.229 ppb
Concentration per Run 3	174.538 ppb	0.040 ppb	0.211 ppb	12.736 ppb	74.725 ppb	0.104 ppb	0.274 ppb	0.014 ppb	0.274 ppb
Concentration RSD	5.9 %	24.6 %	30.5 %	3.0 %	6.9 %	12.5 %	14.0 %	82.5 %	10.0 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	167.121 %	0.071 ppb	-0.026 ppb	2,934.429 ppb	0.361 ppb	149.889 %	0.000 ppb	0.001 ppb	170.111 %
Concentration per Run 1	168.952 %	0.042 ppb	-0.062 ppb	2,795.596 ppb	0.286 ppb	155.472 %	0.000 ppb	0.000 ppb	175.254 %
Concentration per Run 2	165.418 %	0.122 ppb	0.023 ppb	2,912.149 ppb	0.422 ppb	148.542 %	0.001 ppb	0.002 ppb	165.943 %
Concentration per Run 3	166.994 %	0.048 ppb	-0.040 ppb	3,095.541 ppb	0.376 ppb	145.653 %	0.001 ppb	0.000 ppb	169.135 %
Concentration RSD	1.1 %	63.3 %	168.0 %	5.2 %	19.2 %	3.4 %	107.4 %	173.2 %	2.8 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.285 ppb	0.160 ppb	1.162 ppb	150.858 %	151.412 %	0.028 ppb	0.046 ppb	0.012 ppb	144.596 %
Concentration per Run 1	0.175 ppb	0.142 ppb	0.975 ppb	155.388 %	154.478 %	-0.010 ppb	0.032 ppb	0.011 ppb	149.089 %
Concentration per Run 2	0.317 ppb	0.170 ppb	1.171 ppb	149.537 %	148.264 %	0.044 ppb	0.048 ppb	0.011 ppb	142.650 %
Concentration per Run 3	0.365 ppb	0.168 ppb	1.339 ppb	147.650 %	151.493 %	0.051 ppb	0.056 ppb	0.013 ppb	142.049 %
Concentration RSD	34.7 %	9.7 %	15.7 %	2.7 %	2.1 %	118.6 %	26.2 %	13.0 %	2.7 %

Analysis index: 138 Analysis started at: 10/29/2020 7:01:43 PM
Analysis label: CCV User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	165.301 %	171.143 %	58.090 ppb	6,047.982 ppb	6,122.422 ppb	64.479 ppb	6,315.100 ppb	5,978.997 ppb	173.786 %
Concentration per Run 1	169.087 %	166.156 %	56.312 ppb	6,133.083 ppb	6,154.156 ppb	63.446 ppb	6,290.180 ppb	5,879.204 ppb	174.647 %
Concentration per Run 2	163.600 %	172.522 %	58.979 ppb	5,957.223 ppb	6,022.039 ppb	63.106 ppb	6,147.404 ppb	5,919.480 ppb	171.176 %
Concentration per Run 3	163.216 %	174.750 %	58.978 ppb	6,053.641 ppb	6,191.071 ppb	66.885 ppb	6,507.717 ppb	6,138.307 ppb	175.536 %
Recovery Percentage 1			96.816 %	100.800 %	102.040 %	107.465 %	105.252 %	99.650 %	
Concentration RSD	2.0 %	2.6 %	2.7 %	1.5 %	1.5 %	3.2 %	2.9 %	2.3 %	1.3 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	56.951 ppb	56.472 ppb	54.789 ppb	59.245 ppb	5,922.049 ppb	55.996 ppb	56.419 ppb	55.925 ppb	59.038 ppb
Concentration per Run 1	56.037 ppb	56.142 ppb	54.270 ppb	57.079 ppb	5,953.909 ppb	56.239 ppb	56.179 ppb	55.892 ppb	59.142 ppb
Concentration per Run 2	56.662 ppb	56.443 ppb	54.609 ppb	60.066 ppb	5,833.798 ppb	56.251 ppb	55.807 ppb	56.528 ppb	58.354 ppb
Concentration per Run 3	58.153 ppb	56.832 ppb	55.488 ppb	60.589 ppb	5,978.441 ppb	55.499 ppb	57.270 ppb	55.354 ppb	59.619 ppb
Recovery Percentage 1	94.918 %	94.121 %	91.315 %	98.741 %	98.701 %	93.327 %	94.031 %	93.208 %	98.397 %
Concentration RSD	1.9 %	0.6 %	1.1 %	3.2 %	1.3 %	0.8 %	1.3 %	1.1 %	1.1 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	146.186 %	59.494 ppb	61.780 ppb	63.113 ppb	57.498 ppb	134.400 %	58.067 ppb	58.492 ppb	149.888 %
Concentration per Run 1	147.530 %	58.775 ppb	60.537 ppb	62.379 ppb	56.129 ppb	136.730 %	58.171 ppb	58.345 ppb	150.609 %
Concentration per Run 2	144.431 %	59.638 ppb	61.052 ppb	62.668 ppb	57.884 ppb	133.855 %	58.161 ppb	58.883 ppb	149.247 %
Concentration per Run 3	146.596 %	60.070 ppb	63.752 ppb	64.292 ppb	58.481 ppb	132.616 %	57.870 ppb	58.250 ppb	149.808 %
Recovery Percentage 1		99.157 %	102.967 %	105.189 %	95.830 %		96.779 %	97.487 %	
Concentration RSD	1.1 %	1.1 %	2.8 %	1.6 %	2.1 %	1.6 %	0.3 %	0.6 %	0.5 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.577 ppb	58.867 ppb	60.798 ppb	143.178 %	147.406 %	55.498 ppb	57.926 ppb	58.705 ppb	135.698 %
Concentration per Run 1	57.965 ppb	58.360 ppb	59.186 ppb	145.449 %	148.503 %	56.542 ppb	58.133 ppb	58.940 ppb	135.718 %
Concentration per Run 2	59.097 ppb	58.691 ppb	61.124 ppb	142.116 %	145.628 %	55.593 ppb	57.503 ppb	58.671 ppb	136.235 %
Concentration per Run 3	58.670 ppb	59.549 ppb	62.085 ppb	141.969 %	148.087 %	54.359 ppb	58.141 ppb	58.503 ppb	135.142 %
Recovery Percentage 1	97.629 %	98.112 %	101.330 %			92.497 %	96.543 %	97.841 %	
Concentration RSD	1.0 %	1.0 %	2.4 %	1.4 %	1.1 %	2.0 %	0.6 %	0.4 %	0.4 %

Alpha ICPMSQ Full

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Analysis index: 139 Analysis started at: 10/29/2020 7:06:52 PM
Analysis label: CCB User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	143.729 %	158.463 %	0.004 ppb	6.704 ppb	0.822 ppb	0.256 ppb	0.148 ppb	3.913 ppb	137.884 %
Concentration per Run 1	146.720 %	154.696 %	0.005 ppb	6.247 ppb	0.671 ppb	0.090 ppb	-0.741 ppb	1.357 ppb	138.961 %
Concentration per Run 2	143.320 %	159.789 %	0.002 ppb	7.823 ppb	0.634 ppb	0.519 ppb	-0.387 ppb	6.757 ppb	137.821 %
Concentration per Run 3	141.147 %	160.904 %	0.006 ppb	6.042 ppb	1.162 ppb	0.160 ppb	1.572 ppb	3.627 ppb	136.871 %
Recovery Percentage 1			0.865 %	6.704 %	1.175 %	2.561 %	0.148 %	3.913 %	
Concentration RSD	2.0 %	2.1 %	52.0 %	14.5 %	35.8 %	89.9 %	840.8 %	69.3 %	0.8 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.138 ppb	0.007 ppb	0.001 ppb	0.100 ppb	24.449 ppb	0.002 ppb	0.006 ppb	-0.033 ppb	0.068 ppb
Concentration per Run 1	0.119 ppb	-0.051 ppb	-0.006 ppb	0.191 ppb	25.442 ppb	0.004 ppb	-0.002 ppb	-0.010 ppb	0.010 ppb
Concentration per Run 2	0.249 ppb	0.016 ppb	0.000 ppb	0.040 ppb	25.224 ppb	0.000 ppb	0.023 ppb	-0.040 ppb	0.068 ppb
Concentration per Run 3	0.047 ppb	0.055 ppb	0.009 ppb	0.069 ppb	22.682 ppb	0.004 ppb	-0.002 ppb	-0.048 ppb	0.125 ppb
Recovery Percentage 1	27.653 %	0.132 %	0.112 %	9.997 %	48.899 %	0.495 %	0.309 %	-3.262 %	0.676 %
Concentration RSD	74.2 %	808.1 %	698.9 %	79.8 %	6.3 %	86.6 %	237.5 %	61.4 %	84.8 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	130.650 %	0.057 ppb	0.078 ppb	0.013 ppb	0.790 ppb	123.468 %	0.006 ppb	0.001 ppb	136.180 %
Concentration per Run 1	129.499 %	0.025 ppb	0.009 ppb	0.005 ppb	0.752 ppb	123.625 %	0.002 ppb	0.002 ppb	134.207 %
Concentration per Run 2	135.302 %	0.098 ppb	0.132 ppb	0.024 ppb	0.883 ppb	124.596 %	0.009 ppb	0.000 ppb	139.782 %
Concentration per Run 3	127.151 %	0.048 ppb	0.092 ppb	0.011 ppb	0.736 ppb	122.182 %	0.008 ppb	0.000 ppb	134.552 %
Recovery Percentage 1		11.431 %	1.556 %	2.679 %	39.520 %		1.550 %	0.370 %	
Concentration RSD	3.2 %	64.8 %	80.3 %	73.4 %	10.2 %	1.0 %	59.2 %	173.2 %	2.3 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.870 ppb	0.151 ppb	0.006 ppb	129.589 %	133.912 %	0.982 ppb	0.412 ppb	0.030 ppb	128.351 %
Concentration per Run 1	0.815 ppb	0.123 ppb	0.001 ppb	129.368 %	134.709 %	0.800 ppb	0.416 ppb	0.031 ppb	129.921 %
Concentration per Run 2	0.955 ppb	0.146 ppb	0.001 ppb	131.432 %	135.283 %	1.055 ppb	0.411 ppb	0.029 ppb	129.476 %
Concentration per Run 3	0.838 ppb	0.184 ppb	0.016 ppb	127.967 %	131.743 %	1.090 ppb	0.409 ppb	0.031 ppb	125.657 %
Recovery Percentage 1	28.986 %	3.778 %	1.193 %			49.083 %	82.382 %	3.016 %	
Concentration RSD	8.6 %	20.1 %	151.0 %	1.3 %	1.4 %	16.1 %	0.8 %	4.4 %	1.8 %

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Analysis index: 140
Analysis label: WG1427762-11D10 6020TL
Analysis started at: 10/29/2020 7:16:23 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	136.124 %	156.819 %	6.792 ppb	1,871.839 ppb	1,266.674 ppb	219.885 ppb	1,274.038 ppb	1,719.362 ppb	134.339 %
Concentration per Run 1	139.973 %	151.513 %	6.682 ppb	1,952.667 ppb	1,314.720 ppb	227.764 ppb	1,315.846 ppb	1,769.643 ppb	136.042 %
Concentration per Run 2	136.738 %	163.928 %	6.785 ppb	1,712.076 ppb	1,153.174 ppb	193.592 ppb	1,135.600 ppb	1,630.937 ppb	135.693 %
Concentration per Run 3	131.660 %	155.015 %	6.909 ppb	1,950.774 ppb	1,332.129 ppb	238.298 ppb	1,370.669 ppb	1,757.506 ppb	131.281 %
Concentration RSD	3.1 %	4.1 %	1.7 %	7.4 %	7.8 %	10.6 %	9.7 %	4.5 %	2.0 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	85.202 ppb	47.232 ppb	18.913 ppb	54.633 ppb	108.248 ppb	46.758 ppb	46.220 ppb	23.659 ppb	53.568 ppb
Concentration per Run 1	89.829 ppb	50.681 ppb	20.168 ppb	58.688 ppb	113.697 ppb	50.768 ppb	49.074 ppb	25.159 ppb	57.018 ppb
Concentration per Run 2	79.110 ppb	43.398 ppb	17.821 ppb	49.327 ppb	102.886 ppb	43.771 ppb	42.595 ppb	22.428 ppb	49.675 ppb
Concentration per Run 3	86.666 ppb	47.618 ppb	18.750 ppb	55.884 ppb	108.160 ppb	45.734 ppb	46.992 ppb	23.389 ppb	54.009 ppb
Concentration RSD	6.5 %	7.7 %	6.2 %	8.8 %	5.0 %	7.7 %	7.2 %	5.9 %	6.9 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	137.616 %	12.606 ppb	13.367 ppb	113.619 ppb	93.405 ppb	129.395 %	4.993 ppb	5.356 ppb	145.265 %
Concentration per Run 1	132.082 %	13.339 ppb	13.499 ppb	119.159 ppb	101.304 ppb	127.206 %	5.270 ppb	5.779 ppb	140.727 %
Concentration per Run 2	139.191 %	11.876 ppb	12.485 ppb	102.610 ppb	85.104 ppb	131.946 %	4.642 ppb	4.842 ppb	146.532 %
Concentration per Run 3	141.576 %	12.602 ppb	14.116 ppb	119.089 ppb	93.805 ppb	129.034 %	5.066 ppb	5.448 ppb	148.536 %
Concentration RSD	3.6 %	5.8 %	6.2 %	8.4 %	8.7 %	1.8 %	6.4 %	8.9 %	2.8 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	93.174 ppb	43.972 ppb	207.862 ppb	136.485 %	141.433 %	0.230 ppb	12.063 ppb	54.554 ppb	133.161 %
Concentration per Run 1	101.234 ppb	47.148 ppb	220.764 ppb	133.890 %	138.425 %	0.199 ppb	12.910 ppb	58.115 ppb	128.991 %
Concentration per Run 2	86.264 ppb	40.778 ppb	191.795 ppb	140.057 %	142.606 %	0.211 ppb	11.204 ppb	50.316 ppb	137.318 %
Concentration per Run 3	92.024 ppb	43.989 ppb	211.027 ppb	135.507 %	143.270 %	0.279 ppb	12.076 ppb	55.231 ppb	133.175 %
Concentration RSD	8.1 %	7.2 %	7.1 %	2.3 %	1.9 %	18.7 %	7.1 %	7.2 %	3.1 %

Alpha ICPMSQ Full

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Analysis index: 141
Analysis label: WG1427762-12D10 6020TL
Analysis started at: 10/29/2020 7:21:29 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	140.130 %	156.925 %	6.486 ppb	1,923.776 ppb	1,304.059 ppb	223.488 ppb	1,292.077 ppb	1,824.060 ppb	137.910 %
Concentration per Run 1	142.537 %	156.129 %	6.383 ppb	1,897.381 ppb	1,256.111 ppb	219.480 ppb	1,254.231 ppb	1,810.747 ppb	137.805 %
Concentration per Run 2	139.614 %	149.444 %	6.473 ppb	1,976.902 ppb	1,389.466 ppb	226.348 ppb	1,319.667 ppb	1,827.701 ppb	138.405 %
Concentration per Run 3	138.240 %	165.201 %	6.602 ppb	1,897.046 ppb	1,266.601 ppb	224.637 ppb	1,302.334 ppb	1,833.733 ppb	137.521 %
Concentration RSD	1.6 %	5.0 %	1.7 %	2.4 %	5.7 %	1.6 %	2.6 %	0.7 %	0.3 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	86.523 ppb	48.969 ppb	19.030 ppb	57.368 ppb	111.235 ppb	48.962 ppb	47.248 ppb	24.681 ppb	54.698 ppb
Concentration per Run 1	84.770 ppb	48.221 ppb	19.167 ppb	56.603 ppb	105.208 ppb	49.209 ppb	48.175 ppb	24.313 ppb	54.473 ppb
Concentration per Run 2	89.621 ppb	49.287 ppb	19.427 ppb	58.523 ppb	120.846 ppb	49.338 ppb	47.410 ppb	24.317 ppb	55.152 ppb
Concentration per Run 3	85.178 ppb	49.400 ppb	18.494 ppb	56.977 ppb	107.652 ppb	48.339 ppb	46.160 ppb	25.414 ppb	54.469 ppb
Concentration RSD	3.1 %	1.3 %	2.5 %	1.8 %	7.6 %	1.1 %	2.2 %	2.6 %	0.7 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	134.147 %	12.811 ppb	13.464 ppb	116.236 ppb	98.796 ppb	126.527 %	5.172 ppb	5.578 ppb	140.076 %
Concentration per Run 1	134.478 %	12.548 ppb	13.228 ppb	112.893 ppb	96.711 ppb	127.853 %	5.091 ppb	5.453 ppb	138.901 %
Concentration per Run 2	134.515 %	12.909 ppb	13.609 ppb	114.969 ppb	98.988 ppb	126.021 %	5.228 ppb	5.599 ppb	137.848 %
Concentration per Run 3	133.448 %	12.976 ppb	13.554 ppb	120.845 ppb	100.690 ppb	125.706 %	5.196 ppb	5.683 ppb	143.479 %
Concentration RSD	0.5 %	1.8 %	1.5 %	3.5 %	2.0 %	0.9 %	1.4 %	2.1 %	2.1 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	98.746 ppb	48.443 ppb	212.592 ppb	133.625 %	137.487 %	0.090 ppb	12.457 ppb	55.844 ppb	130.712 %
Concentration per Run 1	98.474 ppb	47.675 ppb	210.117 ppb	133.090 %	137.067 %	0.055 ppb	12.456 ppb	55.242 ppb	131.003 %
Concentration per Run 2	99.212 ppb	48.871 ppb	214.282 ppb	131.948 %	134.136 %	0.094 ppb	12.446 ppb	56.603 ppb	128.695 %
Concentration per Run 3	98.554 ppb	48.783 ppb	213.376 ppb	135.837 %	141.257 %	0.122 ppb	12.470 ppb	55.688 ppb	132.439 %
Concentration RSD	0.4 %	1.4 %	1.0 %	1.5 %	2.6 %	37.3 %	0.1 %	1.2 %	1.4 %

Alpha ICPMSQ Full

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Analysis index: 142
Analysis label: WG1427762-13D10 6020TL
Analysis started at: 10/29/2020 7:26:35 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	128.588 %	151.672 %	67.404 ppb	6,180.022 ppb	5,503.740 ppb	57.122 ppb	5,660.406 ppb	6,258.537 ppb	132.002 %
Concentration per Run 1	136.582 %	154.696 %	65.657 ppb	6,061.889 ppb	5,293.173 ppb	56.076 ppb	5,411.295 ppb	5,980.677 ppb	134.789 %
Concentration per Run 2	113.097 %	153.582 %	74.938 ppb	6,197.036 ppb	5,562.945 ppb	57.236 ppb	5,856.463 ppb	6,371.656 ppb	124.477 %
Concentration per Run 3	136.084 %	146.739 %	61.617 ppb	6,281.142 ppb	5,655.102 ppb	58.055 ppb	5,713.462 ppb	6,423.276 ppb	136.741 %
Concentration RSD	10.4 %	2.8 %	10.1 %	1.8 %	3.4 %	1.7 %	4.0 %	3.9 %	5.0 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	51.118 ppb	48.524 ppb	48.344 ppb	57.589 ppb	5,102.199 ppb	48.633 ppb	48.745 ppb	48.889 ppb	52.130 ppb
Concentration per Run 1	49.605 ppb	46.518 ppb	46.944 ppb	57.200 ppb	5,013.341 ppb	48.474 ppb	47.789 ppb	49.018 ppb	51.943 ppb
Concentration per Run 2	52.438 ppb	49.354 ppb	48.116 ppb	58.766 ppb	5,144.621 ppb	47.902 ppb	48.364 ppb	47.422 ppb	50.633 ppb
Concentration per Run 3	51.312 ppb	49.701 ppb	49.973 ppb	56.802 ppb	5,148.636 ppb	49.521 ppb	50.081 ppb	50.225 ppb	53.816 ppb
Concentration RSD	2.8 %	3.6 %	3.2 %	1.8 %	1.5 %	1.7 %	2.4 %	2.9 %	3.1 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	131.475 %	50.669 ppb	54.191 ppb	60.982 ppb	51.544 ppb	121.352 %	1.316 ppb	51.537 ppb	136.197 %
Concentration per Run 1	132.685 %	51.199 ppb	53.003 ppb	59.429 ppb	49.758 ppb	123.711 %	1.323 ppb	51.214 ppb	136.360 %
Concentration per Run 2	135.851 %	50.538 ppb	56.160 ppb	62.259 ppb	51.027 ppb	122.944 %	1.311 ppb	51.035 ppb	142.617 %
Concentration per Run 3	125.888 %	50.269 ppb	53.410 ppb	61.260 ppb	53.848 ppb	117.402 %	1.313 ppb	52.363 ppb	129.614 %
Concentration RSD	3.9 %	0.9 %	3.2 %	2.4 %	4.1 %	2.8 %	0.5 %	1.4 %	4.8 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	52.962 ppb	57.113 ppb	56.021 ppb	131.572 %	137.327 %	40.786 ppb	49.920 ppb	51.695 ppb	126.479 %
Concentration per Run 1	52.723 ppb	56.004 ppb	55.733 ppb	133.549 %	138.440 %	40.898 ppb	48.602 ppb	50.473 ppb	128.938 %
Concentration per Run 2	51.997 ppb	56.066 ppb	55.339 ppb	134.101 %	141.597 %	39.276 ppb	48.796 ppb	50.588 ppb	128.813 %
Concentration per Run 3	54.167 ppb	59.270 ppb	56.990 ppb	127.066 %	131.944 %	42.185 ppb	52.362 ppb	54.023 ppb	121.686 %
Concentration RSD	2.1 %	3.3 %	1.5 %	3.0 %	3.6 %	3.6 %	4.2 %	3.9 %	3.3 %

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Analysis label: L2046825-05 6020TL
Analysis started at: 10/29/2020 7:31:42 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	139.577 %	161.434 %	0.018 ppb	8,489.686 ppb	2,202.344 ppb	24.650 ppb	2,063.623 ppb	8,642.832 ppb	137.952 %
Concentration per Run 1	143.837 %	164.246 %	0.021 ppb	8,187.739 ppb	2,131.518 ppb	22.144 ppb	1,930.052 ppb	8,378.834 ppb	139.616 %
Concentration per Run 2	138.988 %	167.747 %	0.018 ppb	8,405.327 ppb	2,140.840 ppb	26.113 ppb	2,139.864 ppb	8,785.290 ppb	138.215 %
Concentration per Run 3	135.906 %	152.309 %	0.014 ppb	8,875.991 ppb	2,334.673 ppb	25.692 ppb	2,120.952 ppb	8,764.371 ppb	136.024 %
Concentration RSD	2.9 %	5.0 %	21.5 %	4.1 %	5.2 %	8.8 %	5.6 %	2.6 %	1.3 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	13.089 ppb	0.085 ppb	0.688 ppb	58.459 ppb	34.978 ppb	0.031 ppb	0.307 ppb	0.057 ppb	1.455 ppb
Concentration per Run 1	12.981 ppb	0.105 ppb	0.700 ppb	56.885 ppb	34.075 ppb	0.032 ppb	0.349 ppb	0.107 ppb	1.492 ppb
Concentration per Run 2	13.426 ppb	0.107 ppb	0.642 ppb	58.086 ppb	31.216 ppb	0.027 ppb	0.304 ppb	0.063 ppb	1.397 ppb
Concentration per Run 3	12.860 ppb	0.045 ppb	0.723 ppb	60.405 ppb	39.642 ppb	0.033 ppb	0.268 ppb	0.000 ppb	1.477 ppb
Concentration RSD	2.3 %	41.4 %	6.0 %	3.1 %	12.2 %	11.0 %	13.2 %	95.1 %	3.5 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	135.429 %	0.146 ppb	0.446 ppb	61.657 ppb	1.145 ppb	123.970 %	0.003 ppb	0.047 ppb	139.977 %
Concentration per Run 1	134.356 %	0.154 ppb	0.517 ppb	60.218 ppb	0.915 ppb	125.359 %	0.002 ppb	0.047 ppb	139.437 %
Concentration per Run 2	142.537 %	0.143 ppb	0.412 ppb	63.224 ppb	1.181 ppb	126.048 %	0.004 ppb	0.053 ppb	148.749 %
Concentration per Run 3	129.395 %	0.140 ppb	0.409 ppb	61.529 ppb	1.339 ppb	120.502 %	0.002 ppb	0.041 ppb	131.744 %
Concentration RSD	4.9 %	5.0 %	13.8 %	2.4 %	18.7 %	2.4 %	48.0 %	13.4 %	6.1 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.626 ppb	0.857 ppb	28.213 ppb	133.846 %	138.733 %	1.049 ppb	0.549 ppb	0.091 ppb	130.431 %
Concentration per Run 1	1.428 ppb	0.723 ppb	27.914 ppb	134.209 %	139.380 %	0.856 ppb	0.552 ppb	0.086 ppb	131.661 %
Concentration per Run 2	1.566 ppb	0.882 ppb	27.568 ppb	138.281 %	143.854 %	1.005 ppb	0.544 ppb	0.085 ppb	133.344 %
Concentration per Run 3	1.884 ppb	0.966 ppb	29.158 ppb	129.049 %	132.966 %	1.287 ppb	0.551 ppb	0.102 ppb	126.290 %
Concentration RSD	14.4 %	14.4 %	3.0 %	3.5 %	3.9 %	20.9 %	0.8 %	10.4 %	2.8 %

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Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	152.972 %	168.755 %	0.009 ppb	15,568.661 ppb	77,585.350 ppb	136.154 ppb	2,725.866 ppb	567,911.387 ppb	143.333 %
Concentration per Run 1	157.046 %	174.591 %	0.017 ppb	14,963.542 ppb	74,516.958 ppb	128.872 ppb	2,607.197 ppb	546,421.497 ppb	145.450 %
Concentration per Run 2	151.968 %	164.564 %	0.004 ppb	16,238.642 ppb	81,784.085 ppb	151.177 ppb	2,906.312 ppb	600,330.504 ppb	141.189 %
Concentration per Run 3	149.901 %	167.111 %	0.007 ppb	15,503.800 ppb	76,455.006 ppb	128.413 ppb	2,664.090 ppb	556,982.159 ppb	143.359 %
Concentration RSD	2.4 %	3.1 %	72.1 %	4.1 %	4.9 %	9.6 %	5.8 %	5.0 %	1.5 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	853.710 ppb	0.265 ppb	1.029 ppb	140.162 ppb	207.177 ppb	0.602 ppb	0.673 ppb	0.285 ppb	0.507 ppb
Concentration per Run 1	815.930 ppb	0.238 ppb	0.934 ppb	131.445 ppb	203.563 ppb	0.576 ppb	0.778 ppb	0.269 ppb	0.558 ppb
Concentration per Run 2	903.231 ppb	0.293 ppb	1.019 ppb	148.724 ppb	209.975 ppb	0.575 ppb	0.499 ppb	0.273 ppb	0.523 ppb
Concentration per Run 3	841.970 ppb	0.264 ppb	1.135 ppb	140.317 ppb	207.992 ppb	0.655 ppb	0.741 ppb	0.312 ppb	0.441 ppb
Concentration RSD	5.2 %	10.3 %	9.8 %	6.2 %	1.6 %	7.7 %	22.5 %	8.3 %	11.9 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	128.288 %	0.366 ppb	0.038 ppb	16,246.667 ppb	2.060 ppb	115.072 %	0.001 ppb	0.005 ppb	137.161 %
Concentration per Run 1	130.007 %	0.404 ppb	-0.017 ppb	15,755.990 ppb	1.852 ppb	116.048 %	-0.001 ppb	0.002 ppb	136.776 %
Concentration per Run 2	129.792 %	0.348 ppb	0.117 ppb	16,623.784 ppb	2.130 ppb	113.169 %	0.003 ppb	0.002 ppb	136.250 %
Concentration per Run 3	125.065 %	0.347 ppb	0.014 ppb	16,360.226 ppb	2.199 ppb	116.001 %	0.001 ppb	0.011 ppb	138.457 %
Concentration RSD	2.2 %	8.9 %	182.8 %	2.7 %	8.9 %	1.4 %	241.1 %	98.3 %	0.8 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.850 ppb	0.500 ppb	9.978 ppb	119.455 %	121.510 %	0.407 ppb	0.206 ppb	0.062 ppb	111.053 %
Concentration per Run 1	0.651 ppb	0.445 ppb	9.955 ppb	120.426 %	122.158 %	0.279 ppb	0.179 ppb	0.070 ppb	112.558 %
Concentration per Run 2	0.933 ppb	0.523 ppb	10.384 ppb	117.553 %	120.473 %	0.416 ppb	0.218 ppb	0.059 ppb	108.628 %
Concentration per Run 3	0.967 ppb	0.532 ppb	9.594 ppb	120.388 %	121.898 %	0.525 ppb	0.220 ppb	0.057 ppb	111.972 %
Concentration RSD	20.4 %	9.6 %	4.0 %	1.4 %	0.7 %	30.3 %	11.2 %	11.9 %	1.9 %

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Analysis label: L2046750-05 6020TL
Analysis started at: 10/29/2020 7:41:54 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	141.359 %	169.869 %	0.008 ppb	17,287.110 ppb	59,858.625 ppb	118.279 ppb	2,654.005 ppb	602,524.388 ppb	128.952 %
Concentration per Run 1	142.874 %	171.567 %	0.016 ppb	16,646.801 ppb	57,980.389 ppb	114.277 ppb	2,599.887 ppb	579,439.000 ppb	128.366 %
Concentration per Run 2	140.377 %	169.975 %	0.002 ppb	17,439.676 ppb	60,586.913 ppb	120.790 ppb	2,695.810 ppb	623,110.890 ppb	128.212 %
Concentration per Run 3	140.826 %	168.066 %	0.007 ppb	17,774.854 ppb	61,008.574 ppb	119.769 ppb	2,666.320 ppb	605,023.274 ppb	130.277 %
Concentration RSD	0.9 %	1.0 %	85.5 %	3.4 %	2.7 %	3.0 %	1.9 %	3.6 %	0.9 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	918.784 ppb	0.186 ppb	0.978 ppb	40.586 ppb	562.339 ppb	0.273 ppb	0.637 ppb	0.134 ppb	0.792 ppb
Concentration per Run 1	891.578 ppb	0.121 ppb	0.942 ppb	38.458 ppb	538.218 ppb	0.261 ppb	0.619 ppb	0.183 ppb	0.707 ppb
Concentration per Run 2	936.317 ppb	0.173 ppb	0.983 ppb	41.888 ppb	579.041 ppb	0.253 ppb	0.636 ppb	0.101 ppb	0.829 ppb
Concentration per Run 3	928.455 ppb	0.264 ppb	1.010 ppb	41.413 ppb	569.759 ppb	0.306 ppb	0.656 ppb	0.118 ppb	0.840 ppb
Concentration RSD	2.6 %	38.9 %	3.5 %	4.6 %	3.8 %	10.4 %	2.9 %	32.4 %	9.3 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	124.040 %	0.416 ppb	0.006 ppb	15,891.412 ppb	1.629 ppb	112.640 %	0.001 ppb	0.006 ppb	135.303 %
Concentration per Run 1	125.679 %	0.434 ppb	0.041 ppb	15,680.929 ppb	1.329 ppb	115.567 %	0.001 ppb	0.011 ppb	138.608 %
Concentration per Run 2	121.897 %	0.434 ppb	-0.066 ppb	15,815.040 ppb	1.762 ppb	109.899 %	0.001 ppb	0.002 ppb	130.815 %
Concentration per Run 3	124.544 %	0.379 ppb	0.043 ppb	16,178.268 ppb	1.797 ppb	112.454 %	-0.001 ppb	0.005 ppb	136.486 %
Concentration RSD	1.6 %	7.6 %	1,035.9 %	1.6 %	16.0 %	2.5 %	156.6 %	76.1 %	3.0 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.556 ppb	0.316 ppb	7.207 ppb	116.194 %	117.230 %	0.210 ppb	0.117 ppb	0.046 ppb	109.915 %
Concentration per Run 1	0.378 ppb	0.265 ppb	7.001 ppb	118.915 %	120.178 %	0.142 ppb	0.107 ppb	0.050 ppb	111.393 %
Concentration per Run 2	0.593 ppb	0.374 ppb	7.079 ppb	113.283 %	113.399 %	0.216 ppb	0.115 ppb	0.043 ppb	108.671 %
Concentration per Run 3	0.697 ppb	0.310 ppb	7.540 ppb	116.385 %	118.112 %	0.272 ppb	0.129 ppb	0.045 ppb	109.682 %
Concentration RSD	29.2 %	17.4 %	4.0 %	2.4 %	3.0 %	31.1 %	9.8 %	8.1 %	1.3 %

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Analysis label: L2046750-07 6020TL
Analysis started at: 10/29/2020 7:47:01 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	141.761 %	158.675 %	0.001 ppb	10,465.050 ppb	55,287.316 ppb	11.515 ppb	2,185.581 ppb	530,072.852 ppb	131.411 %
Concentration per Run 1	145.634 %	160.903 %	0.007 ppb	10,807.849 ppb	57,728.928 ppb	12.438 ppb	2,319.620 ppb	548,527.097 ppb	133.118 %
Concentration per Run 2	140.865 %	156.447 %	-0.003 ppb	10,228.718 ppb	53,751.952 ppb	10.683 ppb	2,112.145 ppb	517,931.681 ppb	130.678 %
Concentration per Run 3	138.783 %	158.675 %	-0.003 ppb	10,358.582 ppb	54,381.067 ppb	11.425 ppb	2,124.979 ppb	523,759.779 ppb	130.437 %
Concentration RSD	2.5 %	1.4 %	779.4 %	2.9 %	3.9 %	7.6 %	5.3 %	3.1 %	1.1 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	807.522 ppb	0.031 ppb	0.826 ppb	71.976 ppb	38.111 ppb	0.449 ppb	0.695 ppb	0.175 ppb	0.314 ppb
Concentration per Run 1	833.046 ppb	0.020 ppb	0.813 ppb	73.674 ppb	40.003 ppb	0.429 ppb	0.542 ppb	0.136 ppb	0.271 ppb
Concentration per Run 2	785.072 ppb	0.024 ppb	0.902 ppb	69.902 ppb	36.120 ppb	0.485 ppb	0.729 ppb	0.165 ppb	0.389 ppb
Concentration per Run 3	804.448 ppb	0.048 ppb	0.763 ppb	72.352 ppb	38.211 ppb	0.433 ppb	0.815 ppb	0.225 ppb	0.283 ppb
Concentration RSD	3.0 %	48.7 %	8.5 %	2.7 %	5.1 %	6.9 %	20.1 %	25.7 %	20.6 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	122.870 %	0.311 ppb	-0.021 ppb	16,220.343 ppb	1.670 ppb	112.774 %	0.001 ppb	0.001 ppb	133.864 %
Concentration per Run 1	126.321 %	0.351 ppb	0.013 ppb	16,838.161 ppb	1.687 ppb	114.860 %	-0.001 ppb	0.002 ppb	141.072 %
Concentration per Run 2	121.125 %	0.283 ppb	-0.009 ppb	15,605.604 ppb	1.858 ppb	111.831 %	0.002 ppb	0.000 ppb	127.262 %
Concentration per Run 3	121.164 %	0.299 ppb	-0.066 ppb	16,217.264 ppb	1.466 ppb	111.631 %	0.000 ppb	0.000 ppb	133.257 %
Concentration RSD	2.4 %	11.4 %	198.0 %	3.8 %	11.8 %	1.6 %	206.3 %	173.2 %	5.2 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.515 ppb	0.237 ppb	14.021 ppb	115.893 %	116.590 %	0.140 ppb	0.088 ppb	0.032 ppb	110.458 %
Concentration per Run 1	0.342 ppb	0.224 ppb	13.979 ppb	118.501 %	121.077 %	0.069 ppb	0.081 ppb	0.031 ppb	112.714 %
Concentration per Run 2	0.545 ppb	0.242 ppb	14.150 ppb	114.113 %	112.371 %	0.146 ppb	0.089 ppb	0.032 ppb	108.510 %
Concentration per Run 3	0.658 ppb	0.244 ppb	13.934 ppb	115.066 %	116.323 %	0.205 ppb	0.095 ppb	0.034 ppb	110.149 %
Concentration RSD	31.1 %	4.7 %	0.8 %	2.0 %	3.7 %	48.7 %	8.4 %	3.5 %	1.9 %

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Analysis index: 147
Analysis label: L2046750-08 6020TL
Analysis started at: 10/29/2020 7:52:08 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	131.481 %	160.214 %	0.005 ppb	17,492.672 ppb	61,095.550 ppb	107.694 ppb	2,673.704 ppb	602,444.009 ppb	119.118 %
Concentration per Run 1	138.285 %	164.087 %	-0.003 ppb	17,797.707 ppb	62,825.035 ppb	113.271 ppb	2,718.828 ppb	613,499.133 ppb	124.338 %
Concentration per Run 2	126.826 %	158.516 %	0.005 ppb	17,170.668 ppb	59,692.273 ppb	100.957 ppb	2,650.389 ppb	595,696.671 ppb	114.276 %
Concentration per Run 3	129.331 %	158.039 %	0.012 ppb	17,509.640 ppb	60,769.341 ppb	108.855 ppb	2,651.894 ppb	598,136.224 ppb	118.740 %
Concentration RSD	4.6 %	2.1 %	150.1 %	1.8 %	2.6 %	5.8 %	1.5 %	1.6 %	4.2 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	923.384 ppb	0.165 ppb	1.045 ppb	39.943 ppb	572.573 ppb	0.277 ppb	0.620 ppb	0.074 ppb	0.418 ppb
Concentration per Run 1	946.894 ppb	0.149 ppb	1.056 ppb	39.498 ppb	578.573 ppb	0.251 ppb	0.687 ppb	0.030 ppb	0.486 ppb
Concentration per Run 2	908.577 ppb	0.259 ppb	1.065 ppb	40.380 ppb	566.102 ppb	0.317 ppb	0.511 ppb	0.117 ppb	0.407 ppb
Concentration per Run 3	914.681 ppb	0.087 ppb	1.015 ppb	39.950 ppb	573.045 ppb	0.262 ppb	0.661 ppb	0.076 ppb	0.360 ppb
Concentration RSD	2.2 %	52.9 %	2.6 %	1.1 %	1.1 %	12.9 %	15.3 %	58.4 %	15.3 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	121.059 %	0.408 ppb	-0.048 ppb	15,733.628 ppb	1.597 ppb	109.694 %	0.003 ppb	0.004 ppb	130.851 %
Concentration per Run 1	125.073 %	0.340 ppb	0.015 ppb	16,361.631 ppb	1.491 ppb	112.470 %	0.000 ppb	0.004 ppb	138.757 %
Concentration per Run 2	118.882 %	0.454 ppb	-0.036 ppb	15,038.339 ppb	1.683 ppb	107.667 %	0.004 ppb	0.000 ppb	123.781 %
Concentration per Run 3	119.221 %	0.429 ppb	-0.123 ppb	15,800.915 ppb	1.618 ppb	108.946 %	0.003 ppb	0.007 ppb	130.014 %
Concentration RSD	2.9 %	14.7 %	145.4 %	4.2 %	6.1 %	2.3 %	77.8 %	93.0 %	5.7 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.272 ppb	0.198 ppb	6.909 ppb	112.603 %	114.596 %	0.086 ppb	0.065 ppb	0.032 ppb	106.744 %
Concentration per Run 1	0.264 ppb	0.175 ppb	6.743 ppb	116.911 %	120.591 %	0.033 ppb	0.051 ppb	0.027 ppb	110.841 %
Concentration per Run 2	0.277 ppb	0.179 ppb	6.840 ppb	109.880 %	110.768 %	0.105 ppb	0.077 ppb	0.033 ppb	105.032 %
Concentration per Run 3	0.275 ppb	0.239 ppb	7.144 ppb	111.018 %	112.430 %	0.118 ppb	0.068 ppb	0.035 ppb	104.360 %
Concentration RSD	2.5 %	18.2 %	3.0 %	3.4 %	4.6 %	53.3 %	20.7 %	12.9 %	3.3 %

Alpha ICPMSQ Full

10/29/2020 9:29:56 PM

Analysis index: 148
Analysis label: L2046750-03D50 6020TL
Analysis started at: 10/29/2020 7:57:15 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	167.090 %	197.510 %	-0.003 ppb	75,548.852 ppb	4,692.862 ppb	2.013 ppb	2,539.651 ppb	22,057.660 ppb	157.543 %
Concentration per Run 1	168.332 %	201.330 %	0.003 ppb	75,514.392 ppb	4,623.597 ppb	1.548 ppb	2,568.093 ppb	22,521.654 ppb	153.220 %
Concentration per Run 2	165.266 %	196.714 %	-0.006 ppb	76,425.956 ppb	4,718.532 ppb	1.829 ppb	2,501.209 ppb	21,589.017 ppb	158.381 %
Concentration per Run 3	167.673 %	194.486 %	-0.007 ppb	74,706.206 ppb	4,736.458 ppb	2.662 ppb	2,549.652 ppb	22,062.310 ppb	161.028 %
Concentration RSD	1.0 %	1.8 %	164.4 %	1.1 %	1.3 %	28.8 %	1.4 %	2.1 %	2.5 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	31.594 ppb	0.023 ppb	0.206 ppb	2.770 ppb	41.791 ppb	0.023 ppb	0.757 ppb	0.145 ppb	2.021 ppb
Concentration per Run 1	32.495 ppb	-0.049 ppb	0.228 ppb	3.002 ppb	46.057 ppb	0.028 ppb	0.780 ppb	0.157 ppb	2.062 ppb
Concentration per Run 2	29.942 ppb	0.108 ppb	0.179 ppb	2.771 ppb	37.022 ppb	0.016 ppb	0.706 ppb	0.159 ppb	1.953 ppb
Concentration per Run 3	32.346 ppb	0.010 ppb	0.211 ppb	2.538 ppb	42.294 ppb	0.025 ppb	0.785 ppb	0.118 ppb	2.048 ppb
Concentration RSD	4.5 %	351.2 %	12.1 %	8.4 %	10.9 %	27.9 %	5.8 %	16.3 %	2.9 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	151.641 %	0.023 ppb	0.021 ppb	496.362 ppb	0.279 ppb	137.367 %	0.052 ppb	0.001 ppb	151.821 %
Concentration per Run 1	151.822 %	0.045 ppb	0.059 ppb	494.602 ppb	0.222 ppb	137.193 %	0.040 ppb	0.000 ppb	153.748 %
Concentration per Run 2	150.711 %	0.003 ppb	0.014 ppb	496.281 ppb	0.262 ppb	137.294 %	0.060 ppb	0.000 ppb	150.904 %
Concentration per Run 3	152.389 %	0.021 ppb	-0.010 ppb	498.201 ppb	0.353 ppb	137.613 %	0.056 ppb	0.002 ppb	150.812 %
Concentration RSD	0.6 %	92.8 %	165.2 %	0.4 %	24.1 %	0.2 %	19.7 %	173.2 %	1.1 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.338 ppb	0.164 ppb	0.408 ppb	146.322 %	149.114 %	0.032 ppb	0.045 ppb	0.013 ppb	129.927 %
Concentration per Run 1	0.313 ppb	0.134 ppb	0.433 ppb	145.997 %	150.422 %	-0.001 ppb	0.040 ppb	0.010 ppb	131.027 %
Concentration per Run 2	0.303 ppb	0.167 ppb	0.410 ppb	146.060 %	147.613 %	0.041 ppb	0.047 ppb	0.015 ppb	129.246 %
Concentration per Run 3	0.398 ppb	0.191 ppb	0.382 ppb	146.909 %	149.307 %	0.055 ppb	0.049 ppb	0.014 ppb	129.506 %
Concentration RSD	15.5 %	17.3 %	6.3 %	0.3 %	0.9 %	91.6 %	10.3 %	20.0 %	0.7 %

Alpha ICPMSQ Full

10/29/2020 9:29:56 PM

Analysis index: 149
Analysis label: WG1427762-14D5 6020TL
Analysis started at: 10/29/2020 8:02:21 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	142.284 %	161.010 %	0.001 ppb	1,700.366 ppb	434.701 ppb	5.138 ppb	403.492 ppb	1,647.907 ppb	140.119 %
Concentration per Run 1	143.288 %	161.381 %	0.000 ppb	1,656.335 ppb	419.800 ppb	4.757 ppb	405.575 ppb	1,533.948 ppb	138.742 %
Concentration per Run 2	141.975 %	163.132 %	0.002 ppb	1,730.090 ppb	440.193 ppb	5.172 ppb	417.270 ppb	1,716.324 ppb	141.446 %
Concentration per Run 3	141.589 %	158.516 %	0.003 ppb	1,714.672 ppb	444.109 ppb	5.485 ppb	387.633 ppb	1,693.447 ppb	140.167 %
Concentration RSD	0.6 %	1.4 %	114.6 %	2.3 %	3.0 %	7.1 %	3.7 %	6.0 %	1.0 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	2.354 ppb	0.053 ppb	0.124 ppb	11.411 ppb	5.898 ppb	0.007 ppb	0.048 ppb	0.017 ppb	0.303 ppb
Concentration per Run 1	2.366 ppb	-0.018 ppb	0.102 ppb	10.972 ppb	4.339 ppb	0.004 ppb	0.064 ppb	0.061 ppb	0.318 ppb
Concentration per Run 2	2.150 ppb	0.077 ppb	0.126 ppb	11.894 ppb	7.215 ppb	0.010 ppb	0.046 ppb	0.012 ppb	0.231 ppb
Concentration per Run 3	2.545 ppb	0.101 ppb	0.143 ppb	11.367 ppb	6.141 ppb	0.007 ppb	0.034 ppb	-0.023 ppb	0.359 ppb
Concentration RSD	8.4 %	118.9 %	16.4 %	4.1 %	24.6 %	48.4 %	31.5 %	255.9 %	21.7 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	139.360 %	0.025 ppb	0.010 ppb	11.761 ppb	0.094 ppb	128.288 %	0.000 ppb	0.008 ppb	139.627 %
Concentration per Run 1	134.474 %	0.043 ppb	0.056 ppb	11.552 ppb	0.064 ppb	125.294 %	-0.001 ppb	0.004 ppb	134.021 %
Concentration per Run 2	141.869 %	0.006 ppb	-0.050 ppb	12.030 ppb	0.133 ppb	129.585 %	0.000 ppb	0.008 ppb	142.600 %
Concentration per Run 3	141.738 %	0.026 ppb	0.023 ppb	11.699 ppb	0.083 ppb	129.985 %	0.001 ppb	0.010 ppb	142.261 %
Concentration RSD	3.0 %	74.7 %	571.0 %	2.1 %	38.1 %	2.0 %	1,376.1 %	39.7 %	3.5 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.215 ppb	0.137 ppb	5.616 ppb	134.219 %	136.964 %	0.000 ppb	0.050 ppb	0.012 ppb	132.974 %
Concentration per Run 1	0.172 ppb	0.127 ppb	5.854 ppb	130.603 %	133.272 %	-0.013 ppb	0.049 ppb	0.014 ppb	131.950 %
Concentration per Run 2	0.183 ppb	0.136 ppb	5.656 ppb	136.329 %	140.534 %	-0.004 ppb	0.050 ppb	0.011 ppb	134.455 %
Concentration per Run 3	0.289 ppb	0.147 ppb	5.339 ppb	135.726 %	137.086 %	0.018 ppb	0.050 ppb	0.011 ppb	132.516 %
Concentration RSD	30.2 %	7.4 %	4.6 %	2.3 %	2.7 %	3,598.2 %	1.6 %	14.9 %	1.0 %

Alpha ICPMSQ Full

10/29/2020 9:29:56 PM

Analysis index: 150 Analysis started at: 10/29/2020 8:07:28 PM
Analysis label: CCV User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	136.924 %	156.235 %	59.819 ppb	5,990.496 ppb	5,967.630 ppb	64.500 ppb	6,116.111 ppb	5,897.163 ppb	147.097 %
Concentration per Run 1	146.886 %	148.171 %	51.852 ppb	5,987.192 ppb	5,918.528 ppb	65.206 ppb	5,916.354 ppb	5,752.531 ppb	153.013 %
Concentration per Run 2	137.356 %	161.063 %	58.506 ppb	6,052.928 ppb	6,068.679 ppb	65.574 ppb	6,325.008 ppb	6,080.803 ppb	147.246 %
Concentration per Run 3	126.530 %	159.471 %	69.098 ppb	5,931.370 ppb	5,915.682 ppb	62.719 ppb	6,106.970 ppb	5,858.155 ppb	141.033 %
Recovery Percentage 1			99.698 %	99.842 %	99.460 %	107.499 %	101.935 %	98.286 %	
Concentration RSD	7.4 %	4.5 %	14.5 %	1.0 %	1.5 %	2.4 %	3.3 %	2.8 %	4.1 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	58.115 ppb	55.779 ppb	55.755 ppb	59.262 ppb	5,906.250 ppb	57.407 ppb	58.292 ppb	57.568 ppb	59.575 ppb
Concentration per Run 1	57.732 ppb	55.997 ppb	56.945 ppb	59.578 ppb	6,015.900 ppb	59.950 ppb	60.739 ppb	60.598 ppb	60.909 ppb
Concentration per Run 2	58.862 ppb	56.740 ppb	55.553 ppb	59.431 ppb	5,899.228 ppb	57.077 ppb	57.563 ppb	56.094 ppb	59.549 ppb
Concentration per Run 3	57.750 ppb	54.601 ppb	54.765 ppb	58.779 ppb	5,803.623 ppb	55.194 ppb	56.575 ppb	56.012 ppb	58.268 ppb
Recovery Percentage 1	96.858 %	92.965 %	92.924 %	98.771 %	98.438 %	95.678 %	97.154 %	95.947 %	99.292 %
Concentration RSD	1.1 %	1.9 %	2.0 %	0.7 %	1.8 %	4.2 %	3.7 %	4.6 %	2.2 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	129.689 %	60.687 ppb	61.705 ppb	63.765 ppb	58.902 ppb	124.290 %	59.098 ppb	59.945 ppb	135.521 %
Concentration per Run 1	123.380 %	62.040 ppb	60.256 ppb	63.310 ppb	60.844 ppb	123.095 %	60.534 ppb	61.073 ppb	130.563 %
Concentration per Run 2	133.641 %	60.461 ppb	61.090 ppb	64.203 ppb	58.938 ppb	126.332 %	58.142 ppb	58.860 ppb	139.901 %
Concentration per Run 3	132.046 %	59.561 ppb	63.770 ppb	63.781 ppb	56.926 ppb	123.442 %	58.618 ppb	59.901 ppb	136.101 %
Recovery Percentage 1		101.145 %	102.841 %	106.275 %	98.171 %		98.497 %	99.908 %	
Concentration RSD	4.3 %	2.1 %	3.0 %	0.7 %	3.3 %	1.4 %	2.1 %	1.8 %	3.5 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	60.263 ppb	58.869 ppb	60.098 ppb	131.764 %	134.672 %	57.473 ppb	58.842 ppb	59.373 ppb	127.220 %
Concentration per Run 1	61.453 ppb	59.581 ppb	59.858 ppb	128.599 %	129.009 %	60.928 ppb	60.306 ppb	60.265 ppb	123.519 %
Concentration per Run 2	59.916 ppb	58.923 ppb	59.760 ppb	134.861 %	140.217 %	55.630 ppb	58.276 ppb	58.751 ppb	130.647 %
Concentration per Run 3	59.418 ppb	58.104 ppb	60.676 ppb	131.833 %	134.791 %	55.862 ppb	57.945 ppb	59.104 ppb	127.493 %
Recovery Percentage 1	100.438 %	98.116 %	100.164 %			95.789 %	98.070 %	98.956 %	
Concentration RSD	1.8 %	1.3 %	0.8 %	2.4 %	4.2 %	5.2 %	2.2 %	1.3 %	2.8 %

Alpha ICPMSQ Full

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Analysis index: 151 Analysis started at: 10/29/2020 8:12:37 PM
Analysis label: CCB User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	137.901 %	159.896 %	0.001 ppb	-2.378 ppb	0.395 ppb	-0.142 ppb	-3.964 ppb	2.729 ppb	132.381 %
Concentration per Run 1	138.807 %	153.741 %	-0.001 ppb	-3.011 ppb	0.409 ppb	-0.002 ppb	-4.071 ppb	2.423 ppb	130.195 %
Concentration per Run 2	137.790 %	173.159 %	0.005 ppb	-3.572 ppb	0.092 ppb	-0.480 ppb	-7.371 ppb	0.924 ppb	133.683 %
Concentration per Run 3	137.107 %	152.787 %	-0.001 ppb	-0.551 ppb	0.685 ppb	0.055 ppb	-0.451 ppb	4.841 ppb	133.265 %
Recovery Percentage 1			0.144 %	-2.378 %	0.565 %	-1.423 %	-3.964 %	2.729 %	
Concentration RSD	0.6 %	7.2 %	519.6 %	67.6 %	75.1 %	206.2 %	87.3 %	72.4 %	1.4 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.273 ppb	-0.001 ppb	0.005 ppb	0.055 ppb	27.398 ppb	0.000 ppb	0.002 ppb	0.012 ppb	0.084 ppb
Concentration per Run 1	0.262 ppb	-0.027 ppb	-0.014 ppb	0.043 ppb	27.358 ppb	0.000 ppb	0.026 ppb	0.019 ppb	0.076 ppb
Concentration per Run 2	0.327 ppb	0.014 ppb	0.004 ppb	0.078 ppb	29.266 ppb	0.000 ppb	-0.004 ppb	0.007 ppb	0.039 ppb
Concentration per Run 3	0.229 ppb	0.010 ppb	0.026 ppb	0.044 ppb	25.569 ppb	0.000 ppb	-0.016 ppb	0.010 ppb	0.138 ppb
Recovery Percentage 1	54.541 %	-0.020 %	0.521 %	5.475 %	54.795 %	0.000 %	0.098 %	1.197 %	0.845 %
Concentration RSD	18.3 %	2,228.2 %	387.2 %	36.6 %	6.7 %	N/A	1,104.7 %	51.6 %	59.5 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	129.493 %	0.068 ppb	0.117 ppb	0.024 ppb	0.819 ppb	123.594 %	0.005 ppb	0.001 ppb	134.227 %
Concentration per Run 1	129.510 %	0.068 ppb	0.167 ppb	0.018 ppb	0.590 ppb	126.776 %	0.002 ppb	0.000 ppb	136.547 %
Concentration per Run 2	131.658 %	0.059 ppb	-0.045 ppb	0.030 ppb	0.906 ppb	125.085 %	0.008 ppb	0.002 ppb	135.611 %
Concentration per Run 3	127.312 %	0.078 ppb	0.228 ppb	0.025 ppb	0.960 ppb	118.922 %	0.004 ppb	0.000 ppb	130.524 %
Recovery Percentage 1		13.669 %	2.336 %	4.805 %	40.936 %		1.135 %	0.366 %	
Concentration RSD	1.7 %	13.4 %	122.7 %	26.1 %	24.4 %	3.3 %	66.8 %	173.2 %	2.4 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.911 ppb	0.137 ppb	0.048 ppb	128.514 %	131.648 %	1.010 ppb	0.440 ppb	0.031 ppb	127.866 %
Concentration per Run 1	0.733 ppb	0.100 ppb	0.008 ppb	131.575 %	133.863 %	0.826 ppb	0.434 ppb	0.028 ppb	130.518 %
Concentration per Run 2	0.971 ppb	0.123 ppb	0.062 ppb	130.019 %	133.291 %	1.004 ppb	0.437 ppb	0.028 ppb	128.566 %
Concentration per Run 3	1.028 ppb	0.188 ppb	0.073 ppb	123.947 %	127.789 %	1.199 ppb	0.451 ppb	0.036 ppb	124.513 %
Recovery Percentage 1	30.350 %	3.422 %	9.547 %			50.487 %	88.096 %	3.065 %	
Concentration RSD	17.1 %	33.5 %	72.4 %	3.1 %	2.5 %	18.5 %	2.0 %	15.3 %	2.4 %

Alpha ICPMSQ Full

10/29/2020 9:29:56 PM

Analysis index: 152
Analysis label: WG1427575-1 CT-6020TL
Analysis started at: 10/29/2020 8:17:46 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	138.048 %	163.662 %	-0.004 ppb	-0.977 ppb	0.286 ppb	-0.479 ppb	-2.805 ppb	1.122 ppb	112.330 %
Concentration per Run 1	142.802 %	158.198 %	-0.005 ppb	-1.060 ppb	1.150 ppb	-0.271 ppb	-0.531 ppb	2.217 ppb	117.017 %
Concentration per Run 2	136.068 %	164.723 %	-0.007 ppb	-1.166 ppb	-0.144 ppb	-0.423 ppb	-5.845 ppb	-2.222 ppb	109.969 %
Concentration per Run 3	135.273 %	168.066 %	0.000 ppb	-0.705 ppb	-0.147 ppb	-0.741 ppb	-2.039 ppb	3.369 ppb	110.003 %
Concentration RSD	3.0 %	3.1 %	83.3 %	24.7 %	261.2 %	50.2 %	97.6 %	263.2 %	3.6 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.026 ppb	-0.013 ppb	-0.016 ppb	0.013 ppb	1.370 ppb	0.001 ppb	-0.014 ppb	-0.049 ppb	-0.303 ppb
Concentration per Run 1	0.009 ppb	-0.053 ppb	-0.011 ppb	0.013 ppb	0.982 ppb	0.000 ppb	-0.018 ppb	-0.058 ppb	-0.245 ppb
Concentration per Run 2	0.025 ppb	-0.020 ppb	-0.008 ppb	0.013 ppb	0.381 ppb	0.000 ppb	-0.018 ppb	-0.040 ppb	-0.349 ppb
Concentration per Run 3	0.042 ppb	0.035 ppb	-0.030 ppb	0.013 ppb	2.745 ppb	0.003 ppb	-0.005 ppb	-0.049 ppb	-0.316 ppb
Concentration RSD	63.9 %	352.4 %	72.3 %	1.0 %	89.7 %	173.2 %	57.0 %	18.2 %	17.7 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	137.629 %	0.030 ppb	0.086 ppb	0.009 ppb	0.163 ppb	127.870 %	0.000 ppb	0.000 ppb	140.075 %
Concentration per Run 1	139.170 %	0.000 ppb	0.000 ppb	0.014 ppb	0.142 ppb	130.678 %	-0.001 ppb	0.000 ppb	142.007 %
Concentration per Run 2	137.959 %	0.055 ppb	0.002 ppb	0.008 ppb	0.215 ppb	126.140 %	0.001 ppb	0.000 ppb	138.969 %
Concentration per Run 3	135.757 %	0.036 ppb	0.257 ppb	0.006 ppb	0.131 ppb	126.793 %	0.000 ppb	0.000 ppb	139.250 %
Concentration RSD	1.3 %	91.3 %	171.0 %	49.4 %	28.4 %	1.9 %	394.3 %	N/A	1.2 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.097 ppb	0.026 ppb	0.053 ppb	130.643 %	133.588 %	0.205 ppb	0.005 ppb	-0.002 ppb	129.181 %
Concentration per Run 1	-0.139 ppb	0.011 ppb	0.075 ppb	132.229 %	134.912 %	0.149 ppb	0.007 ppb	-0.001 ppb	128.898 %
Concentration per Run 2	-0.075 ppb	0.030 ppb	0.023 ppb	128.967 %	131.788 %	0.213 ppb	0.003 ppb	-0.002 ppb	128.606 %
Concentration per Run 3	-0.076 ppb	0.037 ppb	0.061 ppb	130.733 %	134.063 %	0.253 ppb	0.006 ppb	-0.003 ppb	130.039 %
Concentration RSD	37.8 %	50.7 %	49.9 %	1.2 %	1.2 %	25.6 %	45.7 %	47.4 %	0.6 %

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Analysis index: 153
Analysis label: WG1427575-2D5 CT-6020TL
Analysis started at: 10/29/2020 8:22:53 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	143.245 %	167.641 %	13.205 ppb	2,102.801 ppb	2,148.968 ppb	434.371 ppb	2,172.928 ppb	2,012.807 ppb	145.624 %
Concentration per Run 1	144.288 %	167.747 %	12.745 ppb	2,113.916 ppb	2,166.534 ppb	435.595 ppb	2,203.381 ppb	2,020.134 ppb	145.359 %
Concentration per Run 2	144.622 %	167.429 %	13.239 ppb	2,113.669 ppb	2,162.287 ppb	438.327 ppb	2,144.714 ppb	2,030.912 ppb	146.248 %
Concentration per Run 3	140.826 %	167.747 %	13.631 ppb	2,080.817 ppb	2,118.084 ppb	429.190 ppb	2,170.689 ppb	1,987.375 ppb	145.265 %
Concentration RSD	1.5 %	0.1 %	3.4 %	0.9 %	1.2 %	1.1 %	1.4 %	1.1 %	0.4 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	168.257 ppb	93.136 ppb	36.714 ppb	96.255 ppb	205.422 ppb	95.251 ppb	93.898 ppb	48.734 ppb	110.303 ppb
Concentration per Run 1	166.679 ppb	94.427 ppb	37.358 ppb	97.375 ppb	203.289 ppb	96.318 ppb	98.267 ppb	49.429 ppb	112.402 ppb
Concentration per Run 2	169.084 ppb	93.235 ppb	36.541 ppb	94.995 ppb	203.381 ppb	95.047 ppb	92.034 ppb	47.992 ppb	109.810 ppb
Concentration per Run 3	169.009 ppb	91.747 ppb	36.244 ppb	96.393 ppb	209.596 ppb	94.389 ppb	91.394 ppb	48.781 ppb	108.697 ppb
Concentration RSD	0.8 %	1.4 %	1.6 %	1.2 %	1.8 %	1.0 %	4.0 %	1.5 %	1.7 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	141.174 %	25.465 ppb	27.137 ppb	216.823 ppb	193.381 ppb	130.563 %	10.279 ppb	10.897 ppb	142.264 %
Concentration per Run 1	138.561 %	26.160 ppb	27.290 ppb	218.215 ppb	195.105 ppb	133.184 %	10.247 ppb	10.965 ppb	142.228 %
Concentration per Run 2	140.768 %	25.382 ppb	27.845 ppb	216.360 ppb	194.377 ppb	129.607 %	10.321 ppb	11.012 ppb	142.848 %
Concentration per Run 3	144.194 %	24.853 ppb	26.275 ppb	215.895 ppb	190.661 ppb	128.898 %	10.268 ppb	10.713 ppb	141.715 %
Concentration RSD	2.0 %	2.6 %	2.9 %	0.6 %	1.2 %	1.8 %	0.4 %	1.5 %	0.4 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	191.095 ppb	93.468 ppb	408.515 ppb	136.330 %	140.362 %	1.124 ppb	24.697 ppb	110.220 ppb	132.485 %
Concentration per Run 1	191.535 ppb	93.014 ppb	408.131 ppb	137.199 %	140.800 %	0.803 ppb	24.503 ppb	110.549 ppb	133.409 %
Concentration per Run 2	190.885 ppb	92.939 ppb	409.667 ppb	134.369 %	139.405 %	1.169 ppb	24.850 ppb	109.980 ppb	131.581 %
Concentration per Run 3	190.864 ppb	94.450 ppb	407.747 ppb	137.424 %	140.880 %	1.402 ppb	24.739 ppb	110.131 ppb	132.465 %
Concentration RSD	0.2 %	0.9 %	0.2 %	1.2 %	0.6 %	26.8 %	0.7 %	0.3 %	0.7 %

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Analysis index: 154
Analysis label: L2046286-01 CT-6020TL
Analysis started at: 10/29/2020 8:28:00 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	145.604 %	171.620 %	0.435 ppb	5,937.340 ppb	1,794.823 ppb	342.820 ppb	2,245.415 ppb	7,322.597 ppb	143.920 %
Concentration per Run 1	155.160 %	171.249 %	0.425 ppb	5,872.483 ppb	1,787.035 ppb	336.946 ppb	2,204.774 ppb	7,372.414 ppb	151.790 %
Concentration per Run 2	145.762 %	170.612 %	0.432 ppb	6,062.089 ppb	1,829.637 ppb	350.160 ppb	2,283.515 ppb	7,276.484 ppb	141.870 %
Concentration per Run 3	135.889 %	172.999 %	0.448 ppb	5,877.448 ppb	1,767.798 ppb	341.354 ppb	2,247.955 ppb	7,318.891 ppb	138.101 %
Concentration RSD	6.6 %	0.7 %	2.8 %	1.8 %	1.8 %	2.0 %	1.8 %	0.7 %	4.9 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	13.666 ppb	0.338 ppb	0.635 ppb	149.793 ppb	111.345 ppb	0.747 ppb	3.115 ppb	1.421 ppb	26.109 ppb
Concentration per Run 1	13.078 ppb	0.341 ppb	0.677 ppb	147.908 ppb	106.716 ppb	0.683 ppb	3.176 ppb	1.505 ppb	26.109 ppb
Concentration per Run 2	14.472 ppb	0.295 ppb	0.605 ppb	152.499 ppb	111.948 ppb	0.793 ppb	3.261 ppb	1.308 ppb	26.175 ppb
Concentration per Run 3	13.447 ppb	0.379 ppb	0.622 ppb	148.972 ppb	115.371 ppb	0.764 ppb	2.908 ppb	1.450 ppb	26.044 ppb
Concentration RSD	5.3 %	12.5 %	6.0 %	1.6 %	3.9 %	7.7 %	5.9 %	7.2 %	0.2 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	143.299 %	0.226 ppb	0.382 ppb	53.828 ppb	2.534 ppb	133.029 %	0.015 ppb	0.103 ppb	148.102 %
Concentration per Run 1	142.321 %	0.195 ppb	0.433 ppb	53.408 ppb	2.145 ppb	133.297 %	0.013 ppb	0.096 ppb	146.844 %
Concentration per Run 2	144.240 %	0.243 ppb	0.331 ppb	54.026 ppb	2.545 ppb	132.339 %	0.021 ppb	0.101 ppb	149.168 %
Concentration per Run 3	143.336 %	0.239 ppb	0.381 ppb	54.050 ppb	2.913 ppb	133.450 %	0.013 ppb	0.113 ppb	148.295 %
Concentration RSD	0.7 %	11.8 %	13.3 %	0.7 %	15.2 %	0.5 %	29.7 %	8.7 %	0.8 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	4.235 ppb	3.137 ppb	37.098 ppb	139.184 %	142.480 %	1.121 ppb	0.304 ppb	0.227 ppb	136.639 %
Concentration per Run 1	3.749 ppb	3.051 ppb	36.745 ppb	138.357 %	141.164 %	1.035 ppb	0.264 ppb	0.228 ppb	135.690 %
Concentration per Run 2	4.321 ppb	3.182 ppb	37.034 ppb	139.900 %	143.495 %	1.125 ppb	0.305 ppb	0.234 ppb	138.084 %
Concentration per Run 3	4.636 ppb	3.177 ppb	37.514 ppb	139.295 %	142.782 %	1.204 ppb	0.343 ppb	0.220 ppb	136.143 %
Concentration RSD	10.6 %	2.4 %	1.0 %	0.6 %	0.8 %	7.5 %	13.0 %	3.0 %	0.9 %

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Analysis index: 155
Analysis label: L2046825-01 6020TL
Analysis started at: 10/29/2020 8:33:06 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	139.830 %	166.792 %	0.007 ppb	6,243.118 ppb	7,107.361 ppb	83.934 ppb	3,082.839 ppb	46,620.863 ppb	136.691 %
Concentration per Run 1	149.600 %	165.678 %	0.008 ppb	6,318.677 ppb	7,197.783 ppb	84.886 ppb	3,023.682 ppb	46,631.059 ppb	143.642 %
Concentration per Run 2	138.152 %	163.609 %	0.004 ppb	6,314.900 ppb	7,270.426 ppb	84.083 ppb	3,161.479 ppb	47,179.081 ppb	136.145 %
Concentration per Run 3	131.739 %	171.090 %	0.008 ppb	6,095.776 ppb	6,853.876 ppb	82.833 ppb	3,063.357 ppb	46,052.449 ppb	130.287 %
Concentration RSD	6.5 %	2.3 %	36.5 %	2.0 %	3.1 %	1.2 %	2.3 %	1.2 %	4.9 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	67.838 ppb	0.183 ppb	0.869 ppb	6,280.330 ppb	110.133 ppb	0.086 ppb	0.384 ppb	0.473 ppb	2.964 ppb
Concentration per Run 1	68.845 ppb	0.258 ppb	0.874 ppb	6,222.881 ppb	111.915 ppb	0.126 ppb	0.318 ppb	0.377 ppb	3.143 ppb
Concentration per Run 2	68.371 ppb	0.127 ppb	0.912 ppb	6,362.933 ppb	111.043 ppb	0.053 ppb	0.456 ppb	0.526 ppb	2.837 ppb
Concentration per Run 3	66.298 ppb	0.165 ppb	0.823 ppb	6,255.176 ppb	107.441 ppb	0.080 ppb	0.380 ppb	0.516 ppb	2.912 ppb
Concentration RSD	2.0 %	36.9 %	5.1 %	1.2 %	2.2 %	43.0 %	18.0 %	17.6 %	5.4 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	136.119 %	0.277 ppb	0.232 ppb	130.591 ppb	0.649 ppb	123.938 %	0.004 ppb	0.097 ppb	139.550 %
Concentration per Run 1	136.104 %	0.357 ppb	0.232 ppb	131.762 ppb	0.612 ppb	123.115 %	0.000 ppb	0.103 ppb	137.667 %
Concentration per Run 2	135.290 %	0.269 ppb	0.233 ppb	130.240 ppb	0.564 ppb	124.816 %	0.008 ppb	0.104 ppb	142.240 %
Concentration per Run 3	136.964 %	0.205 ppb	0.230 ppb	129.770 ppb	0.772 ppb	123.882 %	0.005 ppb	0.085 ppb	138.741 %
Concentration RSD	0.6 %	27.5 %	0.8 %	0.8 %	16.8 %	0.7 %	86.0 %	11.2 %	1.7 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.566 ppb	1.088 ppb	54.019 ppb	135.001 %	138.532 %	0.183 ppb	0.240 ppb	0.171 ppb	127.054 %
Concentration per Run 1	1.461 ppb	1.016 ppb	54.602 ppb	133.806 %	138.689 %	0.108 ppb	0.226 ppb	0.167 ppb	126.879 %
Concentration per Run 2	1.518 ppb	1.155 ppb	52.975 ppb	135.766 %	139.032 %	0.174 ppb	0.234 ppb	0.169 ppb	128.151 %
Concentration per Run 3	1.720 ppb	1.093 ppb	54.480 ppb	135.430 %	137.876 %	0.268 ppb	0.261 ppb	0.176 ppb	126.132 %
Concentration RSD	8.7 %	6.4 %	1.7 %	0.8 %	0.4 %	43.8 %	7.4 %	2.7 %	0.8 %

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Analysis index: 156
Analysis label: L2046825-02 6020TL
Analysis started at: 10/29/2020 8:38:13 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	150.115 %	179.525 %	0.001 ppb	10,517.668 ppb	9,554.553 ppb	59.338 ppb	3,841.786 ppb	85,216.051 ppb	151.408 %
Concentration per Run 1	153.500 %	176.819 %	0.003 ppb	10,877.142 ppb	9,972.001 ppb	60.809 ppb	3,974.009 ppb	88,795.966 ppb	153.293 %
Concentration per Run 2	148.567 %	182.708 %	0.001 ppb	10,483.653 ppb	9,554.726 ppb	62.457 ppb	3,830.242 ppb	86,027.479 ppb	150.028 %
Concentration per Run 3	148.276 %	179.048 %	0.000 ppb	10,192.210 ppb	9,136.933 ppb	54.749 ppb	3,721.107 ppb	80,824.707 ppb	150.902 %
Concentration RSD	2.0 %	1.7 %	152.8 %	3.3 %	4.4 %	6.8 %	3.3 %	4.7 %	1.1 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	121.841 ppb	0.201 ppb	0.955 ppb	4.563 ppb	91.734 ppb	0.196 ppb	0.341 ppb	0.443 ppb	0.753 ppb
Concentration per Run 1	127.141 ppb	0.222 ppb	0.837 ppb	5.075 ppb	101.386 ppb	0.186 ppb	0.357 ppb	0.468 ppb	0.800 ppb
Concentration per Run 2	124.350 ppb	0.295 ppb	1.011 ppb	4.385 ppb	83.661 ppb	0.200 ppb	0.457 ppb	0.520 ppb	0.821 ppb
Concentration per Run 3	114.033 ppb	0.084 ppb	1.016 ppb	4.229 ppb	90.155 ppb	0.203 ppb	0.210 ppb	0.342 ppb	0.639 ppb
Concentration RSD	5.7 %	53.5 %	10.7 %	9.9 %	9.8 %	4.6 %	36.4 %	20.7 %	13.3 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	145.224 %	0.171 ppb	0.233 ppb	265.844 ppb	0.552 ppb	131.765 %	0.003 ppb	0.007 ppb	147.022 %
Concentration per Run 1	139.856 %	0.153 ppb	0.172 ppb	280.625 ppb	0.467 ppb	129.252 %	0.001 ppb	0.006 ppb	143.689 %
Concentration per Run 2	144.156 %	0.192 ppb	0.284 ppb	268.193 ppb	0.548 ppb	130.843 %	0.005 ppb	0.008 ppb	144.173 %
Concentration per Run 3	151.661 %	0.168 ppb	0.242 ppb	248.713 ppb	0.642 ppb	135.200 %	0.002 ppb	0.008 ppb	153.204 %
Concentration RSD	4.1 %	11.6 %	24.2 %	6.1 %	15.9 %	2.3 %	84.5 %	14.4 %	3.6 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.924 ppb	0.505 ppb	65.602 ppb	140.758 %	144.781 %	0.109 ppb	0.120 ppb	0.158 ppb	129.663 %
Concentration per Run 1	0.798 ppb	0.509 ppb	68.780 ppb	135.716 %	138.440 %	0.065 ppb	0.121 ppb	0.172 ppb	124.398 %
Concentration per Run 2	1.024 ppb	0.517 ppb	68.269 ppb	139.351 %	144.044 %	0.113 ppb	0.130 ppb	0.159 ppb	128.329 %
Concentration per Run 3	0.949 ppb	0.488 ppb	59.758 ppb	147.205 %	151.859 %	0.149 ppb	0.108 ppb	0.143 ppb	136.262 %
Concentration RSD	12.4 %	3.0 %	7.7 %	4.2 %	4.7 %	38.8 %	9.1 %	9.2 %	4.7 %

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Analysis index: 157
Analysis label: L2046825-03 6020TL
Analysis started at: 10/29/2020 8:43:20 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	141.067 %	170.877 %	0.000 ppb	3,988.071 ppb	2,512.641 ppb	2.557 ppb	713.601 ppb	16,991.163 ppb	137.896 %
Concentration per Run 1	141.110 %	168.543 %	0.006 ppb	4,064.942 ppb	2,579.059 ppb	2.726 ppb	709.556 ppb	17,291.684 ppb	138.111 %
Concentration per Run 2	141.522 %	162.336 %	-0.001 ppb	4,225.582 ppb	2,656.435 ppb	2.611 ppb	757.981 ppb	17,685.301 ppb	138.410 %
Concentration per Run 3	140.569 %	181.753 %	-0.005 ppb	3,673.688 ppb	2,302.430 ppb	2.334 ppb	673.267 ppb	15,996.504 ppb	137.167 %
Concentration RSD	0.3 %	5.8 %	240,543,495.5 %	7.1 %	7.4 %	7.9 %	6.0 %	5.2 %	0.5 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	24.354 ppb	0.042 ppb	0.764 ppb	0.686 ppb	7.256 ppb	0.017 ppb	0.257 ppb	0.041 ppb	0.455 ppb
Concentration per Run 1	25.237 ppb	0.052 ppb	0.734 ppb	0.829 ppb	8.449 ppb	0.020 ppb	0.379 ppb	0.080 ppb	0.494 ppb
Concentration per Run 2	25.633 ppb	-0.021 ppb	0.881 ppb	0.696 ppb	7.790 ppb	0.020 ppb	0.190 ppb	0.020 ppb	0.492 ppb
Concentration per Run 3	22.192 ppb	0.096 ppb	0.677 ppb	0.533 ppb	5.531 ppb	0.010 ppb	0.201 ppb	0.024 ppb	0.380 ppb
Concentration RSD	7.7 %	140.3 %	13.8 %	21.6 %	21.1 %	36.9 %	41.3 %	80.4 %	14.4 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	144.815 %	0.086 ppb	0.139 ppb	33.765 ppb	0.292 ppb	133.145 %	0.001 ppb	0.005 ppb	147.679 %
Concentration per Run 1	143.634 %	0.070 ppb	0.141 ppb	34.593 ppb	0.254 ppb	130.666 %	0.003 ppb	0.004 ppb	142.610 %
Concentration per Run 2	142.100 %	0.078 ppb	0.168 ppb	35.049 ppb	0.321 ppb	130.771 %	0.000 ppb	0.000 ppb	146.577 %
Concentration per Run 3	148.712 %	0.110 ppb	0.108 ppb	31.652 ppb	0.301 ppb	138.000 %	-0.001 ppb	0.010 ppb	153.848 %
Concentration RSD	2.4 %	24.5 %	21.4 %	5.5 %	11.7 %	3.2 %	225.1 %	105.3 %	3.9 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.513 ppb	0.302 ppb	15.948 ppb	140.660 %	144.321 %	0.047 ppb	0.064 ppb	0.010 ppb	134.537 %
Concentration per Run 1	0.540 ppb	0.288 ppb	17.383 ppb	136.120 %	138.026 %	0.022 ppb	0.070 ppb	0.011 ppb	131.436 %
Concentration per Run 2	0.549 ppb	0.325 ppb	15.851 ppb	139.345 %	142.752 %	0.070 ppb	0.067 ppb	0.009 ppb	132.344 %
Concentration per Run 3	0.450 ppb	0.293 ppb	14.609 ppb	146.516 %	152.183 %	0.050 ppb	0.057 ppb	0.009 ppb	139.829 %
Concentration RSD	10.6 %	6.7 %	8.7 %	3.8 %	5.0 %	51.3 %	10.8 %	12.3 %	3.4 %

Alpha ICPMSQ Full

10/29/2020 9:29:56 PM

Analysis index: 158
Analysis label: L2046825-04 6020TL
Analysis started at: 10/29/2020 8:48:26 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	145.166 %	168.490 %	-0.001 ppb	7,758.817 ppb	1,608.810 ppb	16.251 ppb	1,395.080 ppb	25,874.048 ppb	143.089 %
Concentration per Run 1	148.386 %	165.360 %	-0.001 ppb	7,826.644 ppb	1,621.182 ppb	16.086 ppb	1,367.535 ppb	26,082.503 ppb	144.177 %
Concentration per Run 2	145.446 %	173.795 %	-0.001 ppb	7,608.224 ppb	1,589.298 ppb	17.180 ppb	1,387.424 ppb	25,649.034 ppb	143.790 %
Concentration per Run 3	141.665 %	166.315 %	0.000 ppb	7,841.582 ppb	1,615.952 ppb	15.487 ppb	1,430.280 ppb	25,890.607 ppb	141.300 %
Concentration RSD	2.3 %	2.7 %	57.7 %	1.7 %	1.1 %	5.3 %	2.3 %	0.8 %	1.1 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	37.374 ppb	0.213 ppb	1.410 ppb	1.150 ppb	36.669 ppb	0.045 ppb	0.573 ppb	0.163 ppb	1.151 ppb
Concentration per Run 1	38.005 ppb	0.157 ppb	1.378 ppb	1.103 ppb	39.044 ppb	0.035 ppb	0.490 ppb	0.248 ppb	1.136 ppb
Concentration per Run 2	37.217 ppb	0.314 ppb	1.425 ppb	1.215 ppb	31.340 ppb	0.055 ppb	0.585 ppb	0.128 ppb	1.236 ppb
Concentration per Run 3	36.901 ppb	0.167 ppb	1.427 ppb	1.132 ppb	39.625 ppb	0.045 ppb	0.645 ppb	0.112 ppb	1.080 ppb
Concentration RSD	1.5 %	41.3 %	2.0 %	5.1 %	12.6 %	22.2 %	13.7 %	45.8 %	6.9 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	137.797 %	0.140 ppb	0.927 ppb	76.732 ppb	0.464 ppb	127.407 %	-0.001 ppb	0.004 ppb	142.031 %
Concentration per Run 1	137.110 %	0.109 ppb	0.906 ppb	76.174 ppb	0.382 ppb	127.959 %	-0.001 ppb	0.000 ppb	141.073 %
Concentration per Run 2	138.134 %	0.209 ppb	0.949 ppb	76.884 ppb	0.499 ppb	127.704 %	-0.001 ppb	0.004 ppb	143.042 %
Concentration per Run 3	138.147 %	0.102 ppb	0.926 ppb	77.137 ppb	0.511 ppb	126.558 %	0.000 ppb	0.006 ppb	141.979 %
Concentration RSD	0.4 %	42.8 %	2.4 %	0.7 %	15.4 %	0.6 %	133.6 %	91.8 %	0.7 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.395 ppb	0.232 ppb	18.996 ppb	136.788 %	139.812 %	0.065 ppb	0.060 ppb	0.035 ppb	129.289 %
Concentration per Run 1	0.302 ppb	0.223 ppb	19.685 ppb	135.911 %	140.474 %	0.026 ppb	0.053 ppb	0.035 ppb	129.633 %
Concentration per Run 2	0.426 ppb	0.229 ppb	18.022 ppb	137.643 %	139.881 %	0.054 ppb	0.057 ppb	0.033 ppb	129.778 %
Concentration per Run 3	0.457 ppb	0.245 ppb	19.281 ppb	136.809 %	139.082 %	0.114 ppb	0.069 ppb	0.036 ppb	128.457 %
Concentration RSD	20.9 %	4.9 %	4.6 %	0.6 %	0.5 %	69.4 %	13.5 %	4.3 %	0.6 %

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Analysis index: 159
Analysis label: L2046825-06 6020TL
Analysis started at: 10/29/2020 8:53:33 PM
User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	144.078 %	166.262 %	-0.003 ppb	3,998.759 ppb	2,595.258 ppb	2.899 ppb	690.877 ppb	17,349.390 ppb	141.638 %
Concentration per Run 1	144.124 %	163.132 %	0.000 ppb	4,048.402 ppb	2,627.753 ppb	3.410 ppb	678.176 ppb	17,796.488 ppb	139.577 %
Concentration per Run 2	144.544 %	164.564 %	-0.001 ppb	4,000.158 ppb	2,575.315 ppb	2.388 ppb	707.468 ppb	17,375.405 ppb	143.682 %
Concentration per Run 3	143.566 %	171.090 %	-0.007 ppb	3,947.717 ppb	2,582.707 ppb	2.899 ppb	686.987 ppb	16,876.278 ppb	141.655 %
Concentration RSD	0.3 %	2.6 %	120.5 %	1.3 %	1.1 %	17.6 %	2.2 %	2.7 %	1.4 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	24.121 ppb	0.098 ppb	0.777 ppb	0.722 ppb	4.856 ppb	0.028 ppb	0.275 ppb	0.254 ppb	0.587 ppb
Concentration per Run 1	24.250 ppb	0.092 ppb	0.705 ppb	0.842 ppb	3.351 ppb	0.028 ppb	0.224 ppb	0.268 ppb	0.650 ppb
Concentration per Run 2	23.891 ppb	0.136 ppb	0.759 ppb	0.713 ppb	5.105 ppb	0.028 ppb	0.304 ppb	0.295 ppb	0.637 ppb
Concentration per Run 3	24.222 ppb	0.066 ppb	0.869 ppb	0.611 ppb	6.110 ppb	0.027 ppb	0.298 ppb	0.200 ppb	0.474 ppb
Concentration RSD	0.8 %	36.4 %	10.8 %	16.0 %	28.8 %	1.1 %	16.2 %	19.2 %	16.7 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	137.222 %	0.055 ppb	0.094 ppb	34.260 ppb	0.219 ppb	127.420 %	0.000 ppb	0.006 ppb	140.606 %
Concentration per Run 1	136.792 %	0.069 ppb	0.078 ppb	34.328 ppb	0.164 ppb	126.623 %	-0.001 ppb	0.004 ppb	139.805 %
Concentration per Run 2	136.628 %	0.035 ppb	0.078 ppb	34.109 ppb	0.239 ppb	127.879 %	-0.001 ppb	0.004 ppb	140.512 %
Concentration per Run 3	138.244 %	0.061 ppb	0.126 ppb	34.342 ppb	0.255 ppb	127.757 %	0.001 ppb	0.011 ppb	141.500 %
Concentration RSD	0.6 %	32.2 %	29.3 %	0.4 %	22.0 %	0.5 %	362.4 %	57.2 %	0.6 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.328 ppb	0.154 ppb	16.003 ppb	135.594 %	139.176 %	0.038 ppb	0.054 ppb	0.011 ppb	132.331 %
Concentration per Run 1	0.321 ppb	0.147 ppb	16.148 ppb	135.706 %	139.493 %	0.007 ppb	0.052 ppb	0.011 ppb	133.025 %
Concentration per Run 2	0.229 ppb	0.148 ppb	15.764 ppb	135.660 %	137.746 %	0.028 ppb	0.052 ppb	0.010 ppb	130.535 %
Concentration per Run 3	0.434 ppb	0.167 ppb	16.096 ppb	135.416 %	140.289 %	0.079 ppb	0.060 ppb	0.013 ppb	133.432 %
Concentration RSD	31.3 %	7.5 %	1.3 %	0.1 %	0.9 %	95.6 %	8.5 %	12.7 %	1.2 %

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Analysis index: 160 Analysis started at: 10/29/2020 8:58:39 PM
Analysis label: CCV User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	128.474 %	161.646 %	63.345 ppb	5,892.849 ppb	5,969.978 ppb	63.852 ppb	6,145.602 ppb	6,080.006 ppb	137.868 %
Concentration per Run 1	133.931 %	162.018 %	58.944 ppb	5,844.423 ppb	5,873.224 ppb	62.559 ppb	6,142.296 ppb	6,014.963 ppb	138.627 %
Concentration per Run 2	126.935 %	159.312 %	64.289 ppb	6,171.651 ppb	6,242.598 ppb	68.353 ppb	6,334.875 ppb	6,422.558 ppb	137.874 %
Concentration per Run 3	124.557 %	163.609 %	66.801 ppb	5,662.473 ppb	5,794.112 ppb	60.645 ppb	5,959.636 ppb	5,802.496 ppb	137.102 %
Recovery Percentage 1			105.574 %	98.214 %	99.500 %	106.421 %	102.427 %	101.333 %	
Concentration RSD	3.8 %	1.3 %	6.3 %	4.4 %	4.0 %	6.3 %	3.1 %	5.2 %	0.6 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	57.027 ppb	54.888 ppb	54.602 ppb	57.588 ppb	5,765.381 ppb	55.808 ppb	54.934 ppb	55.890 ppb	58.133 ppb
Concentration per Run 1	55.305 ppb	54.131 ppb	54.602 ppb	56.949 ppb	5,812.908 ppb	56.396 ppb	56.892 ppb	56.889 ppb	59.400 ppb
Concentration per Run 2	59.041 ppb	56.762 ppb	57.156 ppb	59.415 ppb	5,928.779 ppb	57.019 ppb	54.752 ppb	56.468 ppb	58.726 ppb
Concentration per Run 3	56.735 ppb	53.770 ppb	52.048 ppb	56.399 ppb	5,554.455 ppb	54.010 ppb	53.159 ppb	54.313 ppb	56.272 ppb
Recovery Percentage 1	95.045 %	91.480 %	91.003 %	95.980 %	96.090 %	93.014 %	91.557 %	93.150 %	96.888 %
Concentration RSD	3.3 %	3.0 %	4.7 %	2.8 %	3.3 %	2.8 %	3.4 %	2.5 %	2.8 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	131.719 %	59.509 ppb	60.914 ppb	64.106 ppb	59.071 ppb	121.896 %	58.958 ppb	59.627 ppb	134.502 %
Concentration per Run 1	131.185 %	60.836 ppb	61.873 ppb	64.607 ppb	60.630 ppb	122.752 %	59.003 ppb	60.016 ppb	135.790 %
Concentration per Run 2	130.290 %	60.387 ppb	62.030 ppb	65.680 ppb	59.829 ppb	120.394 %	61.050 ppb	61.235 ppb	132.645 %
Concentration per Run 3	133.681 %	57.304 ppb	58.838 ppb	62.029 ppb	56.753 ppb	122.543 %	56.821 ppb	57.629 ppb	135.070 %
Recovery Percentage 1		99.182 %	101.523 %	106.843 %	98.451 %		98.263 %	99.378 %	
Concentration RSD	1.3 %	3.2 %	3.0 %	2.9 %	3.5 %	1.1 %	3.6 %	3.1 %	1.2 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	59.723 ppb	59.520 ppb	60.303 ppb	131.640 %	136.101 %	55.860 ppb	58.648 ppb	59.426 ppb	126.704 %
Concentration per Run 1	59.152 ppb	58.963 ppb	60.773 ppb	131.583 %	136.549 %	56.394 ppb	58.983 ppb	60.030 ppb	125.527 %
Concentration per Run 2	61.697 ppb	61.495 ppb	62.313 ppb	128.089 %	133.546 %	57.364 ppb	59.940 ppb	60.938 ppb	125.552 %
Concentration per Run 3	58.319 ppb	58.102 ppb	57.824 ppb	135.246 %	138.207 %	53.821 ppb	57.020 ppb	57.311 ppb	129.032 %
Recovery Percentage 1	99.538 %	99.200 %	100.505 %			93.100 %	97.746 %	99.044 %	
Concentration RSD	2.9 %	3.0 %	3.8 %	2.7 %	1.7 %	3.3 %	2.5 %	3.2 %	1.6 %

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Analysis index: 161 Analysis started at: 10/29/2020 9:03:48 PM
Analysis label: CCB User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	128.658 %	148.648 %	0.004 ppb	-2.728 ppb	0.605 ppb	0.064 ppb	-0.729 ppb	9.046 ppb	123.094 %
Concentration per Run 1	132.338 %	141.964 %	0.007 ppb	-2.415 ppb	0.476 ppb	-0.030 ppb	-0.606 ppb	8.043 ppb	125.987 %
Concentration per Run 2	127.757 %	158.994 %	0.006 ppb	-3.659 ppb	1.450 ppb	0.321 ppb	-1.779 ppb	6.160 ppb	122.098 %
Concentration per Run 3	125.879 %	144.988 %	0.000 ppb	-2.110 ppb	-0.110 ppb	-0.099 ppb	0.199 ppb	12.934 ppb	121.195 %
Recovery Percentage 1			0.865 %	-2.728 %	0.865 %	0.640 %	-0.729 %	9.046 %	
Concentration RSD	2.6 %	6.1 %	94.6 %	30.1 %	130.2 %	351.4 %	136.6 %	38.7 %	2.1 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.214 ppb	0.019 ppb	0.002 ppb	0.065 ppb	25.277 ppb	0.001 ppb	0.020 ppb	-0.027 ppb	-0.011 ppb
Concentration per Run 1	0.230 ppb	-0.008 ppb	-0.012 ppb	0.019 ppb	25.210 ppb	0.000 ppb	0.032 ppb	-0.026 ppb	-0.038 ppb
Concentration per Run 2	0.265 ppb	-0.002 ppb	0.018 ppb	0.085 ppb	23.290 ppb	0.004 ppb	0.043 ppb	-0.028 ppb	-0.008 ppb
Concentration per Run 3	0.148 ppb	0.066 ppb	0.000 ppb	0.090 ppb	27.330 ppb	0.000 ppb	-0.015 ppb	-0.027 ppb	0.013 ppb
Recovery Percentage 1	42.875 %	0.374 %	0.194 %	6.496 %	50.554 %	0.254 %	1.004 %	-2.665 %	-0.109 %
Concentration RSD	27.9 %	218.6 %	799.4 %	61.0 %	8.0 %	173.2 %	152.0 %	3.8 %	231.9 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	121.281 %	0.071 ppb	0.160 ppb	0.013 ppb	0.933 ppb	116.298 %	0.003 ppb	0.002 ppb	128.390 %
Concentration per Run 1	119.024 %	0.071 ppb	0.137 ppb	0.015 ppb	0.816 ppb	111.656 %	0.004 ppb	0.002 ppb	124.848 %
Concentration per Run 2	123.530 %	0.051 ppb	0.126 ppb	0.010 ppb	1.002 ppb	120.878 %	0.002 ppb	0.000 ppb	132.243 %
Concentration per Run 3	121.288 %	0.091 ppb	0.216 ppb	0.012 ppb	0.982 ppb	116.360 %	0.004 ppb	0.002 ppb	128.079 %
Recovery Percentage 1		14.202 %	3.192 %	2.506 %	46.672 %		0.850 %	0.790 %	
Concentration RSD	1.9 %	28.2 %	30.8 %	21.0 %	10.9 %	4.0 %	34.6 %	86.6 %	2.9 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.919 ppb	0.165 ppb	0.052 ppb	122.312 %	126.434 %	1.050 ppb	0.467 ppb	0.034 ppb	121.019 %
Concentration per Run 1	0.898 ppb	0.153 ppb	0.052 ppb	118.550 %	122.291 %	0.965 ppb	0.491 ppb	0.037 ppb	117.047 %
Concentration per Run 2	0.885 ppb	0.185 ppb	0.072 ppb	126.145 %	131.254 %	1.001 ppb	0.466 ppb	0.032 ppb	125.338 %
Concentration per Run 3	0.974 ppb	0.157 ppb	0.034 ppb	122.240 %	125.757 %	1.183 ppb	0.444 ppb	0.033 ppb	120.673 %
Recovery Percentage 1	30.636 %	4.118 %	10.467 %			52.477 %	93.419 %	3.441 %	
Concentration RSD	5.2 %	10.7 %	36.3 %	3.1 %	3.6 %	11.1 %	5.0 %	7.5 %	3.4 %

Alpha ICPMSQ Full

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Analysis index: 162 Analysis started at: 10/29/2020 9:13:02 PM
Analysis label: CCV User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	134.413 %	154.749 %	55.455 ppb	6,124.909 ppb	6,171.266 ppb	63.043 ppb	6,397.245 ppb	6,165.035 ppb	140.324 %
Concentration per Run 1	138.059 %	154.060 %	52.952 ppb	6,225.654 ppb	6,264.121 ppb	65.350 ppb	6,427.857 ppb	6,169.667 ppb	140.825 %
Concentration per Run 2	134.480 %	152.627 %	55.473 ppb	6,212.627 ppb	6,203.129 ppb	62.574 ppb	6,405.205 ppb	6,227.114 ppb	140.808 %
Concentration per Run 3	130.700 %	157.561 %	57.942 ppb	5,936.445 ppb	6,046.549 ppb	61.204 ppb	6,358.672 ppb	6,098.325 ppb	139.339 %
Recovery Percentage 1			92.426 %	102.082 %	102.854 %	105.071 %	106.621 %	102.751 %	
Concentration RSD	2.7 %	1.6 %	4.5 %	2.7 %	1.8 %	3.4 %	0.6 %	1.0 %	0.6 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	58.688 ppb	56.970 ppb	55.749 ppb	59.564 ppb	5,897.635 ppb	56.727 ppb	57.466 ppb	56.912 ppb	58.518 ppb
Concentration per Run 1	58.390 ppb	57.926 ppb	56.081 ppb	59.346 ppb	5,925.934 ppb	57.018 ppb	58.082 ppb	57.468 ppb	60.207 ppb
Concentration per Run 2	58.498 ppb	56.525 ppb	56.813 ppb	58.948 ppb	5,961.914 ppb	57.531 ppb	58.630 ppb	58.193 ppb	58.429 ppb
Concentration per Run 3	59.175 ppb	56.458 ppb	54.353 ppb	60.398 ppb	5,805.057 ppb	55.632 ppb	55.686 ppb	55.075 ppb	56.918 ppb
Recovery Percentage 1	97.813 %	94.950 %	92.915 %	99.273 %	98.294 %	94.545 %	95.776 %	94.854 %	97.530 %
Concentration RSD	0.7 %	1.5 %	2.3 %	1.3 %	1.4 %	1.7 %	2.7 %	2.9 %	2.8 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	130.818 %	59.745 ppb	63.976 ppb	65.241 ppb	58.145 ppb	120.761 %	59.100 ppb	59.462 ppb	134.817 %
Concentration per Run 1	129.579 %	61.416 ppb	65.667 ppb	66.168 ppb	59.917 ppb	120.516 %	59.587 ppb	60.284 ppb	133.708 %
Concentration per Run 2	130.462 %	59.406 ppb	63.934 ppb	65.011 ppb	56.963 ppb	121.261 %	59.008 ppb	58.781 ppb	137.421 %
Concentration per Run 3	132.412 %	58.415 ppb	62.327 ppb	64.543 ppb	57.555 ppb	120.506 %	58.706 ppb	59.320 ppb	133.322 %
Recovery Percentage 1		99.576 %	106.627 %	108.734 %	96.908 %		98.500 %	99.103 %	
Concentration RSD	1.1 %	2.6 %	2.6 %	1.3 %	2.7 %	0.4 %	0.8 %	1.3 %	1.7 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	59.236 ppb	59.219 ppb	60.460 ppb	131.704 %	135.876 %	55.602 ppb	58.391 ppb	59.171 ppb	126.510 %
Concentration per Run 1	60.260 ppb	59.851 ppb	62.391 ppb	130.806 %	135.849 %	56.224 ppb	59.034 ppb	59.469 ppb	126.655 %
Concentration per Run 2	57.799 ppb	58.242 ppb	59.300 ppb	132.852 %	135.281 %	55.195 ppb	58.068 ppb	58.828 ppb	127.171 %
Concentration per Run 3	59.648 ppb	59.565 ppb	59.687 ppb	131.453 %	136.499 %	55.386 ppb	58.072 ppb	59.216 ppb	125.705 %
Recovery Percentage 1	98.726 %	98.699 %	100.766 %			92.669 %	97.319 %	98.618 %	
Concentration RSD	2.2 %	1.4 %	2.8 %	0.8 %	0.4 %	1.0 %	1.0 %	0.5 %	0.6 %

Alpha ICPMSQ Full

10/29/2020 9:29:56 PM

Analysis index: 163 Analysis started at: 10/29/2020 9:18:11 PM
Analysis label: LLCCV User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	123.868 %	156.553 %	0.375 ppb	101.512 ppb	72.953 ppb	18.153 ppb	103.115 ppb	112.865 ppb	118.995 %
Concentration per Run 1	127.650 %	161.699 %	0.368 ppb	98.347 ppb	71.817 ppb	16.867 ppb	86.962 ppb	122.017 ppb	118.635 %
Concentration per Run 2	123.302 %	151.832 %	0.404 ppb	106.083 ppb	71.264 ppb	19.968 ppb	104.061 ppb	120.273 ppb	119.300 %
Concentration per Run 3	120.652 %	156.129 %	0.352 ppb	100.107 ppb	75.779 ppb	17.625 ppb	118.324 ppb	96.306 ppb	119.048 %
Recovery Percentage 1			74.958 %	101.512 %	104.219 %	181.535 %	103.115 %	112.865 %	
Concentration RSD	2.9 %	3.2 %	7.1 %	4.0 %	3.4 %	8.9 %	15.2 %	12.7 %	0.3 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.855 ppb	5.431 ppb	0.505 ppb	1.191 ppb	74.779 ppb	0.490 ppb	1.633 ppb	1.131 ppb	10.594 ppb
Concentration per Run 1	0.800 ppb	5.194 ppb	0.442 ppb	1.204 ppb	71.046 ppb	0.454 ppb	1.596 ppb	0.967 ppb	10.369 ppb
Concentration per Run 2	0.956 ppb	5.589 ppb	0.529 ppb	1.211 ppb	70.445 ppb	0.510 ppb	1.577 ppb	1.260 ppb	10.909 ppb
Concentration per Run 3	0.809 ppb	5.509 ppb	0.544 ppb	1.157 ppb	82.847 ppb	0.507 ppb	1.727 ppb	1.166 ppb	10.504 ppb
Recovery Percentage 1	170.999 %	108.619 %	50.466 %	119.055 %	149.559 %	98.053 %	81.644 %	113.108 %	105.941 %
Concentration RSD	10.2 %	3.8 %	10.9 %	2.5 %	9.4 %	6.5 %	5.0 %	13.2 %	2.7 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	128.072 %	0.563 ppb	5.599 ppb	0.588 ppb	2.654 ppb	121.386 %	0.438 ppb	0.206 ppb	133.147 %
Concentration per Run 1	128.169 %	0.576 ppb	5.834 ppb	0.567 ppb	2.302 ppb	124.400 %	0.424 ppb	0.220 ppb	135.251 %
Concentration per Run 2	126.788 %	0.598 ppb	5.839 ppb	0.611 ppb	2.999 ppb	119.707 %	0.463 ppb	0.178 ppb	133.432 %
Concentration per Run 3	129.259 %	0.514 ppb	5.125 ppb	0.585 ppb	2.662 ppb	120.051 %	0.429 ppb	0.221 ppb	130.759 %
Recovery Percentage 1		112.508 %	111.986 %	117.514 %	132.697 %		109.609 %	103.174 %	
Concentration RSD	1.0 %	7.7 %	7.3 %	3.7 %	13.1 %	2.2 %	4.8 %	12.0 %	1.7 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	3.085 ppb	1.940 ppb	0.480 ppb	127.889 %	131.223 %	1.764 ppb	0.956 ppb	0.593 ppb	126.266 %
Concentration per Run 1	2.802 ppb	1.852 ppb	0.513 ppb	130.373 %	133.471 %	1.498 ppb	0.927 ppb	0.560 ppb	128.723 %
Concentration per Run 2	3.185 ppb	1.914 ppb	0.513 ppb	128.122 %	132.020 %	1.842 ppb	0.980 ppb	0.593 ppb	125.715 %
Concentration per Run 3	3.269 ppb	2.053 ppb	0.414 ppb	125.171 %	128.177 %	1.951 ppb	0.960 ppb	0.626 ppb	124.358 %
Recovery Percentage 1	102.849 %	48.495 %	95.971 %			88.190 %	191.108 %	59.298 %	
Concentration RSD	8.1 %	5.3 %	12.0 %	2.0 %	2.1 %	13.4 %	2.8 %	5.5 %	1.8 %

Alpha ICPMSQ Full

10/29/2020 9:29:56 PM

Analysis index: 164 Analysis started at: 10/29/2020 9:23:21 PM
Analysis label: CCB User name: ALPHALAB\Metals-Instrument

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	128.066 %	151.142 %	-0.005 ppb	-3.115 ppb	0.338 ppb	-0.128 ppb	0.988 ppb	5.500 ppb	122.039 %
Concentration per Run 1	131.001 %	152.627 %	-0.007 ppb	-2.765 ppb	-0.122 ppb	-0.281 ppb	6.367 ppb	1.300 ppb	122.940 %
Concentration per Run 2	126.551 %	152.627 %	0.000 ppb	-3.586 ppb	0.691 ppb	0.110 ppb	-1.027 ppb	7.450 ppb	120.171 %
Concentration per Run 3	126.646 %	148.171 %	-0.008 ppb	-2.994 ppb	0.446 ppb	-0.212 ppb	-2.375 ppb	7.751 ppb	123.005 %
Recovery Percentage 1			-1.009 %	-3.115 %	0.483 %	-1.276 %	0.988 %	5.500 %	
Concentration RSD	2.0 %	1.7 %	81.1 %	13.6 %	123.4 %	163.7 %	476.3 %	66.2 %	1.3 %

Category	48Ti (KED AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	0.070 ppb	-0.004 ppb	0.003 ppb	0.027 ppb	9.902 ppb	0.003 ppb	0.004 ppb	-0.038 ppb	0.030 ppb
Concentration per Run 1	-0.041 ppb	0.012 ppb	-0.001 ppb	0.031 ppb	9.051 ppb	0.004 ppb	0.014 ppb	-0.018 ppb	0.110 ppb
Concentration per Run 2	0.141 ppb	-0.001 ppb	0.019 ppb	0.031 ppb	10.925 ppb	0.004 ppb	-0.001 ppb	-0.028 ppb	-0.024 ppb
Concentration per Run 3	0.110 ppb	-0.023 ppb	-0.009 ppb	0.018 ppb	9.730 ppb	0.000 ppb	0.001 ppb	-0.067 ppb	0.005 ppb
Recovery Percentage 1	13.979 %	-0.077 %	0.297 %	2.669 %	19.804 %	0.511 %	0.223 %	-3.759 %	0.304 %
Concentration RSD	139.6 %	451.6 %	479.3 %	27.2 %	9.6 %	86.6 %	183.8 %	69.9 %	232.4 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	123.032 %	0.037 ppb	0.090 ppb	0.018 ppb	0.317 ppb	119.236 %	0.003 ppb	0.000 ppb	132.020 %
Concentration per Run 1	123.982 %	-0.002 ppb	0.208 ppb	0.022 ppb	0.317 ppb	120.075 %	0.002 ppb	0.000 ppb	132.451 %
Concentration per Run 2	124.730 %	0.050 ppb	0.042 ppb	0.016 ppb	0.340 ppb	117.784 %	0.002 ppb	0.000 ppb	131.866 %
Concentration per Run 3	120.384 %	0.061 ppb	0.019 ppb	0.016 ppb	0.293 ppb	119.848 %	0.005 ppb	0.000 ppb	131.745 %
Recovery Percentage 1		7.344 %	1.792 %	3.571 %	15.830 %		0.739 %	0.000 %	
Concentration RSD	1.9 %	91.4 %	115.4 %	18.3 %	7.4 %	1.1 %	51.2 %	N/A	0.3 %

Category	118Sn (KED AGD)	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	183W (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.498 ppb	0.088 ppb	0.017 ppb	126.387 %	129.896 %	0.362 ppb	0.160 ppb	0.014 ppb	124.210 %
Concentration per Run 1	0.402 ppb	0.075 ppb	0.017 ppb	127.018 %	130.539 %	0.254 ppb	0.142 ppb	0.014 ppb	124.836 %
Concentration per Run 2	0.506 ppb	0.101 ppb	0.025 ppb	125.956 %	128.030 %	0.382 ppb	0.164 ppb	0.012 ppb	123.098 %
Concentration per Run 3	0.587 ppb	0.088 ppb	0.009 ppb	126.186 %	131.119 %	0.449 ppb	0.173 ppb	0.015 ppb	124.695 %
Recovery Percentage 1	16.607 %	2.201 %	3.348 %			18.084 %	31.908 %	1.361 %	
Concentration RSD	18.7 %	14.9 %	47.1 %	0.4 %	1.3 %	27.3 %	9.9 %	11.6 %	0.8 %

Interference Check Solutions
(ICP-MS)

Solution Component	Solution A Concentration (ug/L)	Solution AB Concentration (ug/L)
Al	20,000	20,000
Ca	60,000	60,000
Fe	50,000	50,000
Mg	20,000	20,000
Na	50,000	50,000
K	20,000	20,000
Mo	400	400
As	0.0	20
Cd	0.0	20
Cr	0.0	40
Co	0.0	40
Cu	0.0	40
Mn	0.0	40
Ni	0.0	40
Se	0.0	20
Ag	0.0	10
V	0.0	40
Zn	0.0	20

LCS & MS Concentrations
(ICP-MS)

Element	Liquid Concentration (mg/L)
Aluminum	2.00
Antimony	0.5
Arsenic	0.12
Barium	2.00
Beryllium	0.05
Cadmium	0.051
Calcium	10.0
Chromium	0.20
Cobalt	0.50
Copper	0.25
Iron	1.00
Lead	0.51
Magnesium	10.0
Manganese	0.50
Molybdenum	1.00
Nickel	0.50
Potassium	10.0
Selenium	0.12
Silver	0.05
Sodium	10.0
Thallium	0.12
Vanadium	0.50
Zinc	0.50

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck



ISO/IEC GUIDE 34:2009 ACCREDITED REFERENCE MATERIAL PRODUCER CERTIFICATE NO. 1539.03

ISO/IEC 17025:2005 ACCREDITED CHEMICAL TESTING LABORATORY CERTIFICATE NO. 1539.02

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ERA
A Waters Company

Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

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Reference Material

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Matthew Seebeck

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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

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Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

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ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

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▪ Certificate of Analysis ▪

1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

$U_{expanded}$ = Expanded uncertainty.
k = Coverage factor.
U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
$U_{homogen}$ = Standard uncertainty of the homogeneity assessment.
U_{LTS} = Standard uncertainty associated with long-term stability.
U_{STS} = Standard uncertainty associated with short-term (transport) stability.
U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

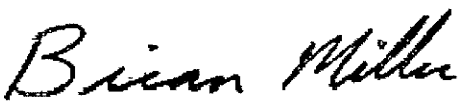
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck



Calculation of Method 6020 Metals

Aqueous Samples

The instrument will calculate the concentration (µg/L). This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, mg/L} = C_s \times (1\text{mg}/1000\mu\text{g}) \times (DF)$$

Where:

C_s = Concentration of sample (µg/L)

DF = Dilution Factor

Sample List Summary

10/29/2020 9:31:17 PM

QTEGRA

Instrument Name	Serial Number
iCAP Q	Undefined

LabBook	LabBook Path
WG1427890_MSQ2102920.imexp	_Application Data\Workspace\LabBooks

Index	Label	Main runs	Survey runs	Start time	User name
1	Rinse	3	1	10/29/2020 7:15:29 AM	ALPHALAB\Metals-Instrument
2	CAL LOT#M0163	3	1	10/29/2020 7:20:33 AM	ALPHALAB\Metals-Instrument
3	Blank AM ICPMSQ2	3	1	10/29/2020 7:25:38 AM	ALPHALAB\Metals-Instrument
4	0.2/20 Cal	3	1	10/29/2020 7:30:47 AM	ALPHALAB\Metals-Instrument
5	1/100 Cal	3	1	10/29/2020 7:35:52 AM	ALPHALAB\Metals-Instrument
6	10/1000 Cal	3	1	10/29/2020 7:40:58 AM	ALPHALAB\Metals-Instrument
7	60/6000 Cal	3	1	10/29/2020 7:46:05 AM	ALPHALAB\Metals-Instrument
8	120/12000 Cal	3	1	10/29/2020 7:51:10 AM	ALPHALAB\Metals-Instrument
9	Sr 200ppb	3	1	10/29/2020 7:56:17 AM	ALPHALAB\Metals-Instrument
10	XICV	3	1	10/29/2020 8:01:26 AM	ALPHALAB\Metals-Instrument
11	ICV	3	1	10/29/2020 8:07:09 AM	ALPHALAB\Metals-Instrument
12	ICB	3	1	10/29/2020 8:12:16 AM	ALPHALAB\Metals-Instrument
13	LLCCV	3	1	10/29/2020 8:17:25 AM	ALPHALAB\Metals-Instrument
14	ICSA	3	1	10/29/2020 8:22:34 AM	ALPHALAB\Metals-Instrument
15	Rinse	3	1	10/29/2020 8:27:44 AM	ALPHALAB\Metals-Instrument
16	CCV	3	1	10/29/2020 8:32:48 AM	ALPHALAB\Metals-Instrument
17	CCB	3	1	10/29/2020 8:37:57 AM	ALPHALAB\Metals-Instrument
18	WG1427577-1 CT-6020SL	3	1	10/29/2020 8:43:06 AM	ALPHALAB\Metals-Instrument
19	WG1427577-2D5 CT-6020SL	3	1	10/29/2020 8:48:13 AM	ALPHALAB\Metals-Instrument
20	WG1427186-2D10 6020TS	3	1	10/29/2020 8:53:20 AM	ALPHALAB\Metals-Instrument
21	WG1427186-3D20 6020TS	3	1	10/29/2020 8:58:25 AM	ALPHALAB\Metals-Instrument
22	WG1427186-5D20 6020TS	3	1	10/29/2020 9:03:30 AM	ALPHALAB\Metals-Instrument
23	WG1427186-4D20 6020TS	3	1	10/29/2020 9:08:35 AM	ALPHALAB\Metals-Instrument
24	L2046055-01D20 6020TS	3	1	10/29/2020 9:13:41 AM	ALPHALAB\Metals-Instrument
25	L2046055-02D20 6020TS	3	1	10/29/2020 9:18:47 AM	ALPHALAB\Metals-Instrument
26	WG1427186-6D100 6020TS	3	1	10/29/2020 9:23:54 AM	ALPHALAB\Metals-Instrument
27	WG1427186-1D10 6020TS	3	1	10/29/2020 9:29:00 AM	ALPHALAB\Metals-Instrument
28	CCV	3	1	10/29/2020 9:34:04 AM	ALPHALAB\Metals-Instrument
29	CCB	3	1	10/29/2020 9:39:13 AM	ALPHALAB\Metals-Instrument
30	WG1427727-1 6020SL	3	1	10/29/2020 9:44:22 AM	ALPHALAB\Metals-Instrument
31	WG1427727-2D5 6020SL	3	1	10/29/2020 9:49:26 AM	ALPHALAB\Metals-Instrument
32	WG1427727-3D10 6020SL	3	1	10/29/2020 9:54:31 AM	ALPHALAB\Metals-Instrument
33	WG1427727-5D10 6020SL	3	1	10/29/2020 9:59:36 AM	ALPHALAB\Metals-Instrument
34	WG1427727-4 6020SL	3	1	10/29/2020 10:04:41 AM	ALPHALAB\Metals-Instrument
35	L2046625-01 6020SL	3	1	10/29/2020 10:09:47 AM	ALPHALAB\Metals-Instrument
36	L2046272-02 CT-6020SL	3	1	10/29/2020 10:14:53 AM	ALPHALAB\Metals-Instrument
37	L2046272-04 CT-6020SL	3	1	10/29/2020 10:20:00 AM	ALPHALAB\Metals-Instrument
38	L2046272-06 CT-6020SL	3	1	10/29/2020 10:25:08 AM	ALPHALAB\Metals-Instrument
39	WG1427727-6D5 6020SL	3	1	10/29/2020 10:30:12 AM	ALPHALAB\Metals-Instrument
40	CCV	3	1	10/29/2020 10:35:18 AM	ALPHALAB\Metals-Instrument
41	CCB	3	1	10/29/2020 10:40:27 AM	ALPHALAB\Metals-Instrument
42	WG1427631-1 6020TL	3	1	10/29/2020 10:46:29 AM	ALPHALAB\Metals-Instrument
43	WG1427631-2D5 6020TL	3	1	10/29/2020 10:51:34 AM	ALPHALAB\Metals-Instrument
44	L2046625-02 6020SL	3	1	10/29/2020 10:56:39 AM	ALPHALAB\Metals-Instrument
45	L2046625-03 6020SL	3	1	10/29/2020 11:01:45 AM	ALPHALAB\Metals-Instrument
46	L2046790-01 6020SL	3	1	10/29/2020 11:06:52 AM	ALPHALAB\Metals-Instrument
47	L2046790-02 6020SL	3	1	10/29/2020 11:11:56 AM	ALPHALAB\Metals-Instrument
48	L2046790-03 6020SL	3	1	10/29/2020 11:17:00 AM	ALPHALAB\Metals-Instrument
49	L2046790-04 6020SL	3	1	10/29/2020 11:22:04 AM	ALPHALAB\Metals-Instrument
50	L2046272-08 CT-6020SL	3	1	10/29/2020 11:27:09 AM	ALPHALAB\Metals-Instrument
51	L2046625-02D50 6020SL	3	1	10/29/2020 11:32:13 AM	ALPHALAB\Metals-Instrument
52	XCCV	3	1	10/29/2020 11:37:18 AM	ALPHALAB\Metals-Instrument
53	XCCB	3	1	10/29/2020 11:42:27 AM	ALPHALAB\Metals-Instrument
54	CCV	3	1	10/29/2020 11:48:02 AM	ALPHALAB\Metals-Instrument
55	CCB	3	1	10/29/2020 11:53:11 AM	ALPHALAB\Metals-Instrument
56	WG1427631-3D20 6020TL	3	1	10/29/2020 11:58:20 AM	ALPHALAB\Metals-Instrument
57	WG1427631-5D20 6020TL	3	1	10/29/2020 12:03:25 PM	ALPHALAB\Metals-Instrument
58	WG1427631-4D5 6020TL	3	1	10/29/2020 12:08:31 PM	ALPHALAB\Metals-Instrument
59	L2046201-01D5 6020TL	3	1	10/29/2020 12:13:37 PM	ALPHALAB\Metals-Instrument
60	L2046625-01 6020TL	3	1	10/29/2020 12:18:43 PM	ALPHALAB\Metals-Instrument
61	L2046625-02 6020TL	3	1	10/29/2020 12:23:47 PM	ALPHALAB\Metals-Instrument
62	L2046625-03D5 6020TL	3	1	10/29/2020 12:28:52 PM	ALPHALAB\Metals-Instrument
63	WG1427631-6D25 6020TL	3	1	10/29/2020 12:33:56 PM	ALPHALAB\Metals-Instrument

Sample List Summary

10/29/2020 9:31:17 PM

QTEGRA

Index	Label	Main runs	Survey runs	Start time	User name
64	L2046286-02 CT-6020SL	3	1	10/29/2020 12:39:03 PM	ALPHALAB\Metals-Instrument
65	L2046625-03D50 6020SL	3	1	10/29/2020 12:44:07 PM	ALPHALAB\Metals-Instrument
66	CCV	3	1	10/29/2020 12:49:13 PM	ALPHALAB\Metals-Instrument
67	CCB	3	1	10/29/2020 12:54:21 PM	ALPHALAB\Metals-Instrument
68	WG1426709-1 MCP-6020TL-10	3	1	10/29/2020 1:00:37 PM	ALPHALAB\Metals-Instrument
69	WG1426709-2D10 MCP-6020TL-10	3	1	10/29/2020 1:05:43 PM	ALPHALAB\Metals-Instrument
70	WG1426709-3D10 MCP-6020TL-10	3	1	10/29/2020 1:10:50 PM	ALPHALAB\Metals-Instrument
71	WG1426709-4D10 MCP-6020TL-10	3	1	10/29/2020 1:15:57 PM	ALPHALAB\Metals-Instrument
72	XWG1426709-5D10 MCP-6020TL-10	3	1	10/29/2020 1:21:01 PM	ALPHALAB\Metals-Instrument
73	XL2046058-06D10 MCP-6020TL-10	3	1	10/29/2020 1:26:06 PM	ALPHALAB\Metals-Instrument
74	L2046201-02D5 6020TL	3	1	10/29/2020 1:31:11 PM	ALPHALAB\Metals-Instrument
75	WG1426709-5D10 MCP-6020TL-10	3	1	10/29/2020 1:36:17 PM	ALPHALAB\Metals-Instrument
76	L2046058-06D10 MCP-6020TL-10	3	1	10/29/2020 1:41:23 PM	ALPHALAB\Metals-Instrument
77	WG1426709-6D50 MCP-6020TL-10	3	1	10/29/2020 1:46:28 PM	ALPHALAB\Metals-Instrument
78	CCV	3	1	10/29/2020 1:51:32 PM	ALPHALAB\Metals-Instrument
79	CCB	3	1	10/29/2020 1:56:41 PM	ALPHALAB\Metals-Instrument
80	L2046790-01 6020TL	3	1	10/29/2020 2:02:22 PM	ALPHALAB\Metals-Instrument
81	L2046790-02 6020TL	3	1	10/29/2020 2:07:27 PM	ALPHALAB\Metals-Instrument
82	L2046790-03 6020TL	3	1	10/29/2020 2:12:32 PM	ALPHALAB\Metals-Instrument
83	L2046790-04 6020TL	3	1	10/29/2020 2:17:37 PM	ALPHALAB\Metals-Instrument
84	L2046058-01D10 MCP-6020TL-10	3	1	10/29/2020 2:22:42 PM	ALPHALAB\Metals-Instrument
85	L2046058-02D10 MCP-6020TL-10	3	1	10/29/2020 2:27:47 PM	ALPHALAB\Metals-Instrument
86	L2046058-03D10 MCP-6020TL-10	3	1	10/29/2020 2:32:52 PM	ALPHALAB\Metals-Instrument
87	L2046058-04D20 MCP-6020TL-10	3	1	10/29/2020 2:37:57 PM	ALPHALAB\Metals-Instrument
88	L2046058-05D10 MCP-6020TL-10	3	1	10/29/2020 2:43:03 PM	ALPHALAB\Metals-Instrument
89	L2046625-02D50 6020TL	3	1	10/29/2020 2:48:09 PM	ALPHALAB\Metals-Instrument
90	CCV	3	1	10/29/2020 2:53:14 PM	ALPHALAB\Metals-Instrument
91	CCB	3	1	10/29/2020 2:58:23 PM	ALPHALAB\Metals-Instrument
92	WG1427641-1 6020TL	3	1	10/29/2020 3:03:32 PM	ALPHALAB\Metals-Instrument
93	WG1427641-2D5 6020TL	3	1	10/29/2020 3:08:38 PM	ALPHALAB\Metals-Instrument
94	WG1427641-3D10 6020TL	3	1	10/29/2020 3:13:44 PM	ALPHALAB\Metals-Instrument
95	L2046058-07D10 MCP-6020TL-10	3	1	10/29/2020 3:18:50 PM	ALPHALAB\Metals-Instrument
96	L2046058-08D10 MCP-6020TL-10	3	1	10/29/2020 3:23:56 PM	ALPHALAB\Metals-Instrument
97	L2046058-09D10 MCP-6020TL-10	3	1	10/29/2020 3:29:03 PM	ALPHALAB\Metals-Instrument
98	L2046058-10D10 MCP-6020TL-10	3	1	10/29/2020 3:34:10 PM	ALPHALAB\Metals-Instrument
99	L2046058-11D10 MCP-6020TL-10	3	1	10/29/2020 3:39:15 PM	ALPHALAB\Metals-Instrument
100	L2046058-12D10 MCP-6020TL-10	3	1	10/29/2020 3:44:20 PM	ALPHALAB\Metals-Instrument
101	L2046368-13 MCP-6020TL-10	3	1	10/29/2020 3:49:26 PM	ALPHALAB\Metals-Instrument
102	CCV	3	1	10/29/2020 3:54:31 PM	ALPHALAB\Metals-Instrument
103	CCB	3	1	10/29/2020 3:59:40 PM	ALPHALAB\Metals-Instrument
104	WG1427641-5D10 6020TL	3	1	10/29/2020 4:08:01 PM	ALPHALAB\Metals-Instrument
105	WG1427641-4 6020TL	3	1	10/29/2020 4:13:08 PM	ALPHALAB\Metals-Instrument
106	L2046390-01 6020TL	3	1	10/29/2020 4:18:15 PM	ALPHALAB\Metals-Instrument
107	L2046818-01 6020TL	3	1	10/29/2020 4:23:21 PM	ALPHALAB\Metals-Instrument
108	L2046818-02 6020TL	3	1	10/29/2020 4:28:26 PM	ALPHALAB\Metals-Instrument
109	L2046818-03 6020TL	3	1	10/29/2020 4:33:32 PM	ALPHALAB\Metals-Instrument
110	L2046818-04 6020TL	3	1	10/29/2020 4:38:37 PM	ALPHALAB\Metals-Instrument
111	L2046818-05 6020TL	3	1	10/29/2020 4:43:43 PM	ALPHALAB\Metals-Instrument
112	WG1427641-6D5 6020TL	3	1	10/29/2020 4:48:49 PM	ALPHALAB\Metals-Instrument
113	L2046818-07 6020TL	3	1	10/29/2020 4:53:54 PM	ALPHALAB\Metals-Instrument
114	CCV	3	1	10/29/2020 4:59:00 PM	ALPHALAB\Metals-Instrument
115	CCB	3	1	10/29/2020 5:04:09 PM	ALPHALAB\Metals-Instrument
116	WG1427762-1 6020TL	3	1	10/29/2020 5:09:19 PM	ALPHALAB\Metals-Instrument
117	WG1427762-2D5 6020TL	3	1	10/29/2020 5:14:25 PM	ALPHALAB\Metals-Instrument
118	WG1427762-3D10 6020TL	3	1	10/29/2020 5:19:31 PM	ALPHALAB\Metals-Instrument
119	WG1427762-4D10 6020TL	3	1	10/29/2020 5:24:37 PM	ALPHALAB\Metals-Instrument
120	L2046818-06 6020TL	3	1	10/29/2020 5:29:43 PM	ALPHALAB\Metals-Instrument
121	L2046533-01 6020SL	3	1	10/29/2020 5:34:48 PM	ALPHALAB\Metals-Instrument
122	L2046533-02 6020SL	3	1	10/29/2020 5:39:55 PM	ALPHALAB\Metals-Instrument
123	L2046533-04 6020SL	3	1	10/29/2020 5:45:01 PM	ALPHALAB\Metals-Instrument
124	L2046533-05 6020SL	3	1	10/29/2020 5:50:08 PM	ALPHALAB\Metals-Instrument
125	L2046533-06 6020SL	3	1	10/29/2020 5:55:14 PM	ALPHALAB\Metals-Instrument
126	CCV	3	1	10/29/2020 6:00:20 PM	ALPHALAB\Metals-Instrument
127	CCB	3	1	10/29/2020 6:05:29 PM	ALPHALAB\Metals-Instrument
128	WG1427762-5D10 6020TL	3	1	10/29/2020 6:10:39 PM	ALPHALAB\Metals-Instrument
129	WG1427762-7D10 6020TL	3	1	10/29/2020 6:15:45 PM	ALPHALAB\Metals-Instrument
130	WG1427762-8D10 6020TL	3	1	10/29/2020 6:20:52 PM	ALPHALAB\Metals-Instrument
131	WG1427762-9D10 6020TL	3	1	10/29/2020 6:25:59 PM	ALPHALAB\Metals-Instrument
132	L2046750-01 6020TL	3	1	10/29/2020 6:31:05 PM	ALPHALAB\Metals-Instrument
133	L2046750-06 6020TL	3	1	10/29/2020 6:36:11 PM	ALPHALAB\Metals-Instrument
134	L2046750-02 6020TL	3	1	10/29/2020 6:41:18 PM	ALPHALAB\Metals-Instrument
135	L2046750-03 6020TL	3	1	10/29/2020 6:46:24 PM	ALPHALAB\Metals-Instrument
136	WG1427762-6D5 6020TL	3	1	10/29/2020 6:51:30 PM	ALPHALAB\Metals-Instrument

Sample List Summary

10/29/2020 9:31:17 PM

QTEGRA

Index	Label	Main runs	Survey runs	Start time	User name
137	WG1427762-10D5 6020TL	3	1	10/29/2020 6:56:36 PM	ALPHALAB\Metals-Instrument
138	CCV	3	1	10/29/2020 7:01:43 PM	ALPHALAB\Metals-Instrument
139	CCB	3	1	10/29/2020 7:06:52 PM	ALPHALAB\Metals-Instrument
140	WG1427762-11D10 6020TL	3	1	10/29/2020 7:16:23 PM	ALPHALAB\Metals-Instrument
141	WG1427762-12D10 6020TL	3	1	10/29/2020 7:21:29 PM	ALPHALAB\Metals-Instrument
142	WG1427762-13D10 6020TL	3	1	10/29/2020 7:26:35 PM	ALPHALAB\Metals-Instrument
143	L2046825-05 6020TL	3	1	10/29/2020 7:31:42 PM	ALPHALAB\Metals-Instrument
144	L2046750-04 6020TL	3	1	10/29/2020 7:36:48 PM	ALPHALAB\Metals-Instrument
145	L2046750-05 6020TL	3	1	10/29/2020 7:41:54 PM	ALPHALAB\Metals-Instrument
146	L2046750-07 6020TL	3	1	10/29/2020 7:47:01 PM	ALPHALAB\Metals-Instrument
147	L2046750-08 6020TL	3	1	10/29/2020 7:52:08 PM	ALPHALAB\Metals-Instrument
148	L2046750-03D50 6020TL	3	1	10/29/2020 7:57:15 PM	ALPHALAB\Metals-Instrument
149	WG1427762-14D5 6020TL	3	1	10/29/2020 8:02:21 PM	ALPHALAB\Metals-Instrument
150	CCV	3	1	10/29/2020 8:07:28 PM	ALPHALAB\Metals-Instrument
151	CCB	3	1	10/29/2020 8:12:37 PM	ALPHALAB\Metals-Instrument
152	WG1427575-1 CT-6020TL	3	1	10/29/2020 8:17:46 PM	ALPHALAB\Metals-Instrument
153	WG1427575-2D5 CT-6020TL	3	1	10/29/2020 8:22:53 PM	ALPHALAB\Metals-Instrument
154	L2046286-01 CT-6020TL	3	1	10/29/2020 8:28:00 PM	ALPHALAB\Metals-Instrument
155	L2046825-01 6020TL	3	1	10/29/2020 8:33:06 PM	ALPHALAB\Metals-Instrument
156	L2046825-02 6020TL	3	1	10/29/2020 8:38:13 PM	ALPHALAB\Metals-Instrument
157	L2046825-03 6020TL	3	1	10/29/2020 8:43:20 PM	ALPHALAB\Metals-Instrument
158	L2046825-04 6020TL	3	1	10/29/2020 8:48:26 PM	ALPHALAB\Metals-Instrument
159	L2046825-06 6020TL	3	1	10/29/2020 8:53:33 PM	ALPHALAB\Metals-Instrument
160	CCV	3	1	10/29/2020 8:58:39 PM	ALPHALAB\Metals-Instrument
161	CCB	3	1	10/29/2020 9:03:48 PM	ALPHALAB\Metals-Instrument
162	CCV	3	1	10/29/2020 9:13:02 PM	ALPHALAB\Metals-Instrument
163	LLCCV	3	1	10/29/2020 9:18:11 PM	ALPHALAB\Metals-Instrument
164	CCB	3	1	10/29/2020 9:23:21 PM	ALPHALAB\Metals-Instrument

METALS ELN REPORT

Workgroup: WG1427631

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHNO3204101000VW	1:1 HCl	tHCl2044261728CH	METALS	METSPIKE2	IPS,FPS,MIX	METPSMS	IPS,FPS,MIX	140

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2046201-01 SAMP	10/28/20 16:14	Christine Hamor	50	<2		10/28/20 16:14	7	95.5	10/28/20 19:14	50	
L2046201-02 SAMP	10/28/20 16:14	Christine Hamor	50	<2		10/28/20 16:14	7	95.5	10/28/20 19:14	50	
L2046625-01 WATER	10/28/20 16:14	Christine Hamor	50	<2		10/28/20 16:14	7	95.5	10/28/20 19:14	50	
L2046625-02 WATER	10/28/20 16:14	Christine Hamor	50	<2		10/28/20 16:14	7	95.5	10/28/20 19:14	50	
L2046625-03 WATER	10/28/20 16:14	Christine Hamor	50	<2		10/28/20 16:14	7	95.5	10/28/20 19:14	50	
L2046790-01 WATER	10/28/20 16:14	Christine Hamor	50	<2		10/28/20 16:14	7	95.5	10/28/20 19:14	50	
L2046790-02 WATER	10/28/20 16:14	Christine Hamor	50	<2		10/28/20 16:14	7	95.5	10/28/20 19:14	50	
L2046790-03 WATER	10/28/20 16:14	Christine Hamor	50	<2		10/28/20 16:14	7	95.5	10/28/20 19:14	50	
L2046790-04 WATER	10/28/20 16:14	Christine Hamor	50	<2		10/28/20 16:14	7	95.5	10/28/20 19:14	50	
WG1427631-1 BLANK	10/28/20 16:14	Christine Hamor	50	<2		10/28/20 16:14	7	95.5	10/28/20 19:14	50	IPS2040010934EW, FPS2040011001EW, MIX2043211518VW
WG1427631-2 LCS	10/28/20 16:14	Christine Hamor	50	<2	.5	10/28/20 16:14	7	95.5	10/28/20 19:14	50	
WG1427631-3 MS	10/28/20 16:14	Christine Hamor	50	<2	.5	10/28/20 16:14	7	95.5	10/28/20 19:14	50	

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METALS ELN REPORT

Workgroup: WG1427631

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
WG1427631-4 DUP	10/28/20 16:14	Christine Hamor	50	<2		10/28/20 16:14	7	95.5	10/28/20 19:14	50	
WG1427631-5 PS	10/28/20 16:14	Christine Hamor	50	<2		10/28/20 16:14	7	95.5	10/28/20 19:14	50	
WG1427631-6 SERDIL	10/28/20 16:14	Christine Hamor	50	<2		10/28/20 16:14	7	95.5	10/28/20 19:14	50	

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Reported: 06-JAN-21 02:06 PM

METALS ELN REPORT

Workgroup: WG1427727

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHNO3204101000VW	1:1 HCl	tHCl2041050914CH	METALS	METSPIKE2	IPS,FPS,MIX	METPSMS	IPS,FPS,MIX	140

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol ml	Comments
L2046625-01 WATER	10/28/20 23:15	Lily Fisher	10-28-20 10:57	50	<2		10/28/20 23:15	1	95.0	10/29/20 02:15	50	
L2046625-02 WATER	10/28/20 23:15	Lily Fisher	10-28-20 10:57	50	<2		10/28/20 23:15	1	95.0	10/29/20 02:15	50	
L2046625-03 WATER	10/28/20 23:15	Lily Fisher	10-28-20 10:57	50	<2		10/28/20 23:15	1	95.0	10/29/20 02:15	50	
L2046790-01 WATER	10/28/20 23:15	Lily Fisher	10-28-20 10:57	50	<2		10/28/20 23:15	1	95.0	10/29/20 02:15	50	
L2046790-02 WATER	10/28/20 23:15	Lily Fisher	10-28-20 10:57	50	<2		10/28/20 23:15	1	95.0	10/29/20 02:15	50	
L2046790-03 WATER	10/28/20 23:15	Lily Fisher	10-28-20 10:57	50	<2		10/28/20 23:15	1	95.0	10/29/20 02:15	50	
L2046790-04 WATER	10/28/20 23:15	Lily Fisher	10-28-20 10:57	50	<2		10/28/20 23:15	1	95.0	10/29/20 02:15	50	
WG1427727-1 BLANK	10/28/20 23:15	Lily Fisher	10/28/20 10:57	50	<2		10/28/20 23:15	1	95.0	10/29/20 02:15	50	IPS2040010934EW, FPS2040011001EW, MIX2043211518VW
WG1427727-2 LCS	10/28/20 23:15	Lily Fisher	NA	50	<2	0.5	10/28/20 23:15	1	95.0	10/29/20 02:15	50	
WG1427727-3 MS	10/28/20 23:15	Lily Fisher	NA	50	<2	0.5	10/28/20 23:15	1	95.0	10/29/20 02:15	50	
WG1427727-4 DUP	10/28/20 23:15	Lily Fisher	NA	50	<2		10/28/20 23:15	1	95.0	10/29/20 02:15	50	
WG1427727-5 PS	10/28/20 23:15	Lily Fisher	NA	50	<2		10/28/20 23:15	1	95.0	10/29/20 02:15	50	

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METALS ELN REPORT

Workgroup: WG1427727

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol ml	Comments
WG1427727-6 SERDIL	10/28/20 23:15	Lily Fisher	NA	50	<2		10/28/20 23:15	1	95.0	10/29/20 02:15	50	

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Reported: 06-JAN-21 02:06 PM

Inorganic Data
(Mercury Analysis)

Form 1
METALS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-01	**Date Collected**	: 10/27/20 08:15
Client ID	: MW-1	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 10:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: EW
Lab File ID	: WG1427882	**Instrument ID**	: FIMS4
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 10/29/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-02	**Date Collected**	: 10/27/20 09:30
Client ID	: MW-2	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 10:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: EW
Lab File ID	: WG1427882	**Instrument ID**	: FIMS4
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 10/29/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-03	**Date Collected**	: 10/27/20 10:15
Client ID	: MW-3	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 10:32
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: EW
Lab File ID	: WG1427882	**Instrument ID**	: FIMS4
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 10/29/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-04	**Date Collected**	: 10/27/20 08:45
Client ID	: TWP-1	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 10:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: EW
Lab File ID	: WG1427882	**Instrument ID**	: FIMS4
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 10/29/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: WG1427728-1	**Date Collected**	: NA
Client ID	: WG1427728-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 10/29/20 10:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: EW
Lab File ID	: WG1427882	**Instrument ID**	: FIMS4
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 10/29/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: WG1427728-4	**Date Collected**	: 10/26/20 11:30
Client ID	: WG1427728-4 DUP	**Date Received**	: 10/27/20
Sample Location	:	**Date Analyzed**	: 10/29/20 10:14
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: EW
Lab File ID	: WG1427882	**Instrument ID**	: FIMS4
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 10/29/20

			mg/l		
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.0001	U

Form 1
METALS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-01	**Date Collected**	: 10/27/20 08:15
Client ID	: MW-1	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 11:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: EW
Lab File ID	: WG1427882	**Instrument ID**	: FIMS4
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 10/28/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-02	**Date Collected**	: 10/27/20 09:30
Client ID	: MW-2	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 11:32
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: EW
Lab File ID	: WG1427882	**Instrument ID**	: FIMS4
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 10/28/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-03	**Date Collected**	: 10/27/20 10:15
Client ID	: MW-3	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 11:39
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: EW
Lab File ID	: WG1427882	**Instrument ID**	: FIMS4
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 10/28/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-04	**Date Collected**	: 10/27/20 08:45
Client ID	: TWP-1	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 11:41
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: EW
Lab File ID	: WG1427882	**Instrument ID**	: FIMS4
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 10/28/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: WG1427632-1	**Date Collected**	: NA
Client ID	: WG1427632-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 10/29/20 11:14
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: EW
Lab File ID	: WG1427882	**Instrument ID**	: FIMS4
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 10/28/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: WG1427632-4	**Date Collected**	: 10/26/20 11:30
Client ID	: WG1427632-4 DUP	**Date Received**	: 10/27/20
Sample Location	:	**Date Analyzed**	: 10/29/20 11:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: EW
Lab File ID	: WG1427882	**Instrument ID**	: FIMS4
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 10/28/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.0001	U

Form 2A
Initial and Continuing Calibration Verification

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: FIMS4	**Units**	: mg/l

		Initial Calibration			Continuing Calibration(s)						
Lab ID	:	R1366661-8			R1366661-11			R1366661-13		R1366661-15	
Date Analyzed	:	10/29/20 07:37			10/29/20 08:04			10/29/20 08:31		10/29/20 08:59	
Parameter		**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury		0.00300	0.0031	103	0.0100	0.0103	103	0.0104	104	0.0105	105

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: FIMS4	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1366661-17			R1366661-19		R1366661-21	
Date Analyzed :				10/29/20 09:26			10/29/20 09:54		10/29/20 10:21	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0100	0.0104	104	0.0102	102	0.0101	101

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: FIMS4	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1366661-23						
Date Analyzed :				10/29/20 11:07						
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0100	0.0101	101				

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: FIMS4	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1366661-8			R1366661-11			R1366661-13		R1366661-15	
Date Analyzed :	10/29/20 07:37			10/29/20 08:04			10/29/20 08:31		10/29/20 08:59	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury	0.00300	0.0031	103	0.0100	0.0103	103	0.0104	104	0.0105	105

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: FIMS4	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1366661-17			R1366661-19		R1366661-21	
Date Analyzed :				10/29/20 09:26			10/29/20 09:54		10/29/20 10:21	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0100	0.0104	104	0.0102	102	0.0101	101

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: FIMS4	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1366661-23			R1366661-25		R1366661-27	
Date Analyzed :				10/29/20 11:07			10/29/20 11:34		10/29/20 12:02	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0100	0.0101	101	0.0102	102	0.0104	104

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 3
Blanks

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: FIMS4		

	Initial Calibration Blank	Continuing Calibration Blank(s)			Preparation Blank
Lab ID :	R1366661-9	R1366661-12	R1366661-14	R1366661-16	WG1427728-1
Date Analyzed :	10/29/20 07:39	10/29/20 08:06	10/29/20 08:34	10/29/20 09:01	10/29/20 10:05

Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Mercury	0.0000915	U	0.0000915	U	0.0000915	U	0.0000915	U	0.00009	U

Form 3
Blanks

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: FIMS4		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1366661-18		R1366661-20		R1366661-22			
Date Analyzed :			10/29/20 09:28		10/29/20 09:56		10/29/20 10:23			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000915	U	0.0000915	U	0.0000915	U		

Form 3
Blanks

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: FIMS4		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1366661-24							
Date Analyzed :			10/29/20 11:09							
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000915	U						

Form 3
Blanks

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: FIMS4		

	Initial Calibration Blank	Continuing Calibration Blank(s)			Preparation Blank
Lab ID :	R1366661-9	R1366661-12	R1366661-14	R1366661-16	WG1427632-1
Date Analyzed :	10/29/20 07:39	10/29/20 08:06	10/29/20 08:34	10/29/20 09:01	10/29/20 11:14

Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Mercury	0.0000915	U	0.0000915	U	0.0000915	U	0.0000915	U	0.00009	U

Form 3
Blanks

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: FIMS4		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1366661-18		R1366661-20		R1366661-22			
Date Analyzed :			10/29/20 09:28		10/29/20 09:56		10/29/20 10:23			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000915	U	0.0000915	U	0.0000915	U		

Form 3
Blanks

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: FIMS4		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1366661-24		R1366661-26		R1366661-28			
Date Analyzed :			10/29/20 11:09		10/29/20 11:36		10/29/20 12:04			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000915	U	0.0000915	U	0.0000915	U		

Form 5a
Matrix Spike

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2046625-01		
Matrix Spike	: WG1427728-3	**MS Analysis Date**	: 10/29/20 10:12
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Dissolved	**ND**	**0.005**	**0.00509**	**102**					**75-125**	**20**

Form 5a
Matrix Spike

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2046625-01		
Matrix Spike	: WG1427632-3	**MS Analysis Date**	: 10/29/20 11:20
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Total	**ND**	**0.005**	**0.00518**	**104**					**75-125**	**20**

Form 6
Lab Duplicates

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 10/29/20 10:10
Dup Sample ID	: WG1427728-4	**DUP Analysis Date**	: 10/29/20 10:14

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Mercury, Dissolved	ND	ND	NC	20

Form 6
Lab Duplicates

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 10/29/20 11:18
Dup Sample ID	: WG1427632-4	**DUP Analysis Date**	: 10/29/20 11:23

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Mercury, Total	ND	ND	NC	20

Form 7
Laboratory Control Sample

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1427728-2	**LCS Analysis Date**	: 10/29/20 10:07
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Dissolved	**0.00100**	**0.00112**	**112.**					**80-120**	**20**

Form 7
Laboratory Control Sample

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1427632-2	**LCS Analysis Date**	: 10/29/20 11:16
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Total	**0.00100**	**0.00107**	**107.**					**80-120**	**20**

Form 12
Preparation Log

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Matrix	: WATER	**Prep Method**	: EPA 7470A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2046790-01	10/29/20 02:50	-	25
L2046790-02	10/29/20 02:50	-	25
L2046790-03	10/29/20 02:50	-	25
L2046790-04	10/29/20 02:50	-	25
WG1427728-1	10/29/20 02:50	-	25
WG1427728-2	10/29/20 02:50	-	25
WG1427728-3	10/29/20 02:50	-	25
WG1427728-4	10/29/20 02:50	-	25

Form 12
Preparation Log

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Matrix	: WATER	**Prep Method**	: EPA 7470A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2046790-01	10/28/20 16:18	-	25
L2046790-02	10/28/20 16:18	-	25
L2046790-03	10/28/20 16:18	-	25
L2046790-04	10/28/20 16:18	-	25
WG1427632-1	10/28/20 16:18	-	25
WG1427632-2	10/28/20 16:18	-	25
WG1427632-3	10/28/20 16:18	-	25
WG1427632-4	10/28/20 16:18	-	25

Form 13
Analysis Run Log

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: FIMS4	**Analysis Method**	: 1,7470A
Start Date	: 10/29/20 07:23	**End Date**	: 10/29/20 11:09

Sample Number	Dilution Factor	Analysis Time	Mercury, Dissolved
R1366661-8 ICV	1	07:37:02	X
R1366661-9 ICB	1	07:39:18	X
R1366661-11 CCV	1	08:04:23	X
R1366661-12 CCB	1	08:06:39	X
R1366661-13 CCV	1	08:31:44	X
R1366661-14 CCB	1	08:34:00	X
R1366661-15 CCV	1	08:59:07	X
R1366661-16 CCB	1	09:01:23	X
R1366661-17 CCV	1	09:26:33	X
R1366661-18 CCB	1	09:28:50	X
R1366661-19 CCV	1	09:54:00	X
R1366661-20 CCB	1	09:56:17	X
WG1427728-1 BLANK	1	10:05:29	X
WG1427728-2 LCS	1	10:07:47	X
WG1427728-3 MS	1	10:12:20	X
WG1427728-4 DUP	1	10:14:36	X
R1366661-21 CCV	1	10:21:28	X
R1366661-22 CCB	1	10:23:45	X
L2046790-01	1	10:28:19	X
L2046790-02	1	10:30:37	X
L2046790-03	1	10:32:53	X
L2046790-04	1	10:53:31	X
R1366661-23 CCV	1	11:07:13	X
R1366661-24 CCB	1	11:09:30	X

Form 13
Analysis Run Log

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: FIMS4	**Analysis Method**	: 1,7470A
Start Date	: 10/29/20 07:23	**End Date**	: 10/29/20 12:04

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
R1366661-8 ICV	1	07:37:02	X
R1366661-9 ICB	1	07:39:18	X
R1366661-11 CCV	1	08:04:23	X
R1366661-12 CCB	1	08:06:39	X
R1366661-13 CCV	1	08:31:44	X
R1366661-14 CCB	1	08:34:00	X
R1366661-15 CCV	1	08:59:07	X
R1366661-16 CCB	1	09:01:23	X
R1366661-17 CCV	1	09:26:33	X
R1366661-18 CCB	1	09:28:50	X
R1366661-19 CCV	1	09:54:00	X
R1366661-20 CCB	1	09:56:17	X
R1366661-21 CCV	1	10:21:28	X
R1366661-22 CCB	1	10:23:45	X
R1366661-23 CCV	1	11:07:13	X
R1366661-24 CCB	1	11:09:30	X
WG1427632-1 BLANK	1	11:14:03	X
WG1427632-2 LCS	1	11:16:20	X
WG1427632-3 MS	1	11:20:53	X
WG1427632-4 DUP	1	11:23:11	X
L2046790-01	1	11:30:03	X
L2046790-02	1	11:32:19	X
R1366661-25 CCV	1	11:34:37	X
R1366661-26 CCB	1	11:36:54	X
L2046790-03	1	11:39:11	X
L2046790-04	1	11:41:28	X
R1366661-27 CCV	1	12:02:01	X

Form 13
Analysis Run Log

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Instrument ID	: FIMS4	**Analysis Method**	: 1,7470A
Start Date	: 10/29/20 07:23	**End Date**	: 10/29/20 12:04

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
R1366661-28 CCB	1	12:04:18	X

Date Created: 03/19/18
Created By: Jason Hebert
File: PM4631-1
Page: 1

MERCURY by 7470A, 245.1 (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120	20	75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 03/19/18
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MERCURY by 7470A, 245.1 (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120	20	75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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File: PM2962-1
Page: 1

METALS by 7471B (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0800	0.0169	mg/kg	72-128		80-120	20	20		28 days	1 - Metals Only - Glass 60mL/2oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

==========

Analysis Begun

Logged In Analyst: metals-instrument **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: S10**

Sample Information File: C:\data-AA\Alpha\Sample Information\Untitled.SIF
Batch ID: EW
Results Data Set: HG102920A
Results Library: C:\data-AA\Alpha\Results\Results.mdb

REVIEWED
By dmorisseau at 9:24 am, Oct 30, 2020

==========

Method Loaded
Method Name: 0.2-20ppb AQ102416 **Method Last Saved: 10/21/2020 07:13:45**
Method Description: 0, 0.2, 1, 2, 5, 10, 20 ppb

==========

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: Calib Blank **Date Collected: 10/29/2020 07:18:31**
Analyst: **Data Type: Original**

Replicate Data: Calib Blank

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0002	0.0007	0.0002	07:19:36	Yes
2		[0.00]	0.0002	0.0008	0.0002	07:20:11	Yes
3		[0.00]	0.0001	0.0003	0.0001	07:20:46	Yes
Mean:		[0.00]	0.0001				
SD:		0.00	0.0000				
%RSD:		0.00	16.38				

Auto-zero performed.

==========

Sequence No.: 2 **Autosampler Location: 2**
Sample ID: 0.2 ppb **Date Collected: 10/29/2020 07:20:47**
Analyst: **Data Type: Original**

Replicate Data: 0.2 ppb

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.0027	0.0144	0.0028	07:21:52	Yes
2		[0.2]	0.0027	0.0149	0.0028	07:22:27	Yes
3		[0.2]	0.0026	0.0148	0.0028	07:23:02	Yes
Mean:		[0.2]	0.0027				
SD:		0.0	0.0000				
%RSD:		0.0	0.55				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.01328 Intercept: 0.00000

==========

Sequence No.: 3 **Autosampler Location: 3**
Sample ID: 1.0 ppb **Date Collected: 10/29/2020 07:23:04**
Analyst: **Data Type: Original**

Replicate Data: 1.0 ppb

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[1]	0.0136	0.0727	0.0137	07:24:09	Yes
2		[1]	0.0134	0.0726	0.0136	07:24:44	Yes
3		[1]	0.0136	0.0714	0.0137	07:25:19	Yes
Mean:		[1]	0.0135				
SD:		0	0.0001				
%RSD:		0	0.57				

Standard number 2 applied. [1]
Correlation Coef.: 0.999982 Slope: 0.01350 Intercept: 0.00000

==========

Sequence No.: 4 **Autosampler Location: 4**
Sample ID: 2.0 ppb **Date Collected: 10/29/2020 07:25:20**
Analyst: **Data Type: Original**

Replicate Data: 2.0 ppb

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	[2]	0.0272	0.1441	0.0273	07:26:25	Yes
2	[2]	0.0277	0.1462	0.0279	07:27:00	Yes
3	[2]	0.0273	0.1452	0.0274	07:27:35	Yes
Mean:	[2]	0.0274				
SD:	0	0.0003				
%RSD:	0	1.07				

Standard number 3 applied. [2]
Correlation Coef.: 0.999949 Slope: 0.01365 Intercept: 0.00000

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: 5.0 ppb **Date Collected: 10/29/2020 07:27:36**
Analyst: **Data Type: Original**

Replicate Data: 5.0 ppb

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5]	0.0687	0.3638	0.0689	07:28:42	Yes
2		[5]	0.0684	0.3619	0.0686	07:29:17	Yes
3		[5]	0.0709	0.3714	0.0711	07:29:52	Yes
Mean:		[5]	0.0694				
SD:		0	0.0014				
%RSD:		0	1.95				

Standard number 4 applied. [5]
Correlation Coef.: 0.999954 Slope: 0.01383 Intercept: 0.00000

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: 10.0 ppb **Date Collected: 10/29/2020 07:29:53**
Analyst: **Data Type: Original**

Replicate Data: 10.0 ppb

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10]	0.1325	0.7118	0.1327	07:30:58	Yes
2		[10]	0.1330	0.7052	0.1332	07:31:33	Yes
3		[10]	0.1326	0.7069	0.1328	07:32:09	Yes
Mean:		[10]	0.1327				
SD:		0	0.0003				
%RSD:		0	0.20				

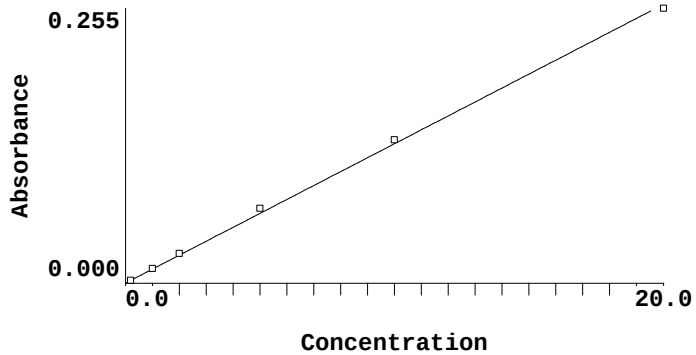
Standard number 5 applied. [10]
Correlation Coef.: 0.999673 Slope: 0.01341 Intercept: 0.00000

Sequence No.: 7 **Autosampler Location: 7**
Sample ID: 20.0 ppb **Date Collected: 10/29/2020 07:32:10**
Analyst: **Data Type: Original**

Replicate Data: 20.0 ppb

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[20]	0.2579	1.3926	0.2580	07:33:17	Yes
2		[20]	0.2532	1.3485	0.2533	07:33:52	Yes
3		[20]	0.2528	1.3718	0.2530	07:34:27	Yes
Mean:		[20]	0.2546				
SD:		0	0.0028				
%RSD:		0	1.11				

Standard number 6 applied. [20]
Correlation Coef.: 0.999457 Slope: 0.01290 Intercept: 0.00000



Calibration data for Hg 253.7 **Equation: Linear Through Zero**

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
Calib Blank	0.0000	0	0.0000	0.00	16.4
0.2 ppb	0.0027	0.2	0.2058	0.00	0.5
1.0 ppb	0.0135	1.0	1.0472	0.00	0.6
2.0 ppb	0.0274	2.0	2.1220	0.00	1.1
5.0 ppb	0.0694	5.0	5.3748	0.00	1.9
10.0 ppb	0.1327	10.0	10.2866	0.00	0.2
20.0 ppb	0.2546	20.0	19.7328	0.00	1.1

Correlation Coef.: 0.999457 Slope: 0.01290 Intercept: 0.00000

==========

Sequence No.: 8 **Autosampler Location: 8**
Sample ID: ICV **Date Collected: 10/29/2020 07:34:46**
Analyst: **Data Type: Original**

Replicate Data: ICV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.074	3.074	0.0397	0.2089	0.0398	07:35:52	Yes
2	3.121	3.121	0.0403	0.2114	0.0404	07:36:27	Yes
3	3.077	3.077	0.0397	0.2094	0.0399	07:37:02	Yes
Mean:	3.091	3.091	0.0399				
SD:	0.0265	0.0265	0.0003				
%RSD:	0.8558	0.8558	0.86				

QC value within limits for Hg 253.7 Recovery = 103.03%
All analyte(s) passed QC.

==========

Sequence No.: 9 **Autosampler Location: 9**
Sample ID: ICB **Date Collected: 10/29/2020 07:37:03**
Analyst: **Data Type: Original**

Replicate Data: ICB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0032	0.0032	0.0000	0.0006	0.0002	07:38:09	Yes
2	0.0040	0.0040	0.0001	0.0006	0.0002	07:38:43	Yes
3	0.0051	0.0051	0.0001	0.0009	0.0002	07:39:18	Yes
Mean:	0.0041	0.0041	0.0001				
SD:	0.0010	0.0010	0.0000				
%RSD:	23.31	23.31	23.31				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 10 **Autosampler Location: 2**
Sample ID: 0.2 PPB **Date Collected: 10/29/2020 07:39:20**
Analyst: **Data Type: Original**

Replicate Data: 0.2 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.2051	0.2051	0.0026	0.0143	0.0028	07:40:25	Yes
2	0.2110	0.2110	0.0027	0.0147	0.0029	07:41:00	Yes
3	0.2055	0.2055	0.0027	0.0147	0.0028	07:41:35	Yes
Mean:	0.2072	0.2072	0.0027				
SD:	0.0033	0.0033	0.0000				
%RSD:	1.604	1.604	1.60				

==========

Sequence No.: 11 **Autosampler Location: 12**
Sample ID: WG1427618-1 U **Date Collected: 10/29/2020 07:41:36**
Analyst: **Data Type: Original**

Replicate Data: WG1427618-1 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.0088	-0.0088	-0.0001	-0.0003	0.0000	07:42:42	Yes
2	-0.0036	-0.0036	-0.0000	0.0001	0.0001	07:43:17	Yes
3	0.0014	0.0014	0.0000	0.0010	0.0002	07:43:52	Yes
Mean:	-0.0037	-0.0037	-0.0000				
SD:	0.0051	0.0051	0.0001				

%RSD: 139.7 139.7 139.67

==========

Sequence No.: 12 **Autosampler Location: 13**
Sample ID: WG1427618-2 U **Date Collected: 10/29/2020 07:43:53**
Analyst: **Data Type: Original**

Replicate Data: WG1427618-2 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.129	1.129	0.0146	0.0789	0.0147	07:44:58	Yes
2	1.087	1.087	0.0140	0.0747	0.0142	07:45:33	Yes
3	1.102	1.102	0.0142	0.0763	0.0144	07:46:08	Yes
Mean:	1.106	1.106	0.0143				
SD:	0.0212	0.0212	0.0003				
%RSD:	1.919	1.919	1.92				

==========

Sequence No.: 13 **Autosampler Location: 14**
Sample ID: L2046799-01 U **Date Collected: 10/29/2020 07:46:09**
Analyst: **Data Type: Original**

Replicate Data: L2046799-01 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.0013	-0.0013	-0.0000	0.0004	0.0001	07:47:16	Yes
2	-0.0019	-0.0019	-0.0000	0.0006	0.0001	07:47:51	Yes
3	-0.0034	-0.0034	-0.0000	0.0001	0.0001	07:48:26	Yes
Mean:	-0.0022	-0.0022	-0.0000				
SD:	0.0011	0.0011	0.0000				
%RSD:	49.54	49.54	49.54				

==========

Sequence No.: 14 **Autosampler Location: 15**
Sample ID: WG1427618-3 U **Date Collected: 10/29/2020 07:48:27**
Analyst: **Data Type: Original**

Replicate Data: WG1427618-3 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.069	4.069	0.0525	0.3063	0.0526	07:49:33	Yes
2	4.089	4.089	0.0528	0.3069	0.0529	07:50:08	Yes
3	4.094	4.094	0.0528	0.3069	0.0530	07:50:43	Yes
Mean:	4.084	4.084	0.0527				
SD:	0.0136	0.0136	0.0002				
%RSD:	0.3331	0.3331	0.33				

==========

Sequence No.: 15 **Autosampler Location: 16**
Sample ID: WG1427618-4 U **Date Collected: 10/29/2020 07:50:44**
Analyst: **Data Type: Original**

Replicate Data: WG1427618-4 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0018	0.0018	0.0000	0.0008	0.0002	07:51:49	Yes
2	-0.0027	-0.0027	-0.0000	0.0006	0.0001	07:52:24	Yes
3	0.0005	0.0005	0.0000	0.0007	0.0002	07:52:59	Yes
Mean:	-0.0002	-0.0002	-0.0000				
SD:	0.0023	0.0023	0.0000				
%RSD:	>999.9%	>999.9%	>999.9%				

==========

Sequence No.: 16 **Autosampler Location: 17**
Sample ID: L2046131-01 U **Date Collected: 10/29/2020 07:53:00**
Analyst: **Data Type: Original**

Replicate Data: L2046131-01 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0002	0.0002	0.0000	0.0010	0.0001	07:54:06	Yes
2	-0.0009	-0.0009	-0.0000	0.0011	0.0001	07:54:41	Yes
3	-0.0061	-0.0061	-0.0001	-0.0001	0.0001	07:55:16	Yes
Mean:	-0.0023	-0.0023	-0.0000				

SD:	0.0034	0.0034	0.0000
%RSD:	148.6	148.6	148.55

==========

Sequence No.: 17 **Autosampler Location: 18**
Sample ID: L2046131-02 U **Date Collected: 10/29/2020 07:55:17**
Analyst: **Data Type: Original**

Replicate Data: L2046131-02 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.0040	-0.0040	-0.0001	0.0004	0.0001	07:56:22	Yes
2	-0.0043	-0.0043	-0.0001	0.0006	0.0001	07:56:57	Yes
3	-0.0020	-0.0020	-0.0000	0.0005	0.0001	07:57:32	Yes
Mean:	-0.0034	-0.0034	-0.0000				
SD:	0.0013	0.0013	0.0000				
%RSD:	37.42	37.42	37.42				

==========

Sequence No.: 18 **Autosampler Location: 19**
Sample ID: L2046190-01 U **Date Collected: 10/29/2020 07:57:34**
Analyst: **Data Type: Original**

Replicate Data: L2046190-01 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.7351	0.7351	0.0095	0.0509	0.0096	07:58:39	Yes
2	0.7324	0.7324	0.0095	0.0503	0.0096	07:59:14	Yes
3	0.7294	0.7294	0.0094	0.0496	0.0096	07:59:49	Yes
Mean:	0.7323	0.7323	0.0094				
SD:	0.0029	0.0029	0.0000				
%RSD:	0.3899	0.3899	0.39				

==========

Sequence No.: 19 **Autosampler Location: 20**
Sample ID: L2046193-01 U **Date Collected: 10/29/2020 07:59:51**
Analyst: **Data Type: Original**

Replicate Data: L2046193-01 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.840	1.840	0.0237	0.1304	0.0239	08:00:56	Yes
2	1.834	1.834	0.0237	0.1316	0.0238	08:01:31	Yes
3	1.831	1.831	0.0236	0.1314	0.0238	08:02:06	Yes
Mean:	1.835	1.835	0.0237				
SD:	0.0048	0.0048	0.0001				
%RSD:	0.2614	0.2614	0.26				

==========

Sequence No.: 20 **Autosampler Location: 10**
Sample ID: CCV **Date Collected: 10/29/2020 08:02:07**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.39	10.39	0.1341	0.7097	0.1342	08:03:13	Yes
2	10.16	10.16	0.1311	0.7037	0.1313	08:03:48	Yes
3	10.37	10.37	0.1338	0.7003	0.1339	08:04:23	Yes
Mean:	10.31	10.31	0.1330				
SD:	0.1257	0.1257	0.0016				
%RSD:	1.219	1.219	1.22				

QC value within limits for Hg 253.7 Recovery = 103.07%
All analyte(s) passed QC.

==========

Sequence No.: 21 **Autosampler Location: 11**
Sample ID: CCB **Date Collected: 10/29/2020 08:04:24**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0012	0.0012	0.0000	0.0002	0.0002	08:05:29	Yes

2	0.0006	0.0006	0.0000	0.0002	0.0002	08:06:04	Yes
3	-0.0004	-0.0004	-0.0000	0.0000	0.0001	08:06:39	Yes
Mean:	0.0005	0.0005	0.0000				
SD:	0.0008	0.0008	0.0000				
%RSD:	173.3	173.3	173.31				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 22 **Autosampler Location: 21**
Sample ID: L2046200-01 U **Date Collected: 10/29/2020 08:06:40**
Analyst: **Data Type: Original**

Replicate Data: L2046200-01 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.1477	0.1477	0.0019	0.0110	0.0021	08:07:46	Yes
2	0.1445	0.1445	0.0019	0.0105	0.0020	08:08:21	Yes
3	0.1474	0.1474	0.0019	0.0108	0.0020	08:08:56	Yes
Mean:	0.1466	0.1466	0.0019				
SD:	0.0018	0.0018	0.0000				
%RSD:	1.194	1.194	1.19				

==========

Sequence No.: 23 **Autosampler Location: 22**
Sample ID: L2046548-01 U **Date Collected: 10/29/2020 08:08:58**
Analyst: **Data Type: Original**

Replicate Data: L2046548-01 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.0028	-0.0028	-0.0000	0.0003	0.0001	08:10:03	Yes
2	0.0006	0.0006	0.0000	0.0008	0.0002	08:10:38	Yes
3	0.0002	0.0002	0.0000	0.0009	0.0002	08:11:13	Yes
Mean:	-0.0006	-0.0006	-0.0000				
SD:	0.0019	0.0019	0.0000				
%RSD:	287.7	287.7	287.67				

==========

Sequence No.: 24 **Autosampler Location: 23**
Sample ID: L2046703-01 U **Date Collected: 10/29/2020 08:11:14**
Analyst: **Data Type: Original**

Replicate Data: L2046703-01 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0031	0.0031	0.0000	0.0010	0.0002	08:12:20	Yes
2	0.0032	0.0032	0.0000	0.0010	0.0002	08:12:55	Yes
3	0.0045	0.0045	0.0001	0.0010	0.0002	08:13:30	Yes
Mean:	0.0036	0.0036	0.0000				
SD:	0.0008	0.0008	0.0000				
%RSD:	22.13	22.13	22.13				

==========

Sequence No.: 25 **Autosampler Location: 24**
Sample ID: L2046717-01 U **Date Collected: 10/29/2020 08:13:31**
Analyst: **Data Type: Original**

Replicate Data: L2046717-01 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.0002	-0.0002	-0.0000	0.0009	0.0001	08:14:36	Yes
2	-0.0001	-0.0001	-0.0000	0.0008	0.0001	08:15:11	Yes
3	-0.0036	-0.0036	-0.0000	0.0004	0.0001	08:15:46	Yes
Mean:	-0.0013	-0.0013	-0.0000				
SD:	0.0020	0.0020	0.0000				
%RSD:	151.4	151.4	151.42				

==========

Sequence No.: 26 **Autosampler Location: 25**
Sample ID: L2046799-02 U **Date Collected: 10/29/2020 08:15:47**
Analyst: **Data Type: Original**

Replicate Data: L2046799-02 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.0027	-0.0027	-0.0000	0.0004	0.0001	08:16:52	Yes
2	0.0027	0.0027	0.0000	0.0012	0.0002	08:17:28	Yes
3	-0.0012	-0.0012	-0.0000	0.0009	0.0001	08:18:03	Yes
Mean:	-0.0004	-0.0004	-0.0000				
SD:	0.0028	0.0028	0.0000				
%RSD:	680.3	680.3	680.31				

Sequence No.: 27 **Autosampler Location: 26**
Sample ID: L2046812-02 U **Date Collected: 10/29/2020 08:18:04**
Analyst: **Data Type: Original**

Replicate Data: L2046812-02 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0606	0.0606	0.0008	0.0047	0.0009	08:19:09	Yes
2	0.0623	0.0623	0.0008	0.0047	0.0010	08:19:44	Yes
3	0.0583	0.0583	0.0008	0.0042	0.0009	08:20:19	Yes
Mean:	0.0604	0.0604	0.0008				
SD:	0.0020	0.0020	0.0000				
%RSD:	3.304	3.304	3.30				

Sequence No.: 28 **Autosampler Location: 27**
Sample ID: WG1427503-1 U **Date Collected: 10/29/2020 08:20:20**
Analyst: **Data Type: Original**

Replicate Data: WG1427503-1 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0002	0.0002	0.0000	0.0006	0.0002	08:21:25	Yes
2	-0.0021	-0.0021	-0.0000	0.0002	0.0001	08:22:00	Yes
3	0.0011	0.0011	0.0000	0.0005	0.0002	08:22:35	Yes
Mean:	-0.0003	-0.0003	-0.0000				
SD:	0.0017	0.0017	0.0000				
%RSD:	624.7	624.7	624.71				

Sequence No.: 29 **Autosampler Location: 28**
Sample ID: WG1427503-2 U **Date Collected: 10/29/2020 08:22:37**
Analyst: **Data Type: Original**

Replicate Data: WG1427503-2 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.056	1.056	0.0136	0.0723	0.0138	08:23:43	Yes
2	1.052	1.052	0.0136	0.0712	0.0137	08:24:18	Yes
3	1.103	1.103	0.0142	0.0745	0.0144	08:24:53	Yes
Mean:	1.070	1.070	0.0138				
SD:	0.0283	0.0283	0.0004				
%RSD:	2.645	2.645	2.65				

Sequence No.: 30 **Autosampler Location: 29**
Sample ID: L2046364-01 U **Date Collected: 10/29/2020 08:24:55**
Analyst: **Data Type: Original**

Replicate Data: L2046364-01 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.4347	0.4347	0.0056	0.0297	0.0058	08:26:00	Yes
2	0.4379	0.4379	0.0057	0.0297	0.0058	08:26:35	Yes
3	0.4315	0.4315	0.0056	0.0295	0.0057	08:27:10	Yes
Mean:	0.4347	0.4347	0.0056				
SD:	0.0032	0.0032	0.0000				
%RSD:	0.7373	0.7373	0.74				

Sequence No.: 31 **Autosampler Location: 30**
Sample ID: WG1427503-3 U **Date Collected: 10/29/2020 08:27:11**
Analyst: **Data Type: Original**

Replicate Data: WG1427503-3 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.873	5.873	0.0758	0.3979	0.0759	08:28:16	Yes
2	5.829	5.829	0.0752	0.3947	0.0754	08:28:52	Yes
3	5.877	5.877	0.0758	0.3964	0.0760	08:29:27	Yes
Mean:	5.859	5.859	0.0756				
SD:	0.0268	0.0268	0.0003				
%RSD:	0.4570	0.4570	0.46				

==========

Sequence No.: 32 **Autosampler Location: 10**
Sample ID: CCV **Date Collected: 10/29/2020 08:29:28**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.30	10.30	0.1329	0.7080	0.1331	08:30:34	Yes
2	10.40	10.40	0.1342	0.7119	0.1344	08:31:09	Yes
3	10.49	10.49	0.1354	0.7126	0.1355	08:31:44	Yes
Mean:	10.40	10.40	0.1342				
SD:	0.0941	0.0941	0.0012				
%RSD:	0.9054	0.9054	0.91				

QC value within limits for Hg 253.7 Recovery = 103.98%
All analyte(s) passed QC.

==========

Sequence No.: 33 **Autosampler Location: 11**
Sample ID: CCB **Date Collected: 10/29/2020 08:31:45**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0059	0.0059	0.0001	0.0009	0.0002	08:32:50	Yes
2	0.0076	0.0076	0.0001	0.0013	0.0002	08:33:25	Yes
3	0.0038	0.0038	0.0000	0.0008	0.0002	08:34:00	Yes
Mean:	0.0058	0.0058	0.0001				
SD:	0.0019	0.0019	0.0000				
%RSD:	32.85	32.85	32.85				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 34 **Autosampler Location: 31**
Sample ID: WG1427503-4 U **Date Collected: 10/29/2020 08:34:01**
Analyst: **Data Type: Original**

Replicate Data: WG1427503-4 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.5236	0.5236	0.0068	0.0355	0.0069	08:35:07	Yes
2	0.5247	0.5247	0.0068	0.0357	0.0069	08:35:42	Yes
3	0.5205	0.5205	0.0067	0.0353	0.0069	08:36:17	Yes
Mean:	0.5229	0.5229	0.0067				
SD:	0.0022	0.0022	0.0000				
%RSD:	0.4195	0.4195	0.42				

==========

Sequence No.: 35 **Autosampler Location: 32**
Sample ID: L2046075-01 U **Date Collected: 10/29/2020 08:36:19**
Analyst: **Data Type: Original**

Replicate Data: L2046075-01 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.0021	-0.0021	-0.0000	0.0002	0.0001	08:37:24	Yes
2	0.0008	0.0008	0.0000	0.0009	0.0002	08:37:59	Yes
3	-0.0011	-0.0011	-0.0000	0.0004	0.0001	08:38:34	Yes
Mean:	-0.0008	-0.0008	-0.0000				
SD:	0.0015	0.0015	0.0000				
%RSD:	177.8	177.8	177.84				

==========

Sequence No.: 36 **Autosampler Location: 33**
Sample ID: L2046076-01 U **Date Collected: 10/29/2020 08:38:36**
Analyst: **Data Type: Original**

Replicate Data: L2046076-01 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0001	0.0001	0.0000	0.0010	0.0001	08:39:41	Yes
2	0.0006	0.0006	0.0000	0.0008	0.0002	08:40:16	Yes
3	-0.0017	-0.0017	-0.0000	0.0004	0.0001	08:40:51	Yes
Mean:	-0.0003	-0.0003	-0.0000				
SD:	0.0012	0.0012	0.0000				
%RSD:	350.9	350.9	350.88				

Sequence No.: 37 **Autosampler Location: 34**
Sample ID: WG1427120-1 U **Date Collected: 10/29/2020 08:40:53**
Analyst: **Data Type: Original**

Replicate Data: WG1427120-1 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.0017	-0.0017	-0.0000	0.0007	0.0001	08:41:58	Yes
2	-0.0017	-0.0017	-0.0000	0.0006	0.0001	08:42:33	Yes
3	-0.0025	-0.0025	-0.0000	0.0006	0.0001	08:43:08	Yes
Mean:	-0.0020	-0.0020	-0.0000				
SD:	0.0004	0.0004	0.0000				
%RSD:	22.61	22.61	22.61				

Sequence No.: 38 **Autosampler Location: 35**
Sample ID: WG1427120-2 U **Date Collected: 10/29/2020 08:43:09**
Analyst: **Data Type: Original**

Replicate Data: WG1427120-2 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.0025	-0.0025	-0.0000	0.0007	0.0001	08:44:16	Yes
2	0.0005	0.0005	0.0000	0.0012	0.0002	08:44:51	Yes
3	-0.0042	-0.0042	-0.0001	0.0005	0.0001	08:45:26	Yes
Mean:	-0.0021	-0.0021	-0.0000				
SD:	0.0024	0.0024	0.0000				
%RSD:	113.7	113.7	113.73				

Sequence No.: 39 **Autosampler Location: 36**
Sample ID: L2045583-01 U **Date Collected: 10/29/2020 08:45:27**
Analyst: **Data Type: Original**

Replicate Data: L2045583-01 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.7816	0.7816	0.0101	0.0536	0.0102	08:46:33	Yes
2	0.7816	0.7816	0.0101	0.0536	0.0102	08:47:08	Yes
3	0.7831	0.7831	0.0101	0.0534	0.0103	08:47:43	Yes
Mean:	0.7821	0.7821	0.0101				
SD:	0.0009	0.0009	0.0000				
%RSD:	0.1113	0.1113	0.11				

Sequence No.: 40 **Autosampler Location: 37**
Sample ID: WG1427120-3 U **Date Collected: 10/29/2020 08:47:44**
Analyst: **Data Type: Original**

Replicate Data: WG1427120-3 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.720	1.720	0.0222	0.1177	0.0223	08:48:49	Yes
2	1.722	1.722	0.0222	0.1172	0.0224	08:49:24	Yes
3	1.715	1.715	0.0221	0.1169	0.0223	08:49:59	Yes
Mean:	1.719	1.719	0.0222				
SD:	0.0036	0.0036	0.0000				
%RSD:	0.2115	0.2115	0.21				

==========

Sequence No.: 41 **Autosampler Location: 38**
Sample ID: WG1427120-4 U **Date Collected: 10/29/2020 08:50:01**
Analyst: **Data Type: Original**

Replicate Data: WG1427120-4 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.8022	0.8022	0.0104	0.0547	0.0105	08:51:06	Yes
2	0.8059	0.8059	0.0104	0.0554	0.0105	08:51:41	Yes
3	0.8045	0.8045	0.0104	0.0549	0.0105	08:52:16	Yes
Mean:	0.8042	0.8042	0.0104				
SD:	0.0018	0.0018	0.0000				
%RSD:	0.2300	0.2300	0.23				

==========

Sequence No.: 42 **Autosampler Location: 39**
Sample ID: L2045590-01 U **Date Collected: 10/29/2020 08:52:17**
Analyst: **Data Type: Original**

Replicate Data: L2045590-01 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0942	0.0942	0.0012	0.0069	0.0014	08:53:22	Yes
2	0.0935	0.0935	0.0012	0.0069	0.0014	08:53:57	Yes
3	0.0952	0.0952	0.0012	0.0069	0.0014	08:54:32	Yes
Mean:	0.0943	0.0943	0.0012				
SD:	0.0009	0.0009	0.0000				
%RSD:	0.9252	0.9252	0.93				

==========

Sequence No.: 43 **Autosampler Location: 40**
Sample ID: WG1427773-1 U **Date Collected: 10/29/2020 08:54:34**
Analyst: **Data Type: Original**

Replicate Data: WG1427773-1 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0733	0.0733	0.0009	0.0059	0.0011	08:55:39	Yes
2	0.0762	0.0762	0.0010	0.0058	0.0011	08:56:14	Yes
3	0.0676	0.0676	0.0009	0.0047	0.0010	08:56:49	Yes
Mean:	0.0724	0.0724	0.0009				
SD:	0.0044	0.0044	0.0001				
%RSD:	6.040	6.040	6.04				

==========

Sequence No.: 44 **Autosampler Location: 10**
Sample ID: CCV **Date Collected: 10/29/2020 08:56:50**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.66	10.66	0.1376	0.7204	0.1377	08:57:57	Yes
2	10.23	10.23	0.1320	0.6868	0.1321	08:58:32	Yes
3	10.46	10.46	0.1350	0.7040	0.1352	08:59:07	Yes
Mean:	10.45	10.45	0.1349				
SD:	0.2160	0.2160	0.0028				
%RSD:	2.067	2.067	2.07				

QC value within limits for Hg 253.7 Recovery = 104.52%
All analyte(s) passed QC.

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Sequence No.: 45 **Autosampler Location: 11**
Sample ID: CCB **Date Collected: 10/29/2020 08:59:08**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0093	0.0093	0.0001	0.0012	0.0003	09:00:13	Yes
2	0.0036	0.0036	0.0000	0.0004	0.0002	09:00:48	Yes
3	0.0118	0.0118	0.0002	0.0014	0.0003	09:01:23	Yes
Mean:	0.0082	0.0082	0.0001				

SD:	0.0042	0.0042	0.0001
%RSD:	50.62	50.62	50.62

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 46 **Autosampler Location: 41**
Sample ID: WG1427773-2 U **Date Collected: 10/29/2020 09:01:24**
Analyst: **Data Type: Original**

Replicate Data: WG1427773-2 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.134	1.134	0.0146	0.0764	0.0148	09:02:31	Yes
2	1.164	1.164	0.0150	0.0780	0.0152	09:03:06	Yes
3	1.171	1.171	0.0151	0.0785	0.0153	09:03:41	Yes
Mean:	1.156	1.156	0.0149				
SD:	0.0197	0.0197	0.0003				
%RSD:	1.703	1.703	1.70				

Sequence No.: 47 **Autosampler Location: 42**
Sample ID: L2046663-02 U **Date Collected: 10/29/2020 09:03:42**
Analyst: **Data Type: Original**

Replicate Data: L2046663-02 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0795	0.0795	0.0010	0.0064	0.0012	09:04:49	Yes
2	0.0806	0.0806	0.0010	0.0064	0.0012	09:05:23	Yes
3	0.0743	0.0743	0.0010	0.0059	0.0011	09:05:58	Yes
Mean:	0.0781	0.0781	0.0010				
SD:	0.0034	0.0034	0.0000				
%RSD:	4.326	4.326	4.33				

Sequence No.: 48 **Autosampler Location: 43**
Sample ID: WG1427773-3 U **Date Collected: 10/29/2020 09:06:00**
Analyst: **Data Type: Original**

Replicate Data: WG1427773-3 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.350	5.350	0.0690	0.3601	0.0692	09:07:05	Yes
2	5.527	5.527	0.0713	0.3715	0.0715	09:07:40	Yes
3	5.503	5.503	0.0710	0.3692	0.0712	09:08:15	Yes
Mean:	5.460	5.460	0.0705				
SD:	0.0962	0.0962	0.0012				
%RSD:	1.761	1.761	1.76				

Sequence No.: 49 **Autosampler Location: 44**
Sample ID: WG1427773-4 U **Date Collected: 10/29/2020 09:08:17**
Analyst: **Data Type: Original**

Replicate Data: WG1427773-4 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.514	5.514	0.0711	0.3713	0.0713	09:09:22	Yes
2	5.361	5.361	0.0692	0.3579	0.0693	09:09:57	Yes
3	5.559	5.559	0.0717	0.3721	0.0719	09:10:32	Yes
Mean:	5.478	5.478	0.0707				
SD:	0.1038	0.1038	0.0013				
%RSD:	1.895	1.895	1.89				

Sequence No.: 50 **Autosampler Location: 45**
Sample ID: L2046524-01 U **Date Collected: 10/29/2020 09:10:33**
Analyst: **Data Type: Original**

Replicate Data: L2046524-01 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0608	0.0608	0.0008	0.0055	0.0009	09:11:38	Yes

2	0.0615	0.0615	0.0008	0.0056	0.0009	09:12:13	Yes
3	0.0623	0.0623	0.0008	0.0054	0.0010	09:12:48	Yes
Mean:	0.0615	0.0615	0.0008				
SD:	0.0007	0.0007	0.0000				
%RSD:	1.199	1.199	1.20				

==========

Sequence No.: 51 **Autosampler Location: 46**
Sample ID: L2046524-02 U **Date Collected: 10/29/2020 09:12:50**
Analyst: **Data Type: Original**

Replicate Data: L2046524-02 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0381	0.0381	0.0005	0.0032	0.0006	09:13:55	Yes
2	0.0433	0.0433	0.0006	0.0042	0.0007	09:14:30	Yes
3	0.0445	0.0445	0.0006	0.0043	0.0007	09:15:05	Yes
Mean:	0.0419	0.0419	0.0005				
SD:	0.0034	0.0034	0.0000				
%RSD:	8.127	8.127	8.13				

==========

Sequence No.: 52 **Autosampler Location: 47**
Sample ID: L2046663-01 U **Date Collected: 10/29/2020 09:15:07**
Analyst: **Data Type: Original**

Replicate Data: L2046663-01 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0791	0.0791	0.0010	0.0059	0.0012	09:16:12	Yes
2	0.0782	0.0782	0.0010	0.0062	0.0012	09:16:47	Yes
3	0.0784	0.0784	0.0010	0.0060	0.0012	09:17:22	Yes
Mean:	0.0786	0.0786	0.0010				
SD:	0.0005	0.0005	0.0000				
%RSD:	0.6198	0.6198	0.62				

==========

Sequence No.: 53 **Autosampler Location: 48**
Sample ID: L2046663-03 U **Date Collected: 10/29/2020 09:17:23**
Analyst: **Data Type: Original**

Replicate Data: L2046663-03 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0810	0.0810	0.0010	0.0061	0.0012	09:18:29	Yes
2	0.0801	0.0801	0.0010	0.0058	0.0012	09:19:04	Yes
3	0.0817	0.0817	0.0011	0.0063	0.0012	09:19:39	Yes
Mean:	0.0809	0.0809	0.0010				
SD:	0.0008	0.0008	0.0000				
%RSD:	0.9942	0.9942	0.99				

==========

Sequence No.: 54 **Autosampler Location: 49**
Sample ID: L2046727-01 U **Date Collected: 10/29/2020 09:19:41**
Analyst: **Data Type: Original**

Replicate Data: L2046727-01 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0749	0.0749	0.0010	0.0059	0.0011	09:20:47	Yes
2	0.0722	0.0722	0.0009	0.0054	0.0011	09:21:22	Yes
3	0.0763	0.0763	0.0010	0.0059	0.0011	09:21:58	Yes
Mean:	0.0745	0.0745	0.0010				
SD:	0.0021	0.0021	0.0000				
%RSD:	2.779	2.779	2.78				

==========

Sequence No.: 55 **Autosampler Location: 50**
Sample ID: L2046727-02 U **Date Collected: 10/29/2020 09:21:59**
Analyst: **Data Type: Original**

Replicate Data: L2046727-02 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	0.0739	0.0739	0.0010	0.0055	0.0011	09:23:04	Yes
2	0.0733	0.0733	0.0009	0.0056	0.0011	09:23:39	Yes
3	0.0724	0.0724	0.0009	0.0054	0.0011	09:24:15	Yes
Mean:	0.0732	0.0732	0.0009				
SD:	0.0008	0.0008	0.0000				
%RSD:	1.078	1.078	1.08				

==========

Sequence No.: 56 **Autosampler Location: 10**
Sample ID: CCV **Date Collected: 10/29/2020 09:24:16**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.44	10.44	0.1347	0.6982	0.1349	09:25:23	Yes
2	10.26	10.26	0.1324	0.6907	0.1325	09:25:58	Yes
3	10.43	10.43	0.1346	0.7035	0.1347	09:26:33	Yes
Mean:	10.38	10.38	0.1339				
SD:	0.1026	0.1026	0.0013				
%RSD:	0.9884	0.9884	0.99				

QC value within limits for Hg 253.7 Recovery = 103.77%
All analyte(s) passed QC.

==========

Sequence No.: 57 **Autosampler Location: 11**
Sample ID: CCB **Date Collected: 10/29/2020 09:26:35**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0142	0.0142	0.0002	0.0015	0.0003	09:27:40	Yes
2	0.0121	0.0121	0.0002	0.0018	0.0003	09:28:15	Yes
3	0.0118	0.0118	0.0002	0.0016	0.0003	09:28:50	Yes
Mean:	0.0127	0.0127	0.0002				
SD:	0.0013	0.0013	0.0000				
%RSD:	10.13	10.13	10.13				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 58 **Autosampler Location: 51**
Sample ID: WG1427517-1 C **Date Collected: 10/29/2020 09:28:51**
Analyst: **Data Type: Original**

Replicate Data: WG1427517-1 C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0005	0.0005	0.0000	0.0008	0.0002	09:29:58	Yes
2	-0.0014	-0.0014	-0.0000	0.0008	0.0001	09:30:33	Yes
3	-0.0009	-0.0009	-0.0000	0.0007	0.0001	09:31:08	Yes
Mean:	-0.0006	-0.0006	-0.0000				
SD:	0.0010	0.0010	0.0000				
%RSD:	169.8	169.8	169.83				

==========

Sequence No.: 59 **Autosampler Location: 52**
Sample ID: WG1427517-2 C **Date Collected: 10/29/2020 09:31:10**
Analyst: **Data Type: Original**

Replicate Data: WG1427517-2 C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.008	1.008	0.0130	0.0682	0.0131	09:32:14	Yes
2	1.018	1.018	0.0131	0.0692	0.0133	09:32:49	Yes
3	1.021	1.021	0.0132	0.0688	0.0133	09:33:24	Yes
Mean:	1.016	1.016	0.0131				
SD:	0.0071	0.0071	0.0001				
%RSD:	0.7007	0.7007	0.70				

==========

Sequence No.: 60 **Autosampler Location: 53**
Sample ID: L2044986-03 C **Date Collected: 10/29/2020 09:33:26**
Analyst: **Data Type: Original**

Replicate Data: L2044986-03 C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0017	0.0017	0.0000	0.0011	0.0002	09:34:31	Yes
2	-0.0010	-0.0010	-0.0000	0.0005	0.0001	09:35:06	Yes
3	0.0034	0.0034	0.0000	0.0009	0.0002	09:35:41	Yes
Mean:	0.0014	0.0014	0.0000				
SD:	0.0022	0.0022	0.0000				
%RSD:	161.9	161.9	161.85				

==========

Sequence No.: 61 **Autosampler Location: 54**
Sample ID: WG1427517-3 C **Date Collected: 10/29/2020 09:35:42**
Analyst: **Data Type: Original**

Replicate Data: WG1427517-3 C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.146	5.146	0.0664	0.3445	0.0665	09:36:47	Yes
2	5.064	5.064	0.0653	0.3390	0.0655	09:37:22	Yes
3	5.138	5.138	0.0663	0.3444	0.0664	09:37:57	Yes
Mean:	5.116	5.116	0.0660				
SD:	0.0451	0.0451	0.0006				
%RSD:	0.8809	0.8809	0.88				

==========

Sequence No.: 62 **Autosampler Location: 55**
Sample ID: WG1427517-4 C **Date Collected: 10/29/2020 09:37:59**
Analyst: **Data Type: Original**

Replicate Data: WG1427517-4 C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0027	0.0027	0.0000	0.0010	0.0002	09:39:04	Yes
2	0.0010	0.0010	0.0000	0.0008	0.0002	09:39:39	Yes
3	0.0076	0.0076	0.0001	0.0016	0.0002	09:40:14	Yes
Mean:	0.0038	0.0038	0.0000				
SD:	0.0034	0.0034	0.0000				
%RSD:	91.18	91.18	91.18				

==========

Sequence No.: 63 **Autosampler Location: 56**
Sample ID: L2045914-01 C **Date Collected: 10/29/2020 09:40:15**
Analyst: **Data Type: Original**

Replicate Data: L2045914-01 C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.0036	-0.0036	-0.0000	0.0004	0.0001	09:41:22	Yes
2	-0.0020	-0.0020	-0.0000	0.0004	0.0001	09:41:57	Yes
3	-0.0045	-0.0045	-0.0001	0.0000	0.0001	09:42:32	Yes
Mean:	-0.0033	-0.0033	-0.0000				
SD:	0.0013	0.0013	0.0000				
%RSD:	38.64	38.64	38.64				

==========

Sequence No.: 64 **Autosampler Location: 57**
Sample ID: L2045917-01 C **Date Collected: 10/29/2020 09:42:33**
Analyst: **Data Type: Original**

Replicate Data: L2045917-01 C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.0007	-0.0007	-0.0000	0.0006	0.0001	09:43:39	Yes
2	-0.0036	-0.0036	-0.0000	0.0004	0.0001	09:44:14	Yes
3	0.0004	0.0004	0.0000	0.0007	0.0002	09:44:49	Yes
Mean:	-0.0013	-0.0013	-0.0000				
SD:	0.0021	0.0021	0.0000				
%RSD:	162.3	162.3	162.32				

==========

Sequence No.: 65 **Autosampler Location: 58**
Sample ID: L2045966-01 C **Date Collected: 10/29/2020 09:44:50**

Analyst: **Data Type: Original**

Replicate Data: L2045966-01 C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.0011	-0.0011	-0.0000	0.0008	0.0001	09:45:55	Yes
2	-0.0012	-0.0012	-0.0000	0.0006	0.0001	09:46:30	Yes
3	-0.0022	-0.0022	-0.0000	0.0006	0.0001	09:47:05	Yes
Mean:	-0.0015	-0.0015	-0.0000				
SD:	0.0006	0.0006	0.0000				
%RSD:	39.33	39.33	39.33				

==========

Sequence No.: 66 **Autosampler Location: 59**
Sample ID: L2046290-02 C **Date Collected: 10/29/2020 09:47:07**
Analyst: **Data Type: Original**

Replicate Data: L2046290-02 C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.0001	-0.0001	-0.0000	0.0008	0.0001	09:48:12	Yes
2	-0.0017	-0.0017	-0.0000	0.0009	0.0001	09:48:47	Yes
3	0.0002	0.0002	0.0000	0.0006	0.0001	09:49:22	Yes
Mean:	-0.0006	-0.0006	-0.0000				
SD:	0.0010	0.0010	0.0000				
%RSD:	188.5	188.5	188.47				

==========

Sequence No.: 67 **Autosampler Location: 60**
Sample ID: L2046473-01 C **Date Collected: 10/29/2020 09:49:24**
Analyst: **Data Type: Original**

Replicate Data: L2046473-01 C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.0010	-0.0010	-0.0000	0.0004	0.0001	09:50:30	Yes
2	-0.0019	-0.0019	-0.0000	0.0004	0.0001	09:51:05	Yes
3	-0.0021	-0.0021	-0.0000	0.0005	0.0001	09:51:40	Yes
Mean:	-0.0017	-0.0017	-0.0000				
SD:	0.0006	0.0006	0.0000				
%RSD:	33.05	33.05	33.05				

==========

Sequence No.: 68 **Autosampler Location: 10**
Sample ID: CCV **Date Collected: 10/29/2020 09:51:41**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.22	10.22	0.1319	0.6951	0.1320	09:52:49	Yes
2	10.10	10.10	0.1303	0.6869	0.1304	09:53:25	Yes
3	10.32	10.32	0.1331	0.6947	0.1333	09:54:00	Yes
Mean:	10.21	10.21	0.1318				
SD:	0.1108	0.1108	0.0014				
%RSD:	1.085	1.085	1.08				

QC value within limits for Hg 253.7 Recovery = 102.11%
All analyte(s) passed QC.

==========

Sequence No.: 69 **Autosampler Location: 11**
Sample ID: CCB **Date Collected: 10/29/2020 09:54:01**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0116	0.0116	0.0001	0.0013	0.0003	09:55:07	Yes
2	0.0119	0.0119	0.0002	0.0014	0.0003	09:55:42	Yes
3	0.0058	0.0058	0.0001	0.0012	0.0002	09:56:17	Yes
Mean:	0.0098	0.0098	0.0001				
SD:	0.0034	0.0034	0.0000				
%RSD:	35.16	35.16	35.16				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

==========

Sequence No.: 70 **Autosampler Location: 61**
Sample ID: L2046475-02 C **Date Collected: 10/29/2020 09:56:19**
Analyst: **Data Type: Original**

Replicate Data: L2046475-02 C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.0024	-0.0024	-0.0000	0.0004	0.0001	09:57:26	Yes
2	0.0011	0.0011	0.0000	0.0009	0.0002	09:58:01	Yes
3	0.0026	0.0026	0.0000	0.0013	0.0002	09:58:37	Yes
Mean:	0.0004	0.0004	0.0000				
SD:	0.0025	0.0025	0.0000				
%RSD:	580.5	580.5	580.50				

==========

Sequence No.: 71 **Autosampler Location: 62**
Sample ID: L2046547-01 C **Date Collected: 10/29/2020 09:58:38**
Analyst: **Data Type: Original**

Replicate Data: L2046547-01 C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0004	0.0004	0.0000	0.0006	0.0002	09:59:43	Yes
2	-0.0028	-0.0028	-0.0000	0.0004	0.0001	10:00:18	Yes
3	0.0008	0.0008	0.0000	0.0009	0.0002	10:00:53	Yes
Mean:	-0.0005	-0.0005	-0.0000				
SD:	0.0020	0.0020	0.0000				
%RSD:	362.4	362.4	362.38				

==========

Sequence No.: 72 **Autosampler Location: 12**
Sample ID: L2046547-02 C **Date Collected: 10/29/2020 10:00:54**
Analyst: **Data Type: Original**

Replicate Data: L2046547-02 C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0005	0.0005	0.0000	0.0010	0.0002	10:02:02	Yes
2	-0.0063	-0.0063	-0.0001	-0.0001	0.0001	10:02:37	Yes
3	-0.0010	-0.0010	-0.0000	0.0004	0.0001	10:03:12	Yes
Mean:	-0.0023	-0.0023	-0.0000				
SD:	0.0035	0.0035	0.0000				
%RSD:	156.2	156.2	156.17				

==========

Sequence No.: 73 **Autosampler Location: 13**
Sample ID: WG1427728-1 S **Date Collected: 10/29/2020 10:03:14**
Analyst: **Data Type: Original**

Replicate Data: WG1427728-1 S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0736	0.0736	0.0009	0.0058	0.0011	10:04:19	Yes
2	0.0687	0.0687	0.0009	0.0053	0.0010	10:04:54	Yes
3	0.0685	0.0685	0.0009	0.0050	0.0010	10:05:29	Yes
Mean:	0.0703	0.0703	0.0009				
SD:	0.0029	0.0029	0.0000				
%RSD:	4.149	4.149	4.15				

==========

Sequence No.: 74 **Autosampler Location: 14**
Sample ID: WG1427728-2 S **Date Collected: 10/29/2020 10:05:30**
Analyst: **Data Type: Original**

Replicate Data: WG1427728-2 S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.135	1.135	0.0146	0.0772	0.0148	10:06:37	Yes
2	1.099	1.099	0.0142	0.0768	0.0143	10:07:12	Yes
3	1.139	1.139	0.0147	0.0771	0.0148	10:07:47	Yes
Mean:	1.124	1.124	0.0145				

SD:	0.0218	0.0218	0.0003
%RSD:	1.943	1.943	1.94

Sequence No.: 75 **Autosampler Location: 15**
Sample ID: L2046625-01 S **Date Collected: 10/29/2020 10:07:48**
Analyst: **Data Type: Original**

Replicate Data: L2046625-01 S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0707	0.0707	0.0009	0.0057	0.0011	10:08:53	Yes
2	0.0717	0.0717	0.0009	0.0058	0.0011	10:09:28	Yes
3	0.0675	0.0675	0.0009	0.0052	0.0010	10:10:03	Yes
Mean:	0.0699	0.0699	0.0009				
SD:	0.0022	0.0022	0.0000				
%RSD:	3.147	3.147	3.15				

Sequence No.: 76 **Autosampler Location: 16**
Sample ID: WG1427728-3 S **Date Collected: 10/29/2020 10:10:05**
Analyst: **Data Type: Original**

Replicate Data: WG1427728-3 S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.095	5.095	0.0657	0.3491	0.0659	10:11:10	Yes
2	5.084	5.084	0.0656	0.3469	0.0658	10:11:45	Yes
3	5.098	5.098	0.0658	0.3488	0.0659	10:12:20	Yes
Mean:	5.092	5.092	0.0657				
SD:	0.0072	0.0072	0.0001				
%RSD:	0.1419	0.1419	0.14				

Sequence No.: 77 **Autosampler Location: 17**
Sample ID: WG1427728-4 S **Date Collected: 10/29/2020 10:12:21**
Analyst: **Data Type: Original**

Replicate Data: WG1427728-4 S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0712	0.0712	0.0009	0.0054	0.0011	10:13:26	Yes
2	0.0766	0.0766	0.0010	0.0066	0.0011	10:14:01	Yes
3	0.0733	0.0733	0.0009	0.0059	0.0011	10:14:36	Yes
Mean:	0.0737	0.0737	0.0010				
SD:	0.0027	0.0027	0.0000				
%RSD:	3.708	3.708	3.71				

Sequence No.: 78 **Autosampler Location: 41**
Sample ID: WG1427773-2 U **Date Collected: 10/29/2020 10:14:38**
Analyst: **Data Type: Original**

Replicate Data: WG1427773-2 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.117	1.117	0.0144	0.0756	0.0146	10:15:44	Yes
2	1.157	1.157	0.0149	0.0798	0.0151	10:16:19	Yes
3	1.144	1.144	0.0148	0.0772	0.0149	10:16:54	Yes
Mean:	1.139	1.139	0.0147				
SD:	0.0203	0.0203	0.0003				
%RSD:	1.777	1.777	1.78				

Sequence No.: 79 **Autosampler Location: 18**
Sample ID: L2046625-02 S **Date Collected: 10/29/2020 10:16:55**
Analyst: **Data Type: Original**

Replicate Data: L2046625-02 S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0676	0.0676	0.0009	0.0056	0.0010	10:18:01	Yes
2	0.0662	0.0662	0.0009	0.0051	0.0010	10:18:36	Yes
3	0.0709	0.0709	0.0009	0.0060	0.0011	10:19:11	Yes

Mean:	0.0682	0.0682	0.0009
SD:	0.0024	0.0024	0.0000
%RSD:	3.497	3.497	3.50

==========

Sequence No.: 80 **Autosampler Location: 10**
Sample ID: CCV **Date Collected: 10/29/2020 10:19:12**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	9.973	9.973	0.1287	0.6728	0.1288	10:20:18	Yes
2	10.16	10.16	0.1311	0.6789	0.1312	10:20:53	Yes
3	10.21	10.21	0.1317	0.6962	0.1319	10:21:28	Yes
Mean:	10.11	10.11	0.1305				
SD:	0.1243	0.1243	0.0016				
%RSD:	1.229	1.229	1.23				

QC value within limits for Hg 253.7 Recovery = 101.13%
All analyte(s) passed QC.

==========

Sequence No.: 81 **Autosampler Location: 11**
Sample ID: CCB **Date Collected: 10/29/2020 10:21:30**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0160	0.0160	0.0002	0.0022	0.0004	10:22:35	Yes
2	0.0118	0.0118	0.0002	0.0019	0.0003	10:23:10	Yes
3	0.0074	0.0074	0.0001	0.0015	0.0002	10:23:45	Yes
Mean:	0.0118	0.0118	0.0002				
SD:	0.0043	0.0043	0.0001				
%RSD:	36.48	36.48	36.48				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 82 **Autosampler Location: 19**
Sample ID: L2046625-03 S **Date Collected: 10/29/2020 10:23:46**
Analyst: **Data Type: Original**

Replicate Data: L2046625-03 S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0836	0.0836	0.0011	0.0066	0.0012	10:24:52	Yes
2	0.0804	0.0804	0.0010	0.0055	0.0012	10:25:27	Yes
3	0.0889	0.0889	0.0011	0.0070	0.0013	10:26:01	Yes
Mean:	0.0843	0.0843	0.0011				
SD:	0.0043	0.0043	0.0001				
%RSD:	5.116	5.116	5.12				

==========

Sequence No.: 83 **Autosampler Location: 20**
Sample ID: L2046790-01 S **Date Collected: 10/29/2020 10:26:03**
Analyst: **Data Type: Original**

Replicate Data: L2046790-01 S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0764	0.0764	0.0010	0.0063	0.0011	10:27:09	Yes
2	0.0727	0.0727	0.0009	0.0058	0.0011	10:27:44	Yes
3	0.0776	0.0776	0.0010	0.0061	0.0011	10:28:19	Yes
Mean:	0.0755	0.0755	0.0010				
SD:	0.0026	0.0026	0.0000				
%RSD:	3.397	3.397	3.40				

==========

Sequence No.: 84 **Autosampler Location: 21**
Sample ID: L2046790-02 S **Date Collected: 10/29/2020 10:28:20**
Analyst: **Data Type: Original**

Replicate Data: L2046790-02 S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0749	0.0749	0.0010	0.0062	0.0011	10:29:27	Yes
2	0.0678	0.0678	0.0009	0.0054	0.0010	10:30:02	Yes
3	0.0710	0.0710	0.0009	0.0057	0.0011	10:30:37	Yes
Mean:	0.0712	0.0712	0.0009				
SD:	0.0035	0.0035	0.0000				
%RSD:	4.959	4.959	4.96				

==========

Sequence No.: 85 **Autosampler Location: 22**
Sample ID: L2046790-03 S **Date Collected: 10/29/2020 10:30:38**
Analyst: **Data Type: Original**

Replicate Data: L2046790-03 S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0692	0.0692	0.0009	0.0058	0.0010	10:31:43	Yes
2	0.0719	0.0719	0.0009	0.0056	0.0011	10:32:18	Yes
3	0.0610	0.0610	0.0008	0.0044	0.0009	10:32:53	Yes
Mean:	0.0674	0.0674	0.0009				
SD:	0.0057	0.0057	0.0001				
%RSD:	8.449	8.449	8.45				

User canceled analysis.

==========

Analysis Begun

Logged In Analyst: metals-instrument **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: S10**

Sample Information File: C:\data-AA\Alpha\Sample Information\102920A.sif
Batch ID: EW
Results Data Set: HG102920A
Results Library: C:\data-AA\Alpha\Results\Results.mdb

==========

Sequence No.: 86 **Autosampler Location: 23**
Sample ID: L2046790-04 S **Date Collected: 10/29/2020 10:51:14**
Analyst: **Data Type: Original**

Replicate Data: L2046790-04 S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0685	0.0685	0.0009	0.0050	0.0010	10:52:20	Yes
2	0.0674	0.0674	0.0009	0.0048	0.0010	10:52:56	Yes
3	0.0737	0.0737	0.0010	0.0059	0.0011	10:53:31	Yes
Mean:	0.0699	0.0699	0.0009				
SD:	0.0033	0.0033	0.0000				
%RSD:	4.790	4.790	4.79				

==========

Sequence No.: 87 **Autosampler Location: 24**
Sample ID: WG1427056-1 C **Date Collected: 10/29/2020 10:53:32**
Analyst: **Data Type: Original**

Replicate Data: WG1427056-1 C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0264	0.0264	0.0003	0.0024	0.0005	10:54:37	Yes
2	0.0286	0.0286	0.0004	0.0026	0.0005	10:55:12	Yes
3	0.0238	0.0238	0.0003	0.0020	0.0005	10:55:47	Yes
Mean:	0.0263	0.0263	0.0003				
SD:	0.0024	0.0024	0.0000				
%RSD:	9.032	9.032	9.03				

==========

Sequence No.: 88 **Autosampler Location: 25**
Sample ID: WG1427056-2 C **Date Collected: 10/29/2020 10:55:49**
Analyst: **Data Type: Original**

Replicate Data: WG1427056-2 C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.065	1.065	0.0137	0.0721	0.0139	10:56:54	Yes

2	1.046	1.046	0.0135	0.0709	0.0136	10:57:29	Yes
3	1.043	1.043	0.0135	0.0706	0.0136	10:58:05	Yes
Mean:	1.051	1.051	0.0136				
SD:	0.0120	0.0120	0.0002				
%RSD:	1.137	1.137	1.14				

==========

Sequence No.: 89 **Autosampler Location: 26**
Sample ID: L2046147-01 C **Date Collected: 10/29/2020 10:58:06**
Analyst: **Data Type: Original**

Replicate Data: L2046147-01 C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0059	0.0059	0.0001	0.0014	0.0002	10:59:11	Yes
2	0.0014	0.0014	0.0000	0.0011	0.0002	10:59:46	Yes
3	0.0062	0.0062	0.0001	0.0012	0.0002	11:00:21	Yes
Mean:	0.0045	0.0045	0.0001				
SD:	0.0027	0.0027	0.0000				
%RSD:	60.27	60.27	60.27				

==========

Sequence No.: 90 **Autosampler Location: 27**
Sample ID: WG1427056-3 C **Date Collected: 10/29/2020 11:00:22**
Analyst: **Data Type: Original**

Replicate Data: WG1427056-3 C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.853	4.853	0.0626	0.3304	0.0628	11:01:28	Yes
2	4.986	4.986	0.0643	0.3365	0.0645	11:02:03	Yes
3	4.958	4.958	0.0640	0.3346	0.0641	11:02:38	Yes
Mean:	4.932	4.932	0.0636				
SD:	0.0699	0.0699	0.0009				
%RSD:	1.416	1.416	1.42				

==========

Sequence No.: 91 **Autosampler Location: 28**
Sample ID: WG1427056-4 C **Date Collected: 10/29/2020 11:02:39**
Analyst: **Data Type: Original**

Replicate Data: WG1427056-4 C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0053	0.0053	0.0001	0.0009	0.0002	11:03:46	Yes
2	0.0052	0.0052	0.0001	0.0012	0.0002	11:04:21	Yes
3	0.0057	0.0057	0.0001	0.0009	0.0002	11:04:56	Yes
Mean:	0.0054	0.0054	0.0001				
SD:	0.0002	0.0002	0.0000				
%RSD:	4.172	4.172	4.17				

==========

Sequence No.: 92 **Autosampler Location: 10**
Sample ID: CCV **Date Collected: 10/29/2020 11:04:58**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.29	10.29	0.1328	0.7004	0.1329	11:06:03	Yes
2	9.880	9.880	0.1275	0.6731	0.1276	11:06:38	Yes
3	10.14	10.14	0.1308	0.6850	0.1310	11:07:13	Yes
Mean:	10.10	10.10	0.1304				
SD:	0.2076	0.2076	0.0027				
%RSD:	2.055	2.055	2.06				

QC value within limits for Hg 253.7 Recovery = 101.03%
All analyte(s) passed QC.

==========

Sequence No.: 93 **Autosampler Location: 11**
Sample ID: CCB **Date Collected: 10/29/2020 11:07:15**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0157	0.0157	0.0002	0.0024	0.0003	11:08:20	Yes
2	0.0111	0.0111	0.0001	0.0012	0.0003	11:08:55	Yes
3	0.0176	0.0176	0.0002	0.0019	0.0004	11:09:30	Yes
Mean:	0.0148	0.0148	0.0002				
SD:	0.0033	0.0033	0.0000				
%RSD:	22.44	22.44	22.44				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 94 **Autosampler Location: 29**
Sample ID: L2046147-02 C **Date Collected: 10/29/2020 11:09:31**
Analyst: **Data Type: Original**

Replicate Data: L2046147-02 C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.0015	-0.0015	-0.0000	0.0005	0.0001	11:10:37	Yes
2	0.0055	0.0055	0.0001	0.0009	0.0002	11:11:12	Yes
3	0.0055	0.0055	0.0001	0.0012	0.0002	11:11:47	Yes
Mean:	0.0032	0.0032	0.0000				
SD:	0.0040	0.0040	0.0001				
%RSD:	127.3	127.3	127.32				

==========

Sequence No.: 95 **Autosampler Location: 30**
Sample ID: WG1427632-1 T **Date Collected: 10/29/2020 11:11:48**
Analyst: **Data Type: Original**

Replicate Data: WG1427632-1 T

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.0011	-0.0011	-0.0000	0.0005	0.0001	11:12:53	Yes
2	0.0003	0.0003	0.0000	0.0005	0.0002	11:13:28	Yes
3	-0.0045	-0.0045	-0.0001	0.0001	0.0001	11:14:03	Yes
Mean:	-0.0018	-0.0018	-0.0000				
SD:	0.0025	0.0025	0.0000				
%RSD:	139.3	139.3	139.28				

==========

Sequence No.: 96 **Autosampler Location: 31**
Sample ID: WG1427632-2 T **Date Collected: 10/29/2020 11:14:04**
Analyst: **Data Type: Original**

Replicate Data: WG1427632-2 T

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.066	1.066	0.0138	0.0725	0.0139	11:15:10	Yes
2	1.069	1.069	0.0138	0.0734	0.0139	11:15:45	Yes
3	1.079	1.079	0.0139	0.0728	0.0141	11:16:20	Yes
Mean:	1.072	1.072	0.0138				
SD:	0.0069	0.0069	0.0001				
%RSD:	0.6432	0.6432	0.64				

==========

Sequence No.: 97 **Autosampler Location: 32**
Sample ID: L2046625-01 T **Date Collected: 10/29/2020 11:16:21**
Analyst: **Data Type: Original**

Replicate Data: L2046625-01 T

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0318	0.0318	0.0004	0.0031	0.0006	11:17:26	Yes
2	0.0317	0.0317	0.0004	0.0028	0.0006	11:18:01	Yes
3	0.0287	0.0287	0.0004	0.0028	0.0005	11:18:36	Yes
Mean:	0.0307	0.0307	0.0004				
SD:	0.0018	0.0018	0.0000				
%RSD:	5.734	5.734	5.73				

==========

Sequence No.: 98 **Autosampler Location: 33**
Sample ID: WG1427632-3 T **Date Collected: 10/29/2020 11:18:38**
Analyst: **Data Type: Original**

Replicate Data: WG1427632-3 T

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.184	5.184	0.0669	0.3571	0.0670	11:19:43	Yes
2	5.175	5.175	0.0668	0.3532	0.0669	11:20:18	Yes
3	5.204	5.204	0.0672	0.3558	0.0673	11:20:53	Yes
Mean:	5.188	5.188	0.0669				
SD:	0.0150	0.0150	0.0002				
%RSD:	0.2895	0.2895	0.29				

==========

Sequence No.: 99 **Autosampler Location: 34**
Sample ID: WG1427632-4 T **Date Collected: 10/29/2020 11:20:55**
Analyst: **Data Type: Original**

Replicate Data: WG1427632-4 T

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0373	0.0373	0.0005	0.0032	0.0006	11:22:00	Yes
2	0.0364	0.0364	0.0005	0.0022	0.0006	11:22:36	Yes
3	0.0435	0.0435	0.0006	0.0035	0.0007	11:23:11	Yes
Mean:	0.0391	0.0391	0.0005				
SD:	0.0039	0.0039	0.0000				
%RSD:	9.909	9.909	9.91				

==========

Sequence No.: 100 **Autosampler Location: 35**
Sample ID: L2046625-02 T **Date Collected: 10/29/2020 11:23:12**
Analyst: **Data Type: Original**

Replicate Data: L2046625-02 T

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0098	0.0098	0.0001	0.0012	0.0003	11:24:19	Yes
2	0.0111	0.0111	0.0001	0.0012	0.0003	11:24:54	Yes
3	0.0148	0.0148	0.0002	0.0020	0.0003	11:25:29	Yes
Mean:	0.0119	0.0119	0.0002				
SD:	0.0026	0.0026	0.0000				
%RSD:	21.50	21.50	21.50				

==========

Sequence No.: 101 **Autosampler Location: 36**
Sample ID: L2046625-03 T **Date Collected: 10/29/2020 11:25:30**
Analyst: **Data Type: Original**

Replicate Data: L2046625-03 T

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0011	0.0011	0.0000	0.0009	0.0002	11:26:36	Yes
2	0.0029	0.0029	0.0000	0.0010	0.0002	11:27:11	Yes
3	0.0024	0.0024	0.0000	0.0010	0.0002	11:27:46	Yes
Mean:	0.0021	0.0021	0.0000				
SD:	0.0009	0.0009	0.0000				
%RSD:	42.68	42.68	42.68				

==========

Sequence No.: 102 **Autosampler Location: 37**
Sample ID: L2046790-01 T **Date Collected: 10/29/2020 11:27:47**
Analyst: **Data Type: Original**

Replicate Data: L2046790-01 T

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0429	0.0429	0.0006	0.0051	0.0007	11:28:53	Yes
2	0.0352	0.0352	0.0005	0.0034	0.0006	11:29:28	Yes
3	0.0369	0.0369	0.0005	0.0036	0.0006	11:30:03	Yes
Mean:	0.0383	0.0383	0.0005				
SD:	0.0041	0.0041	0.0001				
%RSD:	10.60	10.60	10.60				

==========

Sequence No.: 103 **Autosampler Location: 38**
Sample ID: L2046790-02 T **Date Collected: 10/29/2020 11:30:04**

Analyst: **Data Type: Original**

Replicate Data: L2046790-02 T

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.0001	-0.0001	-0.0000	0.0005	0.0001	11:31:09	Yes
2	0.0010	0.0010	0.0000	0.0006	0.0002	11:31:44	Yes
3	-0.0058	-0.0058	-0.0001	0.0001	0.0001	11:32:19	Yes
Mean:	-0.0016	-0.0016	-0.0000				
SD:	0.0036	0.0036	0.0000				
%RSD:	221.2	221.2	221.16				

==========

Sequence No.: 104 **Autosampler Location: 10**
Sample ID: CCV **Date Collected: 10/29/2020 11:32:21**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.07	10.07	0.1299	0.6801	0.1300	11:33:27	Yes
2	10.45	10.45	0.1348	0.7064	0.1349	11:34:02	Yes
3	10.20	10.20	0.1316	0.6945	0.1317	11:34:37	Yes
Mean:	10.24	10.24	0.1321				
SD:	0.1926	0.1926	0.0025				
%RSD:	1.882	1.882	1.88				

QC value within limits for Hg 253.7 Recovery = 102.37%
All analyte(s) passed QC.

==========

Sequence No.: 105 **Autosampler Location: 11**
Sample ID: CCB **Date Collected: 10/29/2020 11:34:39**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0297	0.0297	0.0004	0.0030	0.0005	11:35:44	Yes
2	0.0231	0.0231	0.0003	0.0025	0.0004	11:36:19	Yes
3	0.0206	0.0206	0.0003	0.0022	0.0004	11:36:54	Yes
Mean:	0.0245	0.0245	0.0003				
SD:	0.0047	0.0047	0.0001				
%RSD:	19.16	19.16	19.16				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 106 **Autosampler Location: 39**
Sample ID: L2046790-03 T **Date Collected: 10/29/2020 11:36:55**
Analyst: **Data Type: Original**

Replicate Data: L2046790-03 T

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0035	0.0035	0.0000	0.0010	0.0002	11:38:01	Yes
2	0.0035	0.0035	0.0000	0.0009	0.0002	11:38:36	Yes
3	0.0056	0.0056	0.0001	0.0013	0.0002	11:39:11	Yes
Mean:	0.0042	0.0042	0.0001				
SD:	0.0012	0.0012	0.0000				
%RSD:	29.56	29.56	29.56				

==========

Sequence No.: 107 **Autosampler Location: 40**
Sample ID: L2046790-04 T **Date Collected: 10/29/2020 11:39:13**
Analyst: **Data Type: Original**

Replicate Data: L2046790-04 T

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0255	0.0255	0.0003	0.0025	0.0005	11:40:18	Yes
2	0.0250	0.0250	0.0003	0.0029	0.0005	11:40:53	Yes
3	0.0243	0.0243	0.0003	0.0024	0.0005	11:41:28	Yes
Mean:	0.0249	0.0249	0.0003				
SD:	0.0006	0.0006	0.0000				

%RSD: 2.466 2.466 2.47

==========

Sequence No.: 108 **Autosampler Location: 41**
Sample ID: WG1426713-1 S **Date Collected: 10/29/2020 11:41:30**
Analyst: **Data Type: Original**

Replicate Data: WG1426713-1 S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.0011	-0.0011	-0.0000	0.0007	0.0001	11:42:35	Yes
2	0.0080	0.0080	0.0001	0.0017	0.0003	11:43:10	Yes
3	0.0003	0.0003	0.0000	0.0009	0.0002	11:43:45	Yes
Mean:	0.0024	0.0024	0.0000				
SD:	0.0049	0.0049	0.0001				
%RSD:	204.0	204.0	204.03				

==========

Sequence No.: 109 **Autosampler Location: 42**
Sample ID: WG1426713-2 S **Date Collected: 10/29/2020 11:43:47**
Analyst: **Data Type: Original**

Replicate Data: WG1426713-2 S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.095	1.095	0.0141	0.0753	0.0143	11:44:54	Yes
2	1.112	1.112	0.0143	0.0756	0.0145	11:45:29	Yes
3	1.079	1.079	0.0139	0.0730	0.0141	11:46:04	Yes
Mean:	1.095	1.095	0.0141				
SD:	0.0165	0.0165	0.0002				
%RSD:	1.503	1.503	1.50				

==========

Sequence No.: 110 **Autosampler Location: 43**
Sample ID: L2046112-06 S **Date Collected: 10/29/2020 11:46:05**
Analyst: **Data Type: Original**

Replicate Data: L2046112-06 S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0101	0.0101	0.0001	0.0018	0.0003	11:47:10	Yes
2	0.0061	0.0061	0.0001	0.0015	0.0002	11:47:45	Yes
3	-0.0002	-0.0002	-0.0000	0.0003	0.0001	11:48:20	Yes
Mean:	0.0054	0.0054	0.0001				
SD:	0.0052	0.0052	0.0001				
%RSD:	97.26	97.26	97.26				

==========

Sequence No.: 111 **Autosampler Location: 44**
Sample ID: WG1426713-3 S **Date Collected: 10/29/2020 11:48:22**
Analyst: **Data Type: Original**

Replicate Data: WG1426713-3 S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.302	5.302	0.0684	0.3631	0.0686	11:49:27	Yes
2	5.377	5.377	0.0694	0.3640	0.0695	11:50:02	Yes
3	5.360	5.360	0.0692	0.3587	0.0693	11:50:37	Yes
Mean:	5.346	5.346	0.0690				
SD:	0.0392	0.0392	0.0005				
%RSD:	0.7338	0.7338	0.73				

==========

Sequence No.: 112 **Autosampler Location: 45**
Sample ID: WG1426713-4 S **Date Collected: 10/29/2020 11:50:38**
Analyst: **Data Type: Original**

Replicate Data: WG1426713-4 S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0033	0.0033	0.0000	0.0009	0.0002	11:51:43	Yes
2	0.0062	0.0062	0.0001	0.0013	0.0002	11:52:18	Yes
3	0.0076	0.0076	0.0001	0.0012	0.0002	11:52:53	Yes
Mean:	0.0057	0.0057	0.0001				

SD:	0.0022	0.0022	0.0000
%RSD:	37.98	37.98	37.98

==========

Sequence No.: 113 **Autosampler Location: 46**
Sample ID: L2046112-07 S **Date Collected: 10/29/2020 11:52:54**
Analyst: **Data Type: Original**

Replicate Data: L2046112-07 S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0008	0.0008	0.0000	0.0009	0.0002	11:53:59	Yes
2	-0.0040	-0.0040	-0.0001	0.0001	0.0001	11:54:34	Yes
3	0.0001	0.0001	0.0000	0.0007	0.0001	11:55:09	Yes
Mean:	-0.0010	-0.0010	-0.0000				
SD:	0.0026	0.0026	0.0000				
%RSD:	255.5	255.5	255.51				

==========

Sequence No.: 114 **Autosampler Location: 47**
Sample ID: L2046112-08 S **Date Collected: 10/29/2020 11:55:10**
Analyst: **Data Type: Original**

Replicate Data: L2046112-08 S

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0037	0.0037	0.0000	0.0008	0.0002	11:56:15	Yes
2	0.0008	0.0008	0.0000	0.0006	0.0002	11:56:51	Yes
3	-0.0012	-0.0012	-0.0000	0.0008	0.0001	11:57:26	Yes
Mean:	0.0011	0.0011	0.0000				
SD:	0.0024	0.0024	0.0000				
%RSD:	218.5	218.5	218.51				

==========

Sequence No.: 115 **Autosampler Location: 48**
Sample ID: WG1427560-1 P **Date Collected: 10/29/2020 11:57:27**
Analyst: **Data Type: Original**

Replicate Data: WG1427560-1 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.0003	-0.0003	-0.0000	0.0006	0.0001	11:58:33	Yes
2	-0.0049	-0.0049	-0.0001	0.0002	0.0001	11:59:08	Yes
3	0.0010	0.0010	0.0000	0.0008	0.0002	11:59:43	Yes
Mean:	-0.0014	-0.0014	-0.0000				
SD:	0.0031	0.0031	0.0000				
%RSD:	219.7	219.7	219.65				

==========

Sequence No.: 116 **Autosampler Location: 10**
Sample ID: CCV **Date Collected: 10/29/2020 11:59:44**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.42	10.42	0.1345	0.7000	0.1346	12:00:51	Yes
2	10.26	10.26	0.1324	0.6920	0.1325	12:01:26	Yes
3	10.55	10.55	0.1361	0.7018	0.1363	12:02:01	Yes
Mean:	10.41	10.41	0.1343				
SD:	0.1455	0.1455	0.0019				
%RSD:	1.397	1.397	1.40				

QC value within limits for Hg 253.7 Recovery = 104.10%
All analyte(s) passed QC.

==========

Sequence No.: 117 **Autosampler Location: 11**
Sample ID: CCB **Date Collected: 10/29/2020 12:02:02**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0193	0.0193	0.0002	0.0019	0.0004	12:03:08	Yes

2	0.0191	0.0191	0.0002	0.0018	0.0004	12:03:43	Yes
3	0.0192	0.0192	0.0002	0.0022	0.0004	12:04:18	Yes
Mean:	0.0192	0.0192	0.0002				
SD:	0.0001	0.0001	0.0000				
%RSD:	0.6025	0.6025	0.60				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 118 **Autosampler Location: 49**
Sample ID: WG1427560-2 P **Date Collected: 10/29/2020 12:04:19**
Analyst: **Data Type: Original**

Replicate Data: WG1427560-2 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.064	1.064	0.0137	0.0731	0.0139	12:05:26	Yes
2	1.118	1.118	0.0144	0.0750	0.0146	12:06:01	Yes
3	1.120	1.120	0.0145	0.0759	0.0146	12:06:36	Yes
Mean:	1.101	1.101	0.0142				
SD:	0.0318	0.0318	0.0004				
%RSD:	2.888	2.888	2.89				

==========

Sequence No.: 119 **Autosampler Location: 50**
Sample ID: L2046376-01 P **Date Collected: 10/29/2020 12:06:37**
Analyst: **Data Type: Original**

Replicate Data: L2046376-01 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0471	0.0471	0.0006	0.0044	0.0008	12:07:42	Yes
2	0.0378	0.0378	0.0005	0.0033	0.0006	12:08:17	Yes
3	0.0367	0.0367	0.0005	0.0032	0.0006	12:08:52	Yes
Mean:	0.0405	0.0405	0.0005				
SD:	0.0057	0.0057	0.0001				
%RSD:	14.16	14.16	14.16				

==========

Sequence No.: 120 **Autosampler Location: 51**
Sample ID: WG1427560-3 P **Date Collected: 10/29/2020 12:08:54**
Analyst: **Data Type: Original**

Replicate Data: WG1427560-3 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.467	5.467	0.0705	0.3702	0.0707	12:09:59	Yes
2	5.260	5.260	0.0679	0.3541	0.0680	12:10:34	Yes
3	5.158	5.158	0.0666	0.3529	0.0667	12:11:09	Yes
Mean:	5.295	5.295	0.0683				
SD:	0.1575	0.1575	0.0020				
%RSD:	2.975	2.975	2.97				

==========

Sequence No.: 121 **Autosampler Location: 52**
Sample ID: WG1427560-4 P **Date Collected: 10/29/2020 12:11:10**
Analyst: **Data Type: Original**

Replicate Data: WG1427560-4 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0393	0.0393	0.0005	0.0032	0.0007	12:12:14	Yes
2	0.0406	0.0406	0.0005	0.0035	0.0007	12:12:49	Yes
3	0.0419	0.0419	0.0005	0.0036	0.0007	12:13:24	Yes
Mean:	0.0406	0.0406	0.0005				
SD:	0.0013	0.0013	0.0000				
%RSD:	3.160	3.160	3.16				

==========

Sequence No.: 122 **Autosampler Location: 53**
Sample ID: L2046376-02 P **Date Collected: 10/29/2020 12:13:26**
Analyst: **Data Type: Original**

Replicate Data: L2046376-02 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0292	0.0292	0.0004	0.0028	0.0005	12:14:31	Yes
2	0.0327	0.0327	0.0004	0.0029	0.0006	12:15:06	Yes
3	0.0256	0.0256	0.0003	0.0024	0.0005	12:15:41	Yes
Mean:	0.0291	0.0291	0.0004				
SD:	0.0035	0.0035	0.0000				
%RSD:	12.18	12.18	12.18				

==========

Sequence No.: 123 **Autosampler Location: 54**
Sample ID: L2046376-03 P **Date Collected: 10/29/2020 12:15:42**
Analyst: **Data Type: Original**

Replicate Data: L2046376-03 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.1779	0.1779	0.0023	0.0195	0.0024	12:16:48	Yes
2	0.0736	0.0736	0.0009	0.0056	0.0011	12:17:23	Yes
3	0.0745	0.0745	0.0010	0.0054	0.0011	12:17:58	Yes
Mean:	0.1087	0.1087	0.0014				
SD:	0.0600	0.0600	0.0008				
%RSD:	55.18	55.18	55.18				

==========

Sequence No.: 124 **Autosampler Location: 55**
Sample ID: WG1427931-1 P **Date Collected: 10/29/2020 12:18:00**
Analyst: **Data Type: Original**

Replicate Data: WG1427931-1 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0049	0.0049	0.0001	0.0009	0.0002	12:19:06	Yes
2	0.0058	0.0058	0.0001	0.0014	0.0002	12:19:41	Yes
3	-0.0007	-0.0007	-0.0000	0.0005	0.0001	12:20:16	Yes
Mean:	0.0033	0.0033	0.0000				
SD:	0.0035	0.0035	0.0000				
%RSD:	105.1	105.1	105.07				

==========

Sequence No.: 125 **Autosampler Location: 56**
Sample ID: WG1427931-2 P **Date Collected: 10/29/2020 12:20:17**
Analyst: **Data Type: Original**

Replicate Data: WG1427931-2 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.133	1.133	0.0146	0.0751	0.0148	12:21:24	Yes
2	1.071	1.071	0.0138	0.0703	0.0140	12:21:59	Yes
3	1.082	1.082	0.0140	0.0726	0.0141	12:22:34	Yes
Mean:	1.095	1.095	0.0141				
SD:	0.0329	0.0329	0.0004				
%RSD:	3.007	3.007	3.01				

==========

Sequence No.: 126 **Autosampler Location: 57**
Sample ID: L2046745-01 P **Date Collected: 10/29/2020 12:22:35**
Analyst: **Data Type: Original**

Replicate Data: L2046745-01 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0463	0.0463	0.0006	0.0038	0.0007	12:23:41	Yes
2	0.0431	0.0431	0.0006	0.0036	0.0007	12:24:15	Yes
3	0.0422	0.0422	0.0005	0.0038	0.0007	12:24:50	Yes
Mean:	0.0439	0.0439	0.0006				
SD:	0.0021	0.0021	0.0000				
%RSD:	4.888	4.888	4.89				

==========

Sequence No.: 127 **Autosampler Location: 58**
Sample ID: L2046745-02 P **Date Collected: 10/29/2020 12:24:52**
Analyst: **Data Type: Original**

Replicate Data: L2046745-02 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0442	0.0442	0.0006	0.0034	0.0007	12:25:57	Yes
2	0.0445	0.0445	0.0006	0.0038	0.0007	12:26:32	Yes
3	0.0430	0.0430	0.0006	0.0039	0.0007	12:27:07	Yes
Mean:	0.0439	0.0439	0.0006				
SD:	0.0008	0.0008	0.0000				
%RSD:	1.763	1.763	1.76				

==========

Sequence No.: 128 **Autosampler Location: 10**
Sample ID: CCV **Date Collected: 10/29/2020 12:27:08**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.34	10.34	0.1335	0.6886	0.1336	12:28:15	Yes
2	10.21	10.21	0.1318	0.6920	0.1319	12:28:50	Yes
3	10.11	10.11	0.1305	0.6777	0.1306	12:29:25	Yes
Mean:	10.22	10.22	0.1319				
SD:	0.1165	0.1165	0.0015				
%RSD:	1.140	1.140	1.14				

QC value within limits for Hg 253.7 Recovery = 102.22%
All analyte(s) passed QC.

==========

Sequence No.: 129 **Autosampler Location: 11**
Sample ID: CCB **Date Collected: 10/29/2020 12:29:27**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.030	1.030	0.0133	0.0444	0.0134	12:30:32	Yes
2	0.0346	0.0346	0.0004	0.0021	0.0006	12:31:07	Yes
3	0.0200	0.0200	0.0003	0.0009	0.0004	12:31:42	Yes
Mean:	0.3614	0.3614	0.0047				
SD:	0.5788	0.5788	0.0075				
%RSD:	160.1	160.1	160.14				

QC value greater than the upper limit for Hg 253.7 Recovery = Not calculated
QC Failed. Stop the analysis.

==========

Analysis Begun

Logged In Analyst: metals-instrument **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: S10**

Sample Information File: C:\data-AA\Alpha\Sample Information\102920A.sif
Batch ID: EW
Results Data Set: HG102920A
Results Library: C:\data-AA\Alpha\Results\Results.mdb

==========

Sequence No.: 129 **Autosampler Location: 11**
Sample ID: CCB **Date Collected: 10/29/2020 12:31:58**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0068	0.0068	0.0001	0.0016	0.0002	12:33:04	Yes
2	0.0034	0.0034	0.0000	0.0010	0.0002	12:33:39	Yes
3	0.0101	0.0101	0.0001	0.0020	0.0003	12:34:14	Yes
Mean:	0.0068	0.0068	0.0001				
SD:	0.0034	0.0034	0.0000				
%RSD:	50.02	50.02	50.02				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 130 **Autosampler Location: 1**
Sample ID: PS 5583-01 U **Date Collected: 10/29/2020 12:34:16**
Analyst: **Data Type: Original**

Replicate Data: PS 5583-01 U

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.87	10.87	0.1403	0.7394	0.1404	12:35:21	Yes
2	10.88	10.88	0.1404	0.7366	0.1405	12:35:56	Yes
3	10.88	10.88	0.1404	0.7376	0.1405	12:36:31	Yes
Mean:	10.88	10.88	0.1403				
SD:	0.0058	0.0058	0.0001				
%RSD:	0.0529	0.0529	0.05				

==========

Sequence No.: 131 **Autosampler Location: 59**
Sample ID: L2046745-03 P **Date Collected: 10/29/2020 12:36:33**
Analyst: **Data Type: Original**

Replicate Data: L2046745-03 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0066	0.0066	0.0001	0.0010	0.0002	12:37:40	Yes
2	0.0089	0.0089	0.0001	0.0014	0.0003	12:38:15	Yes
3	0.0071	0.0071	0.0001	0.0012	0.0002	12:38:50	Yes
Mean:	0.0076	0.0076	0.0001				
SD:	0.0012	0.0012	0.0000				
%RSD:	16.18	16.18	16.18				

==========

Sequence No.: 132 **Autosampler Location: 60**
Sample ID: L2046745-04 P **Date Collected: 10/29/2020 12:38:51**
Analyst: **Data Type: Original**

Replicate Data: L2046745-04 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0254	0.0254	0.0003	0.0020	0.0005	12:39:57	Yes
2	0.0250	0.0250	0.0003	0.0022	0.0005	12:40:32	Yes
3	0.0279	0.0279	0.0004	0.0026	0.0005	12:41:07	Yes
Mean:	0.0261	0.0261	0.0003				
SD:	0.0015	0.0015	0.0000				
%RSD:	5.923	5.923	5.92				

==========

Sequence No.: 133 **Autosampler Location: 61**
Sample ID: L2046745-05 P **Date Collected: 10/29/2020 12:41:08**
Analyst: **Data Type: Original**

Replicate Data: L2046745-05 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0425	0.0425	0.0005	0.0038	0.0007	12:42:13	Yes
2	0.0360	0.0360	0.0005	0.0033	0.0006	12:42:49	Yes
3	0.0355	0.0355	0.0005	0.0029	0.0006	12:43:24	Yes
Mean:	0.0380	0.0380	0.0005				
SD:	0.0039	0.0039	0.0000				
%RSD:	10.17	10.17	10.17				

==========

Sequence No.: 134 **Autosampler Location: 62**
Sample ID: L2046745-06 P **Date Collected: 10/29/2020 12:43:25**
Analyst: **Data Type: Original**

Replicate Data: L2046745-06 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0057	0.0057	0.0001	0.0010	0.0002	12:44:30	Yes
2	0.0069	0.0069	0.0001	0.0013	0.0002	12:45:05	Yes
3	0.0047	0.0047	0.0001	0.0009	0.0002	12:45:40	Yes
Mean:	0.0058	0.0058	0.0001				
SD:	0.0011	0.0011	0.0000				
%RSD:	19.31	19.31	19.31				

==========

Sequence No.: 135 **Autosampler Location: 12**
Sample ID: L2046745-07 P **Date Collected: 10/29/2020 12:45:42**

Analyst: **Data Type: Original**

Replicate Data: L2046745-07 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0628	0.0628	0.0008	0.0050	0.0010	12:46:49	Yes
2	0.0614	0.0614	0.0008	0.0045	0.0009	12:47:24	Yes
3	0.0670	0.0670	0.0009	0.0054	0.0010	12:47:59	Yes
Mean:	0.0638	0.0638	0.0008				
SD:	0.0029	0.0029	0.0000				
%RSD:	4.597	4.597	4.60				

==========

Sequence No.: 136 **Autosampler Location: 13**
Sample ID: L2046745-08 P **Date Collected: 10/29/2020 12:48:00**
Analyst: **Data Type: Original**

Replicate Data: L2046745-08 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0030	0.0030	0.0000	0.0009	0.0002	12:49:05	Yes
2	0.0073	0.0073	0.0001	0.0015	0.0002	12:49:40	Yes
3	0.0026	0.0026	0.0000	0.0006	0.0002	12:50:15	Yes
Mean:	0.0043	0.0043	0.0001				
SD:	0.0026	0.0026	0.0000				
%RSD:	59.92	59.92	59.92				

==========

Sequence No.: 137 **Autosampler Location: 14**
Sample ID: L2046745-09 P **Date Collected: 10/29/2020 12:50:17**
Analyst: **Data Type: Original**

Replicate Data: L2046745-09 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0119	0.0119	0.0002	0.0013	0.0003	12:51:23	Yes
2	0.0078	0.0078	0.0001	0.0014	0.0002	12:51:58	Yes
3	0.0097	0.0097	0.0001	0.0012	0.0003	12:52:33	Yes
Mean:	0.0098	0.0098	0.0001				
SD:	0.0021	0.0021	0.0000				
%RSD:	21.04	21.04	21.04				

==========

Sequence No.: 138 **Autosampler Location: 15**
Sample ID: L2046745-10 P **Date Collected: 10/29/2020 12:52:35**
Analyst: **Data Type: Original**

Replicate Data: L2046745-10 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0010	0.0010	0.0000	0.0005	0.0002	12:53:40	Yes
2	0.0066	0.0066	0.0001	0.0016	0.0002	12:54:15	Yes
3	0.0017	0.0017	0.0000	0.0008	0.0002	12:54:50	Yes
Mean:	0.0031	0.0031	0.0000				
SD:	0.0031	0.0031	0.0000				
%RSD:	99.44	99.44	99.44				

==========

Sequence No.: 139 **Autosampler Location: 16**
Sample ID: L2046745-11 P **Date Collected: 10/29/2020 12:54:51**
Analyst: **Data Type: Original**

Replicate Data: L2046745-11 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0669	0.0669	0.0009	0.0054	0.0010	12:55:56	Yes
2	0.0701	0.0701	0.0009	0.0054	0.0011	12:56:31	Yes
3	0.0692	0.0692	0.0009	0.0054	0.0010	12:57:06	Yes
Mean:	0.0687	0.0687	0.0009				
SD:	0.0016	0.0016	0.0000				
%RSD:	2.385	2.385	2.38				

==========

Sequence No.: 140 **Autosampler Location: 10**

Sample ID: CCV **Date Collected: 10/29/2020 12:57:07**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.22	10.22	0.1319	0.6896	0.1321	12:58:13	Yes
2	10.30	10.30	0.1329	0.6967	0.1330	12:58:48	Yes
3	10.53	10.53	0.1359	0.6987	0.1361	12:59:23	Yes
Mean:	10.35	10.35	0.1336				
SD:	0.1617	0.1617	0.0021				
%RSD:	1.562	1.562	1.56				

QC value within limits for Hg 253.7 Recovery = 103.52%
All analyte(s) passed QC.

==========

Sequence No.: 141 **Autosampler Location: 11**
Sample ID: CCB **Date Collected: 10/29/2020 12:59:24**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.0004	-0.0004	-0.0000	0.0004	0.0001	13:00:29	Yes
2	-0.0017	-0.0017	-0.0000	0.0003	0.0001	13:01:04	Yes
3	0.0026	0.0026	0.0000	0.0010	0.0002	13:01:39	Yes
Mean:	0.0002	0.0002	0.0000				
SD:	0.0022	0.0022	0.0000				
%RSD:	>999.9%	>999.9%	>999.9%				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 142 **Autosampler Location: 17**
Sample ID: WG1427935-1 P **Date Collected: 10/29/2020 13:01:41**
Analyst: **Data Type: Original**

Replicate Data: WG1427935-1 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.0006	-0.0006	-0.0000	0.0008	0.0001	13:02:46	Yes
2	0.0007	0.0007	0.0000	0.0005	0.0002	13:03:21	Yes
3	0.0015	0.0015	0.0000	0.0009	0.0002	13:03:56	Yes
Mean:	0.0005	0.0005	0.0000				
SD:	0.0011	0.0011	0.0000				
%RSD:	210.7	210.7	210.69				

==========

Sequence No.: 143 **Autosampler Location: 18**
Sample ID: WG1427935-2 P **Date Collected: 10/29/2020 13:03:57**
Analyst: **Data Type: Original**

Replicate Data: WG1427935-2 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.053	1.053	0.0136	0.0704	0.0137	13:05:02	Yes
2	1.032	1.032	0.0133	0.0692	0.0135	13:05:37	Yes
3	1.052	1.052	0.0136	0.0693	0.0137	13:06:12	Yes
Mean:	1.046	1.046	0.0135				
SD:	0.0120	0.0120	0.0002				
%RSD:	1.149	1.149	1.15				

==========

Sequence No.: 144 **Autosampler Location: 19**
Sample ID: L2046745-12 P **Date Collected: 10/29/2020 13:06:13**
Analyst: **Data Type: Original**

Replicate Data: L2046745-12 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.2292	0.2292	0.0030	0.0160	0.0031	13:07:19	Yes
2	0.2338	0.2338	0.0030	0.0163	0.0032	13:07:54	Yes
3	0.2238	0.2238	0.0029	0.0157	0.0030	13:08:29	Yes
Mean:	0.2289	0.2289	0.0030				

SD:	0.0050	0.0050	0.0001
%RSD:	2.197	2.197	2.20

Sequence No.: 145 **Autosampler Location: 20**
Sample ID: L2046745-13 P **Date Collected: 10/29/2020 13:08:30**
Analyst: **Data Type: Original**

Replicate Data: L2046745-13 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0069	0.0069	0.0001	0.0014	0.0002	13:09:35	Yes
2	0.0095	0.0095	0.0001	0.0015	0.0003	13:10:10	Yes
3	0.0086	0.0086	0.0001	0.0015	0.0003	13:10:45	Yes
Mean:	0.0083	0.0083	0.0001				
SD:	0.0013	0.0013	0.0000				
%RSD:	15.63	15.63	15.63				

Sequence No.: 146 **Autosampler Location: 21**
Sample ID: L2046745-14 P **Date Collected: 10/29/2020 13:10:47**
Analyst: **Data Type: Original**

Replicate Data: L2046745-14 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0186	0.0186	0.0002	0.0020	0.0004	13:11:53	Yes
2	0.0172	0.0172	0.0002	0.0017	0.0004	13:12:28	Yes
3	0.0227	0.0227	0.0003	0.0025	0.0004	13:13:03	Yes
Mean:	0.0195	0.0195	0.0003				
SD:	0.0029	0.0029	0.0000				
%RSD:	14.88	14.88	14.88				

Sequence No.: 147 **Autosampler Location: 22**
Sample ID: L2046745-15 P **Date Collected: 10/29/2020 13:13:05**
Analyst: **Data Type: Original**

Replicate Data: L2046745-15 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0582	0.0582	0.0008	0.0046	0.0009	13:14:10	Yes
2	0.0560	0.0560	0.0007	0.0045	0.0009	13:14:45	Yes
3	0.0578	0.0578	0.0007	0.0046	0.0009	13:15:20	Yes
Mean:	0.0573	0.0573	0.0007				
SD:	0.0011	0.0011	0.0000				
%RSD:	1.982	1.982	1.98				

Sequence No.: 148 **Autosampler Location: 23**
Sample ID: L2046745-16 P **Date Collected: 10/29/2020 13:15:21**
Analyst: **Data Type: Original**

Replicate Data: L2046745-16 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0071	0.0071	0.0001	0.0013	0.0002	13:16:26	Yes
2	0.0020	0.0020	0.0000	0.0004	0.0002	13:17:01	Yes
3	0.0041	0.0041	0.0001	0.0008	0.0002	13:17:37	Yes
Mean:	0.0044	0.0044	0.0001				
SD:	0.0026	0.0026	0.0000				
%RSD:	57.63	57.63	57.63				

Sequence No.: 149 **Autosampler Location: 24**
Sample ID: L2046745-17 P **Date Collected: 10/29/2020 13:17:38**
Analyst: **Data Type: Original**

Replicate Data: L2046745-17 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0873	0.0873	0.0011	0.0067	0.0013	13:18:43	Yes
2	0.0849	0.0849	0.0011	0.0064	0.0012	13:19:19	Yes
3	0.0904	0.0904	0.0012	0.0064	0.0013	13:19:54	Yes

Mean:	0.0875	0.0875	0.0011
SD:	0.0027	0.0027	0.0000
%RSD:	3.114	3.114	3.11

==========

Sequence No.: 150 **Autosampler Location: 25**
Sample ID: L2046745-18 P **Date Collected: 10/29/2020 13:19:55**
Analyst: **Data Type: Original**

Replicate Data: L2046745-18 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0706	0.0706	0.0009	0.0057	0.0011	13:21:00	Yes
2	0.0649	0.0649	0.0008	0.0051	0.0010	13:21:35	Yes
3	0.0655	0.0655	0.0008	0.0047	0.0010	13:22:10	Yes
Mean:	0.0670	0.0670	0.0009				
SD:	0.0031	0.0031	0.0000				
%RSD:	4.635	4.635	4.64				

==========

Sequence No.: 151 **Autosampler Location: 26**
Sample ID: L2046745-19 P **Date Collected: 10/29/2020 13:22:12**
Analyst: **Data Type: Original**

Replicate Data: L2046745-19 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0318	0.0318	0.0004	0.0030	0.0006	13:23:17	Yes
2	0.0287	0.0287	0.0004	0.0028	0.0005	13:23:53	Yes
3	0.0314	0.0314	0.0004	0.0026	0.0006	13:24:28	Yes
Mean:	0.0306	0.0306	0.0004				
SD:	0.0017	0.0017	0.0000				
%RSD:	5.614	5.614	5.61				

==========

Sequence No.: 152 **Autosampler Location: 10**
Sample ID: CCV **Date Collected: 10/29/2020 13:24:29**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.015	1.015	0.0131	0.0435	0.0132	13:25:35	Yes
2	0.0357	0.0357	0.0005	0.0022	0.0006	13:26:10	Yes
3	0.0005	0.0005	0.0000	0.0003	0.0002	13:26:45	Yes
Mean:	0.3504	0.3504	0.0045				
SD:	0.5758	0.5758	0.0074				
%RSD:	164.3	164.3	164.34				

QC value less than the lower limit for Hg 253.7 Recovery = 3.50%
QC Failed. Stop the analysis.

==========

Analysis Begun

Logged In Analyst: metals-instrument **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: S10**

Sample Information File: C:\data-AA\Alpha\Sample Information\102920A.sif
Batch ID: EW
Results Data Set: HG102920A
Results Library: C:\data-AA\Alpha\Results\Results.mdb

==========

Sequence No.: 153 **Autosampler Location: 11**
Sample ID: CCB **Date Collected: 10/29/2020 13:37:50**
Analyst: **Data Type: Original**
User canceled analysis.

==========

Analysis Begun

Logged In Analyst: metals-instrument **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: S10**

Sample Information File: C:\data-AA\Alpha\Sample Information\102920A.sif
Batch ID: EW

Results Data Set: HG102920A
Results Library: C:\data-AA\Alpha\Results\Results.mdb

Sequence No.: 152 Autosampler Location: 10
Sample ID: CCV Date Collected: 10/29/2020 13:38:27
Analyst: Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	11.21	11.21	0.1447	0.7425	0.1448	13:39:33	Yes
2	11.20	11.20	0.1445	0.7398	0.1447	13:40:08	Yes
3	11.20	11.20	0.1445	0.7455	0.1447	13:40:43	Yes
Mean:	11.20	11.20	0.1446				
SD:	0.0065	0.0065	0.0001				
%RSD:	0.0581	0.0581	0.06				

QC value greater than the upper limit for Hg 253.7 Recovery = 112.03%
QC Failed. Stop the analysis.

OK for 7470A

Analysis Begun

Logged In Analyst: metals-instrument Technique: AA FIMS-MHS
Spectrometer Model: FIMS-100, S/N B050-9550 Autosampler Model: S10

Sample Information File: C:\data-AA\Alpha\Sample Information\102920A.sif
Batch ID: EW
Results Data Set: HG102920A
Results Library: C:\data-AA\Alpha\Results\Results.mdb

Sequence No.: 153 Autosampler Location: 11
Sample ID: CCB Date Collected: 10/29/2020 13:42:29
Analyst: Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0060	0.0060	0.0001	0.0018	0.0002	13:43:35	Yes
2	-0.0016	-0.0016	-0.0000	0.0004	0.0001	13:44:10	Yes
3	-0.0080	-0.0080	-0.0001	0.0002	0.0000	13:44:45	Yes
Mean:	-0.0012	-0.0012	-0.0000				
SD:	0.0070	0.0070	0.0001				
%RSD:	598.5	598.5	598.53				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 154 Autosampler Location: 27
Sample ID: L2046745-20 P Date Collected: 10/29/2020 13:44:46
Analyst: Data Type: Original

Replicate Data: L2046745-20 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0360	0.0360	0.0005	0.0029	0.0006	13:45:52	Yes
2	0.0392	0.0392	0.0005	0.0032	0.0007	13:46:26	Yes
3	0.0363	0.0363	0.0005	0.0030	0.0006	13:47:01	Yes
Mean:	0.0372	0.0372	0.0005				
SD:	0.0018	0.0018	0.0000				
%RSD:	4.832	4.832	4.83				

Sequence No.: 155 Autosampler Location: 28
Sample ID: L2046745-21 P Date Collected: 10/29/2020 13:47:03
Analyst: Data Type: Original

Replicate Data: L2046745-21 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0238	0.0238	0.0003	0.0022	0.0005	13:48:09	Yes
2	0.0233	0.0233	0.0003	0.0020	0.0004	13:48:44	Yes
3	0.0239	0.0239	0.0003	0.0023	0.0005	13:49:19	Yes
Mean:	0.0237	0.0237	0.0003				

SD:	0.0003	0.0003	0.0000
%RSD:	1.323	1.323	1.32

==========

Sequence No.: 156 **Autosampler Location: 29**
Sample ID: L2046745-22 P **Date Collected: 10/29/2020 13:49:21**
Analyst: **Data Type: Original**

Replicate Data: L2046745-22 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0024	0.0024	0.0000	0.0006	0.0002	13:50:26	Yes
2	0.0023	0.0023	0.0000	0.0012	0.0002	13:51:01	Yes
3	0.0044	0.0044	0.0001	0.0011	0.0002	13:51:36	Yes
Mean:	0.0030	0.0030	0.0000				
SD:	0.0012	0.0012	0.0000				
%RSD:	39.25	39.25	39.25				

==========

Sequence No.: 157 **Autosampler Location: 30**
Sample ID: L2046745-23 P **Date Collected: 10/29/2020 13:51:37**
Analyst: **Data Type: Original**

Replicate Data: L2046745-23 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.2325	0.2325	0.0030	0.0163	0.0031	13:52:43	Yes
2	0.2273	0.2273	0.0029	0.0155	0.0031	13:53:17	Yes
3	0.2295	0.2295	0.0030	0.0160	0.0031	13:53:52	Yes
Mean:	0.2298	0.2298	0.0030				
SD:	0.0026	0.0026	0.0000				
%RSD:	1.134	1.134	1.13				

==========

Sequence No.: 158 **Autosampler Location: 31**
Sample ID: L2046745-24 P **Date Collected: 10/29/2020 13:53:54**
Analyst: **Data Type: Original**

Replicate Data: L2046745-24 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.1332	0.1332	0.0017	0.0098	0.0019	13:54:59	Yes
2	0.1374	0.1374	0.0018	0.0103	0.0019	13:55:34	Yes
3	0.1362	0.1362	0.0018	0.0102	0.0019	13:56:09	Yes
Mean:	0.1356	0.1356	0.0017				
SD:	0.0021	0.0021	0.0000				
%RSD:	1.575	1.575	1.57				

==========

Sequence No.: 159 **Autosampler Location: 32**
Sample ID: L2046745-25 P **Date Collected: 10/29/2020 13:56:10**
Analyst: **Data Type: Original**

Replicate Data: L2046745-25 P

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0031	0.0031	0.0000	0.0006	0.0002	13:57:16	Yes
2	0.0051	0.0051	0.0001	0.0008	0.0002	13:57:51	Yes
3	0.0078	0.0078	0.0001	0.0014	0.0002	13:58:26	Yes
Mean:	0.0053	0.0053	0.0001				
SD:	0.0024	0.0024	0.0000				
%RSD:	44.31	44.31	44.31				

==========

Sequence No.: 160 **Autosampler Location: 33**
Sample ID: WG1427567-1 T **Date Collected: 10/29/2020 13:58:27**
Analyst: **Data Type: Original**

Replicate Data: WG1427567-1 T

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0073	0.0073	0.0001	0.0013	0.0002	13:59:33	Yes
2	0.0076	0.0076	0.0001	0.0014	0.0002	14:00:08	Yes
3	0.0089	0.0089	0.0001	0.0017	0.0003	14:00:43	Yes

Mean:	0.0079	0.0079	0.0001
SD:	0.0008	0.0008	0.0000
%RSD:	10.14	10.14	10.14

==========

Sequence No.: 161 **Autosampler Location: 34**
Sample ID: WG1427567-2 T **Date Collected: 10/29/2020 14:00:45**
Analyst: **Data Type: Original**

Replicate Data: WG1427567-2 T

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.102	1.102	0.0142	0.0744	0.0144	14:01:50	Yes
2	1.095	1.095	0.0141	0.0736	0.0143	14:02:25	Yes
3	1.082	1.082	0.0140	0.0732	0.0141	14:03:00	Yes
Mean:	1.093	1.093	0.0141				
SD:	0.0100	0.0100	0.0001				
%RSD:	0.9126	0.9126	0.91				

==========

Sequence No.: 162 **Autosampler Location: 35**
Sample ID: WG1427567-3 T **Date Collected: 10/29/2020 14:03:01**
Analyst: **Data Type: Original**

Replicate Data: WG1427567-3 T

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.122	1.122	0.0145	0.0758	0.0146	14:04:09	Yes
2	1.115	1.115	0.0144	0.0757	0.0145	14:04:44	Yes
3	1.075	1.075	0.0139	0.0731	0.0140	14:05:19	Yes
Mean:	1.104	1.104	0.0142				
SD:	0.0256	0.0256	0.0003				
%RSD:	2.316	2.316	2.32				

==========

Sequence No.: 163 **Autosampler Location: 36**
Sample ID: L2045820-01 T **Date Collected: 10/29/2020 14:05:20**
Analyst: **Data Type: Original**

Replicate Data: L2045820-01 T

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0090	0.0090	0.0001	0.0014	0.0003	14:06:26	Yes
2	0.0085	0.0085	0.0001	0.0016	0.0003	14:07:01	Yes
3	0.0050	0.0050	0.0001	0.0013	0.0002	14:07:36	Yes
Mean:	0.0075	0.0075	0.0001				
SD:	0.0021	0.0021	0.0000				
%RSD:	28.57	28.57	28.57				

==========

Sequence No.: 164 **Autosampler Location: 10**
Sample ID: CCV **Date Collected: 10/29/2020 14:07:37**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	11.49	11.49	0.1483	0.7641	0.1484	14:08:43	Yes
2	11.05	11.05	0.1426	0.7343	0.1427	14:09:18	Yes
3	11.49	11.49	0.1482	0.7546	0.1484	14:09:53	Yes
Mean:	11.34	11.34	0.1464				
SD:	0.2543	0.2543	0.0033				
%RSD:	2.242	2.242	2.24				

QC value greater than the upper limit for Hg 253.7 Recovery = 113.42%
QC Failed. Stop the analysis.

OK for 7470A

==========

Analysis Begun

Logged In Analyst: metals-instrument **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: S10**

Sample Information File: C:\data-AA\Alpha\Sample Information\102920A.sif
Batch ID: EW
Results Data Set: HG102920A

Results Library: C:\data-AA\Alpha\Results\Results.mdb

==========

Sequence No.: 165 **Autosampler Location: 11**
Sample ID: CCB **Date Collected: 10/29/2020 14:10:20**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.9871	0.9871	0.0127	0.0424	0.0129	14:11:26	Yes
2	0.0277	0.0277	0.0004	0.0016	0.0005	14:12:00	Yes
3	0.0140	0.0140	0.0002	0.0002	0.0003	14:12:35	Yes
Mean:	0.3429	0.3429	0.0044				
SD:	0.5579	0.5579	0.0072				
%RSD:	162.7	162.7	162.69				

QC value greater than the upper limit for Hg 253.7 Recovery = Not calculated
QC Failed. Stop the analysis.

==========

Analysis Begun

Logged In Analyst: metals-instrument **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: S10**

Sample Information File: C:\data-AA\Alpha\Sample Information\102920A.sif
Batch ID: EW
Results Data Set: HG102920A
Results Library: C:\data-AA\Alpha\Results\Results.mdb

==========

Sequence No.: 165 **Autosampler Location: 11**
Sample ID: CCB **Date Collected: 10/29/2020 14:13:20**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0553	0.0553	0.0007	0.0043	0.0009	14:14:26	Yes
2	0.0564	0.0564	0.0007	0.0045	0.0009	14:15:01	Yes
3	0.0591	0.0591	0.0008	0.0049	0.0009	14:15:36	Yes
Mean:	0.0569	0.0569	0.0007				
SD:	0.0019	0.0019	0.0000				
%RSD:	3.381	3.381	3.38				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 166 **Autosampler Location: 37**
Sample ID: L2046229-10 T **Date Collected: 10/29/2020 14:15:37**
Analyst: **Data Type: Original**

Replicate Data: L2046229-10 T

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0048	0.0048	0.0001	0.0011	0.0002	14:16:43	Yes
2	0.0049	0.0049	0.0001	0.0014	0.0002	14:17:18	Yes
3	0.0064	0.0064	0.0001	0.0012	0.0002	14:17:53	Yes
Mean:	0.0054	0.0054	0.0001				
SD:	0.0009	0.0009	0.0000				
%RSD:	16.32	16.32	16.32				

==========

Sequence No.: 167 **Autosampler Location: 38**
Sample ID: WG1428021-1 C **Date Collected: 10/29/2020 14:17:55**
Analyst: **Data Type: Original**

Replicate Data: WG1428021-1 C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0042	0.0042	0.0001	0.0008	0.0002	14:19:00	Yes
2	0.0098	0.0098	0.0001	0.0017	0.0003	14:19:35	Yes
3	0.0076	0.0076	0.0001	0.0014	0.0002	14:20:10	Yes
Mean:	0.0072	0.0072	0.0001				
SD:	0.0028	0.0028	0.0000				

%RSD: 38.70 38.70 38.70

==========

Sequence No.: 168 **Autosampler Location: 39**
Sample ID: WG1428021-2 C **Date Collected: 10/29/2020 14:20:11**
Analyst: **Data Type: Original**

Replicate Data: WG1428021-2 C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.135	1.135	0.0147	0.0749	0.0148	14:21:16	Yes
2	1.063	1.063	0.0137	0.0707	0.0139	14:21:51	Yes
3	1.056	1.056	0.0136	0.0713	0.0138	14:22:26	Yes
Mean:	1.085	1.085	0.0140				
SD:	0.0439	0.0439	0.0006				
%RSD:	4.047	4.047	4.05				

==========

Sequence No.: 169 **Autosampler Location: 40**
Sample ID: L2046655-01 C **Date Collected: 10/29/2020 14:22:28**
Analyst: **Data Type: Original**

Replicate Data: L2046655-01 C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0129	0.0129	0.0002	0.0018	0.0003	14:23:33	Yes
2	0.0107	0.0107	0.0001	0.0017	0.0003	14:24:08	Yes
3	0.0078	0.0078	0.0001	0.0010	0.0002	14:24:43	Yes
Mean:	0.0105	0.0105	0.0001				
SD:	0.0026	0.0026	0.0000				
%RSD:	24.77	24.77	24.77				

==========

Sequence No.: 170 **Autosampler Location: 41**
Sample ID: WG1428021-3 C **Date Collected: 10/29/2020 14:24:44**
Analyst: **Data Type: Original**

Replicate Data: WG1428021-3 C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.378	5.378	0.0694	0.3580	0.0695	14:25:49	Yes
2	5.267	5.267	0.0680	0.3485	0.0681	14:26:24	Yes
3	5.163	5.163	0.0666	0.3462	0.0668	14:26:59	Yes
Mean:	5.269	5.269	0.0680				
SD:	0.1079	0.1079	0.0014				
%RSD:	2.047	2.047	2.05				

==========

Sequence No.: 171 **Autosampler Location: 42**
Sample ID: WG1428021-4 C **Date Collected: 10/29/2020 14:27:01**
Analyst: **Data Type: Original**

Replicate Data: WG1428021-4 C

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0163	0.0163	0.0002	0.0021	0.0004	14:28:07	Yes
2	0.0104	0.0104	0.0001	0.0012	0.0003	14:28:43	Yes
3	0.0068	0.0068	0.0001	0.0011	0.0002	14:29:18	Yes
Mean:	0.0112	0.0112	0.0001				
SD:	0.0048	0.0048	0.0001				
%RSD:	43.01	43.01	43.01				

==========

Sequence No.: 172 **Autosampler Location: 10**
Sample ID: CCV **Date Collected: 10/29/2020 14:29:19**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	11.09	11.09	0.1432	0.7352	0.1433	14:30:26	Yes
2	11.31	11.31	0.1459	0.7420	0.1461	14:31:01	Yes
3	11.28	11.28	0.1455	0.7411	0.1457	14:31:36	Yes
Mean:	11.23	11.23	0.1449				

SD: 0.1168 0.1168 0.0015
%RSD: 1.040 1.040 1.04
QC value greater than the upper limit for Hg 253.7 Recovery = 112.28%
QC Failed. Stop the analysis.

OK for 7470A

==========

Analysis Begun

Logged In Analyst: metals-instrument **Technique: AA FIMS-MHS**
Spectrometer Model: FIMS-100, S/N B050-9550 **Autosampler Model: S10**

Sample Information File: C:\data-AA\Alpha\Sample Information\102920A.sif
Batch ID: EW
Results Data Set: HG102920A
Results Library: C:\data-AA\Alpha\Results\Results.mdb

==========

Sequence No.: 173 **Autosampler Location: 11**
Sample ID: CCB **Date Collected: 10/29/2020 14:33:05**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.0578	0.0578	0.0007	0.0049	0.0009	14:34:11	Yes
2	0.0608	0.0608	0.0008	0.0050	0.0009	14:34:46	Yes
3	0.0592	0.0592	0.0008	0.0048	0.0009	14:35:21	Yes
Mean:	0.0593	0.0593	0.0008				
SD:	0.0015	0.0015	0.0000				
%RSD:	2.559	2.559	2.56				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

MERCURY TRUE VALUE CRITERIA

ICV	3 ug/l
LCSW	1 ug/l
MS	1 ug/l
CCV	5 ug/l

As of 6/1/13, Mercury True Value criteria is as follows:

ICV	3 ug/l
LCSW	1 ug/l
MS(aq)	5 ug/l
MS(soil)	1 ug/l
CCV	10 ug/l

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck



ISO/IEC GUIDE 34:2009 ACCREDITED REFERENCE MATERIAL PRODUCER CERTIFICATE NO. 1539.03

ISO/IEC 17025:2005 ACCREDITED CHEMICAL TESTING LABORATORY CERTIFICATE NO. 1539.02

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Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

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Reference Material

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Matthew Seebeck

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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

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ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

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▪ Certificate of Analysis ▪

1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

$U_{expanded}$ = Expanded uncertainty.
k = Coverage factor.
U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
$U_{homogen}$ = Standard uncertainty of the homogeneity assessment.
U_{LTS} = Standard uncertainty associated with long-term stability.
U_{STS} = Standard uncertainty associated with short-term (transport) stability.
U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

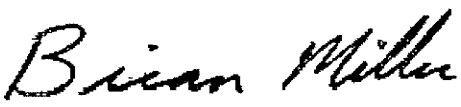
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck



Calculation of 7470A Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x (1mg/1000µg) x (DF)

Calculation of 7471B Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x (1mg/1000µg) x (DF)

The result in mg/kg is calculated on a dry weight basis using the sample weight digested(Wt), the final volume of the digestate(FV), and the percent total solids(%TS).

Result, mg/kg, wet = ((result, mg/L) x (FV)) /Wt

Result, mg/kg, dry wt = (Result, mg/kg wet)/(%TS)

Analytical Sequence

Method : 0.2-20ppb AQ102416

FIMS4
10/29/20a

REVIEWED
By dmorisseau at 9:24 am, Oct 30, 2020

Seq.	Loc.	Sample ID	Status
1	1	Calib Blank	Applied
2	2	0.2 ppb	Applied
3	3	1.0 ppb	Applied
4	4	2.0 ppb	Applied
5	5	5.0 ppb	Applied
6	6	10.0 ppb	Applied
7	7	20.0 ppb	Applied
8	8	ICV	QC Passed
9	9	ICB	QC Passed
10	2	0.2 PPB	Analyzed
11	12	WG1427618-1 U	Analyzed
12	13	WG1427618-2 U	Analyzed
13	14	L2046799-01 U	Analyzed
14	15	WG1427618-3 U	Analyzed
15	16	WG1427618-4 U	Analyzed
16	17	L2046131-01 U	Analyzed
17	18	L2046131-02 U	Analyzed
18	19	L2046190-01 U	Analyzed
19	20	L2046193-01 U	Analyzed
20	10	CCV	QC Passed
21	11	CCB	QC Passed
22	21	L2046200-01 U	Analyzed
23	22	L2046548-01 U	Analyzed
24	23	L2046703-01 U	Analyzed
25	24	L2046717-01 U	Analyzed
26	25	L2046799-02 U	Analyzed
27	26	L2046812-02 U	Analyzed
28	27	WG1427503-1 U	Analyzed
29	28	WG1427503-2 U	Analyzed
30	29	L2046364-01 U	Analyzed
31	30	WG1427503-3 U	Analyzed
32	10	CCV	QC Passed
33	11	CCB	QC Passed
34	31	WG1427503-4 U	Analyzed
35	32	L2046075-01 U	Analyzed
36	33	L2046076-01 U	Analyzed
37	34	WG1427120-1 U	Analyzed
38	35	WG1427120-2 U	Analyzed
39	36	L2045583-01 U	Analyzed
40	37	WG1427120-3 U	Analyzed
41	38	WG1427120-4 U	Analyzed
42	39	L2045590-01 U	Analyzed
43	40	WG1427773-1 U	Analyzed
44	10	CCV	QC Passed
45	11	CCB	QC Passed
46	41	WG1427773-2 U	Analyzed
47	42	L2046663-02 U	Analyzed
48	43	WG1427773-3 U	Analyzed
49	44	WG1427773-4 U	Analyzed
50	45	L2046524-01 U	Analyzed
51	46	L2046524-02 U	Analyzed
52	47	L2046663-01 U	Analyzed
53	48	L2046663-03 U	Analyzed
54	49	L2046727-01 U	Analyzed
55	50	L2046727-02 U	Analyzed
56	10	CCV	QC Passed
57	11	CCB	QC Passed
58	51	WG1427517-1 C	Analyzed
59	52	WG1427517-2 C	Analyzed
60	53	L2044986-03 C	Analyzed
61	54	WG1427517-3 C	Analyzed
62	55	WG1427517-4 C	Analyzed

Analytical Sequence

Method : 0.2-20ppb AQ102416

Seq.	Loc.		Sample ID	Status
63	56		L2045914-01 C	Analyzed
64	57		L2045917-01 C	Analyzed
65	58		L2045966-01 C	Analyzed
66	59		L2046290-02 C	Analyzed
67	60		L2046473-01 C	Analyzed
68	10	QC	CCV	QC Passed
69	11	QC	CCB	QC Passed
70	61		L2046475-02 C	Analyzed
71	62		L2046547-01 C	Analyzed
72	12		L2046547-02 C	Analyzed
73	13		WG1427728-1 S	Analyzed
74	14		WG1427728-2 S	Analyzed
75	15		L2046625-01 S	Analyzed
76	16		WG1427728-3 S	Analyzed
77	17		WG1427728-4 S	Analyzed
78	41		WG1427773-2 U	Analyzed
79	18		L2046625-02 S	Analyzed
80	10	QC	CCV	QC Passed
81	11	QC	CCB	QC Passed
82	19		L2046625-03 S	Analyzed
83	20		L2046790-01 S	Analyzed
84	21		L2046790-02 S	Analyzed
85	22		L2046790-03 S	Analyzed
86	23		L2046790-04 S	Analyzed
87	24		WG1427056-1 C	Analyzed
88	25		WG1427056-2 C	Analyzed
89	26		L2046147-01 C	Analyzed
90	27		WG1427056-3 C	Analyzed
91	28		WG1427056-4 C	Analyzed
92	10	QC	CCV	QC Passed
93	11	QC	CCB	QC Passed
94	29		L2046147-02 C	Analyzed
95	30		WG1427632-1 T	Analyzed
96	31		WG1427632-2 T	Analyzed
97	32		L2046625-01 T	Analyzed
98	33		WG1427632-3 T	Analyzed
99	34		WG1427632-4 T	Analyzed
100	35		L2046625-02 T	Analyzed
101	36		L2046625-03 T	Analyzed
102	37		L2046790-01 T	Analyzed
103	38		L2046790-02 T	Analyzed
104	10	QC	CCV	QC Passed
105	11	QC	CCB	QC Passed
106	39		L2046790-03 T	Analyzed
107	40		L2046790-04 T	Analyzed
108	41		WG1426713-1 S	Analyzed
109	42		WG1426713-2 S	Analyzed
110	43		L2046112-06 S	Analyzed
111	44		WG1426713-3 S	Analyzed
112	45		WG1426713-4 S	Analyzed
113	46		L2046112-07 S	Analyzed
114	47		L2046112-08 S	Analyzed
115	48		WG1427560-1 P	Analyzed
116	10	QC	CCV	QC Passed
117	11	QC	CCB	QC Passed
118	49		WG1427560-2 P	Analyzed
119	50		L2046376-01 P	Analyzed
120	51		WG1427560-3 P	Analyzed
121	52		WG1427560-4 P	Analyzed
122	53		L2046376-02 P	Analyzed
123	54		L2046376-03 P	Analyzed
124	55		WG1427931-1 P	Analyzed

Analytical Sequence

Method : 0.2-20ppb AQ102416

Seq.	Loc.		Sample ID	Status	
125	56		WG1427931-2 P	Analyzed	
126	57		L2046745-01 P	Analyzed	
127	58		L2046745-02 P	Analyzed	
128	10	QC	CCV	QC Passed	
129	11	QC	CCB	QC Failed	
130	11	QC	CCB	QC Passed	
131	1		PS 5583-01 U	Analyzed	
132	59		L2046745-03 P	Analyzed	
133	60		L2046745-04 P	Analyzed	
134	61		L2046745-05 P	Analyzed	
135	62		L2046745-06 P	Analyzed	
136	12		L2046745-07 P	Analyzed	
137	13		L2046745-08 P	Analyzed	
138	14		L2046745-09 P	Analyzed	
139	15		L2046745-10 P	Analyzed	
140	16		L2046745-11 P	Analyzed	
141	10	QC	CCV	QC Passed	
142	11	QC	CCB	QC Passed	
143	17		WG1427935-1 P	Analyzed	
144	18		WG1427935-2 P	Analyzed	
145	19		L2046745-12 P	Analyzed	
146	20		L2046745-13 P	Analyzed	
147	21		L2046745-14 P	Analyzed	
148	22		L2046745-15 P	Analyzed	
149	23		L2046745-16 P	Analyzed	
150	24		L2046745-17 P	Analyzed	
151	25		L2046745-18 P	Analyzed	
152	26		L2046745-19 P	Analyzed	
153	10	QC	CCV	QC Failed	
154	10	QC	CCV	QC Failed	← OK for 7470A
155	11	QC	CCB	QC Passed	
156	27		L2046745-20 P	Analyzed	
157	28		L2046745-21 P	Analyzed	
158	29		L2046745-22 P	Analyzed	
159	30		L2046745-23 P	Analyzed	
160	31		L2046745-24 P	Analyzed	
161	32		L2046745-25 P	Analyzed	
162	33		WG1427567-1 T	Analyzed	
163	34		WG1427567-2 T	Analyzed	
164	35		WG1427567-3 T	Analyzed	
165	36		L2045820-01 T	Analyzed	
166	10	QC	CCV	QC Failed	← OK for 7470A
167	11	QC	CCB	QC Failed	
168	11	QC	CCB	QC Passed	
169	37		L2046229-10 T	Analyzed	
170	38		WG1428021-1 C	Analyzed	
171	39		WG1428021-2 C	Analyzed	
172	40		L2046655-01 C	Analyzed	
173	41		WG1428021-3 C	Analyzed	
174	42		WG1428021-4 C	Analyzed	
175	10	QC	CCV	QC Failed	← OK for 7470A
176	11	QC	CCB	QC Passed	

METALS ELN REPORT

Workgroup: WG1427632

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 7470A	HNO3	20310038	H2SO4	19340192	METALS	METSPIKE	HG20442806420OL	METSPIKE	HG20442806420OL	251,241

Additional Reagent/Std	K2O8S2	PS2044271013LC
	KMnO4	PP2043201546CH
	NaCl-NH2OH.HCl	HH2042171625AL
		ICV2040031605AL

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2046625-01 WATER	10/28/20 16:18	Christine Hamor	25		10/28/20 16:18	8	95.5	10/28/20 18:18	25	
L2046625-02 WATER	10/28/20 16:18	Christine Hamor	25		10/28/20 16:18	8	95.5	10/28/20 18:18	25	
L2046625-03 WATER	10/28/20 16:18	Christine Hamor	25		10/28/20 16:18	8	95.5	10/28/20 18:18	25	
L2046790-01 WATER	10/28/20 16:18	Christine Hamor	25		10/28/20 16:18	8	95.5	10/28/20 18:18	25	
L2046790-02 WATER	10/28/20 16:18	Christine Hamor	25		10/28/20 16:18	8	95.5	10/28/20 18:18	25	
L2046790-03 WATER	10/28/20 16:18	Christine Hamor	25		10/28/20 16:18	8	95.5	10/28/20 18:18	25	
L2046790-04 WATER	10/28/20 16:18	Christine Hamor	25		10/28/20 16:18	8	95.5	10/28/20 18:18	25	
WG1427632-1 BLANK	10/28/20 16:18	Christine Hamor	25		10/28/20 16:18	8	95.5	10/28/20 18:18	25	
WG1427632-2 LCS	10/28/20 16:18	Christine Hamor	25	.25	10/28/20 16:18	8	95.5	10/28/20 18:18	25	
WG1427632-3 MS	10/28/20 16:18	Christine Hamor	25	1.25	10/28/20 16:18	8	95.5	10/28/20 18:18	25	

METALS ELN REPORT

Workgroup: WG1427632

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
WG1427632-4 DUP	10/28/20 16:18	Christine Hamor	25		10/28/20 16:18	8	95.5	10/28/20 18:18	25	

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganat	3.75	ml
Potassium Persulfate (K	2	ml
NaCl-Hydroxylamine Hy	1.5	ml

Reported: 06-JAN-21 02:06 PM

METALS ELN REPORT

Workgroup: WG1427728

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 7470A	HNO3	20310038	H2SO4	19340192	METALS	METSPIKE	ICV2040031605AL	METSPIKE	HG20442806241,142420OL	

Additional Reagent/Std	KMnO4	PP2043201546CH
	NaCl-NH2OH.HCl	HH2042171625AL
	K2O8S2	PS2044271013LC

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol ml	Spike Amt	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2046625-01 WATER	10/29/20 02:50	Lily Fisher	10-28-20 10:57	25		10/29/20 02:50	5	95.0	10/29/20 04:50	25	
L2046625-02 WATER	10/29/20 02:50	Lily Fisher	10-28-20 10:57	25		10/29/20 02:50	5	95.0	10/29/20 04:50	25	
L2046625-03 WATER	10/29/20 02:50	Lily Fisher	10-28-20 10:57	25		10/29/20 02:50	5	95.0	10/29/20 04:50	25	
L2046790-01 WATER	10/29/20 02:50	Lily Fisher	10-28-20 10:57	25		10/29/20 02:50	5	95.0	10/29/20 04:50	25	
L2046790-02 WATER	10/29/20 02:50	Lily Fisher	10-28-20 10:57	25		10/29/20 02:50	5	95.0	10/29/20 04:50	25	
L2046790-03 WATER	10/29/20 02:50	Lily Fisher	10-28-20 10:57	25		10/29/20 02:50	5	95.0	10/29/20 04:50	25	
L2046790-04 WATER	10/29/20 02:50	Lily Fisher	10-28-20 10:57	25		10/29/20 02:50	5	95.0	10/29/20 04:50	25	
WG1427728-1 BLANK	10/29/20 02:50	Lily Fisher	10/28/20 10:57	25		10/29/20 02:50	5	95.0	10/29/20 04:50	25	
WG1427728-2 LCS	10/29/20 02:50	Lily Fisher	NA	25	0.250	10/29/20 02:50	5	95.0	10/29/20 04:50	25	
WG1427728-3 MS	10/29/20 02:50	Lily Fisher	NA	25	1.250	10/29/20 02:50	5	95.0	10/29/20 04:50	25	
WG1427728-4 DUP	10/29/20 02:50	Lily Fisher	NA	25		10/29/20 02:50	5	95.0	10/29/20 04:50	25	

Reported: 06-JAN-21 02:06 PM

METALS ELN REPORT

Workgroup: WG1427728

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganat	3.75	ml
Potassium Persulfate (K	2	ml
NaCl-Hydroxylamine Hy	1.5	ml

Reported: 06-JAN-21 02:06 PM

Trivalent Chromium Analysis

Results

Form 1
METALS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-01	**Date Collected**	: 10/27/20 08:15
Client ID	: MW-1	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 14:02
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	:
Lab File ID	: --	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16065-83-1	Chromium, Trivalent	0.117	0.010	0.010	

Form 1
METALS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-02	**Date Collected**	: 10/27/20 09:30
Client ID	: MW-2	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 14:07
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	:
Lab File ID	: --	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16065-83-1	Chromium, Trivalent	ND	0.010	0.010	U

Form 1
METALS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-03	**Date Collected**	: 10/27/20 10:15
Client ID	: MW-3	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 14:12
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	:
Lab File ID	: --	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16065-83-1	Chromium, Trivalent	0.035	0.010	0.010	

Form 1
METALS

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-04	**Date Collected**	: 10/27/20 08:45
Client ID	: TWP-1	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/29/20 14:17
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	:
Lab File ID	: --	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16065-83-1	Chromium, Trivalent	0.140	0.010	0.010	

Calculations of Trivalent Chromium

Calculate the concentration value based on results for Total Chromium and Hexavalent Chromium.

Aqueous samples:

$mgCr^{+3}/L = \text{Total Cr (mg/l)} - Cr^{+6}\ (mg/l)$

Soil samples:

$mgCr^{+3}/Kg = \text{Total Cr (mg/Kg)} - Cr^{+6}\ (mg/Kg)$

Wet Chemistry

Cyanide Analysis

Results

Form 1
WETCHEM

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-01	**Date Collected**	: 10/27/20 08:15
Client ID	: MW-1	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/28/20 16:32
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,9010C/9012B	**Analyst**	: CR
Lab File ID	: TCN102820-D	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 10/28/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-12-5	Cyanide, Total	0.011	0.005	0.001	

Form 1
WETCHEM

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-02	**Date Collected**	: 10/27/20 09:30
Client ID	: MW-2	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/28/20 16:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,9010C/9012B	**Analyst**	: CR
Lab File ID	: TCN102820-D	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 10/28/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-12-5	Cyanide, Total	0.002	0.005	0.001	J

Form 1
WETCHEM

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-03	**Date Collected**	: 10/27/20 10:15
Client ID	: MW-3	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/28/20 16:34
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,9010C/9012B	**Analyst**	: CR
Lab File ID	: TCN102820-D	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 10/28/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-12-5	Cyanide, Total	ND	0.005	0.001	U

Form 1
WETCHEM

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-04	**Date Collected**	: 10/27/20 08:45
Client ID	: TWP-1	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/28/20 16:37
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,9010C/9012B	**Analyst**	: CR
Lab File ID	: TCN102820-D	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 10/28/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-12-5	Cyanide, Total	ND	0.005	0.001	U

Form 1
WETCHEM

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: WG1427543-1	**Date Collected**	: NA
Client ID	: WG1427543-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 10/28/20 16:04
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,9010C/9012B	**Analyst**	: CR
Lab File ID	: TCN102820-D	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 10/28/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-12-5	Cyanide, Total	ND	0.005	0.001	U

Sample Raw Data

Author: CRONDEAU Date : 10/28/2020

Original Run Filename: OM_10-28-2020_10-49-00AM.OMN Created: 10/28/2020 10:49:00 AM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_10-28-2020_10-49-00AM.OMN Last Modified: 10/28/2020 12:14:17 PM
Current Run Author's Signature: [a1wetcheminstrument]
Description: 10-204-00-1-A

Sample	Rep.	Cup No.	Channel 1 Cyanide (ug CN/ 50 mL)	MDF	Weight	
25	1	S1	25.00000			
10	1	S2	10.00000			
5	1	S3	5.00000			
2	1	S4	2.00000			
1	1	S5	1.00000			
0.5	1	S6	0.50000			
0.2	1	S7	0.20000			
0	1	S8	0.00000			
CCV	1	S3	5.13257			
	Known Conc:		0.10000			
	Calibration:		Table/Fig. : 1			
CCB	1	S8	-0.08401			
	Known Conc:		0.00000			
ICV 0.1	1	1	0.09812		50.00000 g	
ICB	1	2	-0.00239		50.00000 g	
WG1427097-1; BLK	1	3	0.00200		50.00000 g	
WG1427097-2; LCS	1	4	0.08993		50.00000 g	90%
~~WG1427097-3; LCSD~~	~~1~~	~~5~~	~~0.08177~~		~~50.00000~~ g	
LCS HI	1	6	0.17728		50.00000 g	89%
~~L2046058-01~~	~~1~~	~~7~~	~~0.00514~~		~~50.00000 g~~	
L2046058-02	1	8	0.00025		50.00000 g	
L2046058-03	1	9	8.95810e-5		50.00000 g	
L2046058-04	1	10	0.00716		50.00000 g	
CCV	1	S3	4.89903			
	Known Conc:		0.10000			
CCB	1	S8	-0.10805			
	Known Conc:		0.00000			
L2046058-05	1	11	0.00164		50.00000 g	
L2046058-07	1	12	0.00201		50.00000 g	
L2046058-08	1	13	0.00090		50.00000 g	
L2046058-09	1	14	0.00042		50.00000 g	
L2045724-04	1	15	0.00834		50.00000 g	
L2046229-01	1	16	0.00126		50.00000 g	
L2046229-02	1	17	0.00181		50.00000 g	
L2046229-03	1	18	0.00194		50.00000 g	
L2046229-04	1	19	0.00172		50.00000 g	
L2046229-05	1	20	0.00491		50.00000 g	
CCV	1	S3	4.91995			
	Known Conc:		0.10000			
CCB	1	S8	-0.12561			
	Known Conc:		0.00000			
L2046229-06	1	21	0.00770		50.00000 g	
L2046229-07	1	22	0.00884		50.00000 g	
WG1427097-3; LCSD	1	5	0.08287		50.00000 g	83%
WG1427249-1; BLK	1	23	-0.00202		50.00000 g	
WG1427249-2; LCS	1	24	0.08551		50.00000 g	86%
WG1427249-3; LCSD	1	25	0.08754		50.00000 g	88%
WG1427248-1; BLK	1	26	-0.00268		50.00000 g	
~~WG1427248-2; LCS~~	~~1~~	~~27~~	~~0.07380~~		~~50.00000~~ g	
WG1427248-3; LCSD	1	28	0.08870		50.00000 g	89%
LCS HI	1	29	0.18141		50.00000 g	91%
CCV	1	S3	4.94845			
	Known Conc:		0.10000			
CCB	1	S8	-0.11447			
	Known Conc:		0.00000			
L2046112-06	1	30	0.00108		50.00000 g	
L2046112-07	1	31	0.00229		50.00000 g	
L2046112-08	1	32	0.00103		50.00000 g	
L2046150-13	1	33	0.00944		50.00000 g	

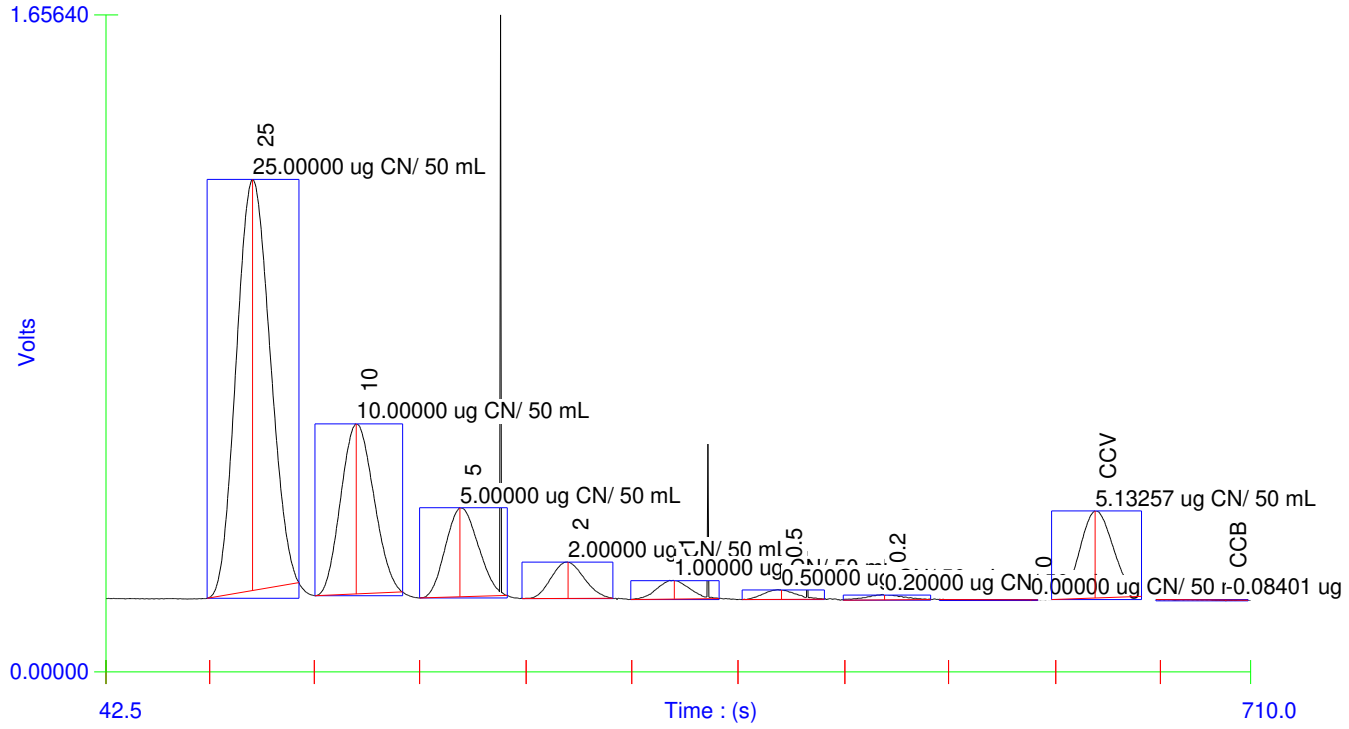
TRAY 1A CR

L2046348-07	1	34	-0.00159		50.00000 g	
L2046348-08	1	35	-0.00011		50.00000 g	
L2046348-09	1	36	0.00011		50.00000 g	
L2046372-04	1	37	0.02342		50.00000 g	
L2046372-05	1	38	0.02108		50.00000 g	
L2046372-06	1	39	0.00534		50.00000 g	
CCV	1	S3	5.17338			
	Known Conc:		0.10000			
CCB	1	S8	-0.09385			
	Known Conc:		0.00000			
WG1427249-4; MS	1	40	0.19484		50.00000 g	97%
WG1427249-5; MSD	1	41	0.20462		50.00000 g	102%
~~L2045869-01~~	~~1~~	~~42~~	~~-0.00638~~		~~50.00000 g~~	
WG1427248-4; MS	1	43	0.17839		50.00000 g	89%
WG1427248-5; MSD	1	44	0.18951		50.00000 g	95%
L2045869-02	1	45	0.00433		50.00000 g	
L2045869-03	1	46	0.00063		50.00000 g	
L2045869-04	1	47	0.00657		50.00000 g	
L2045869-05	1	48	0.02368		50.00000 g	
L2045869-06	1	49	0.03164		50.00000 g	
CCV	1	S3	4.93811			
	Known Conc:		0.10000			
CCB	1	S8	-0.09686			
	Known Conc:		0.00000			
L2045869-07	1	50	-0.00019		50.00000 g	
L2045869-09	1	51	0.00804		50.00000 g	
L2046212-01	1	52	0.00122		50.00000 g	
L2046212-02	1	53	0.00444		50.00000 g	
L2046058-01	1	7	-3.59949e-6		50.00000 g	
L2045869-01	1	42	0.00458		50.00000 g	
WG1427248-2; LCS	1	27	0.08484		50.00000 g	85%
CCV	1	S3	5.11029			
	Known Conc:		0.10000			
CCB	1	S8	-0.06543			
	Known Conc:		0.00000			

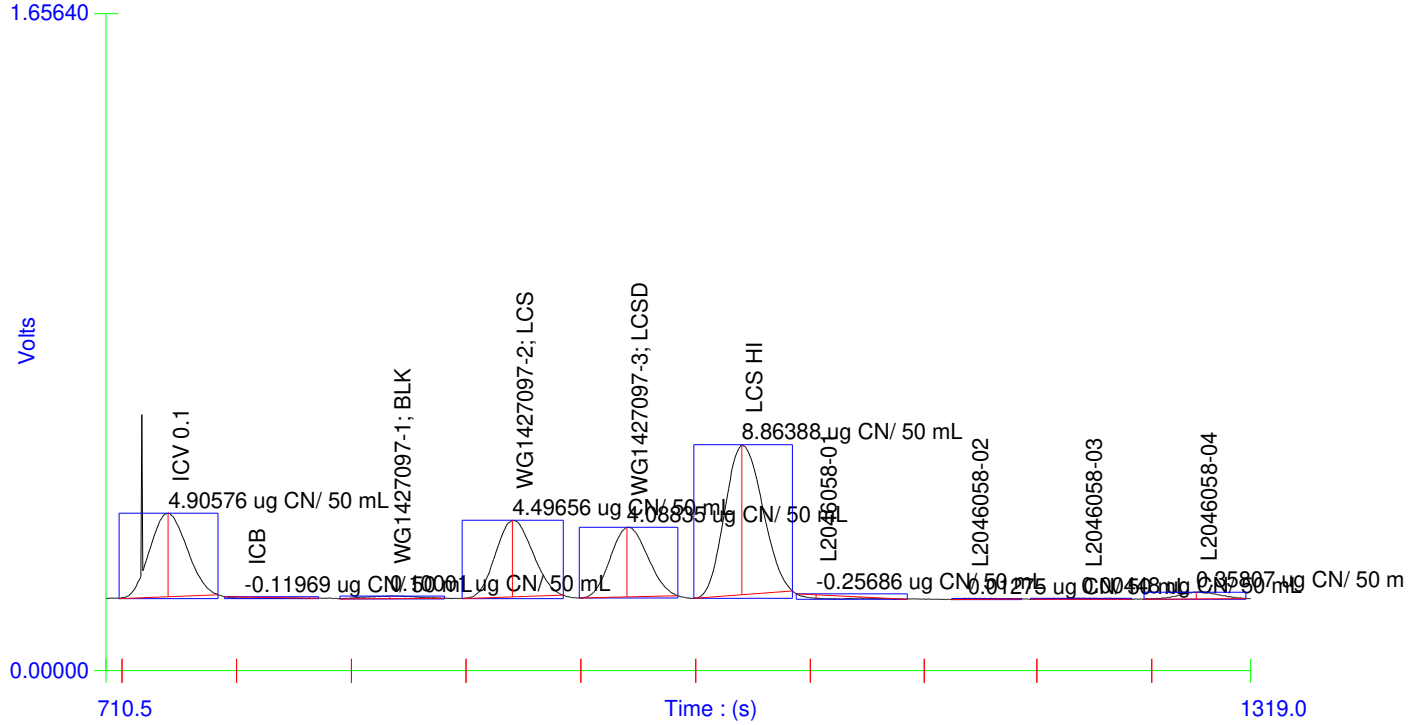
TRAY 1A CR

Author: CRONDEAU Date : 10/28/2020

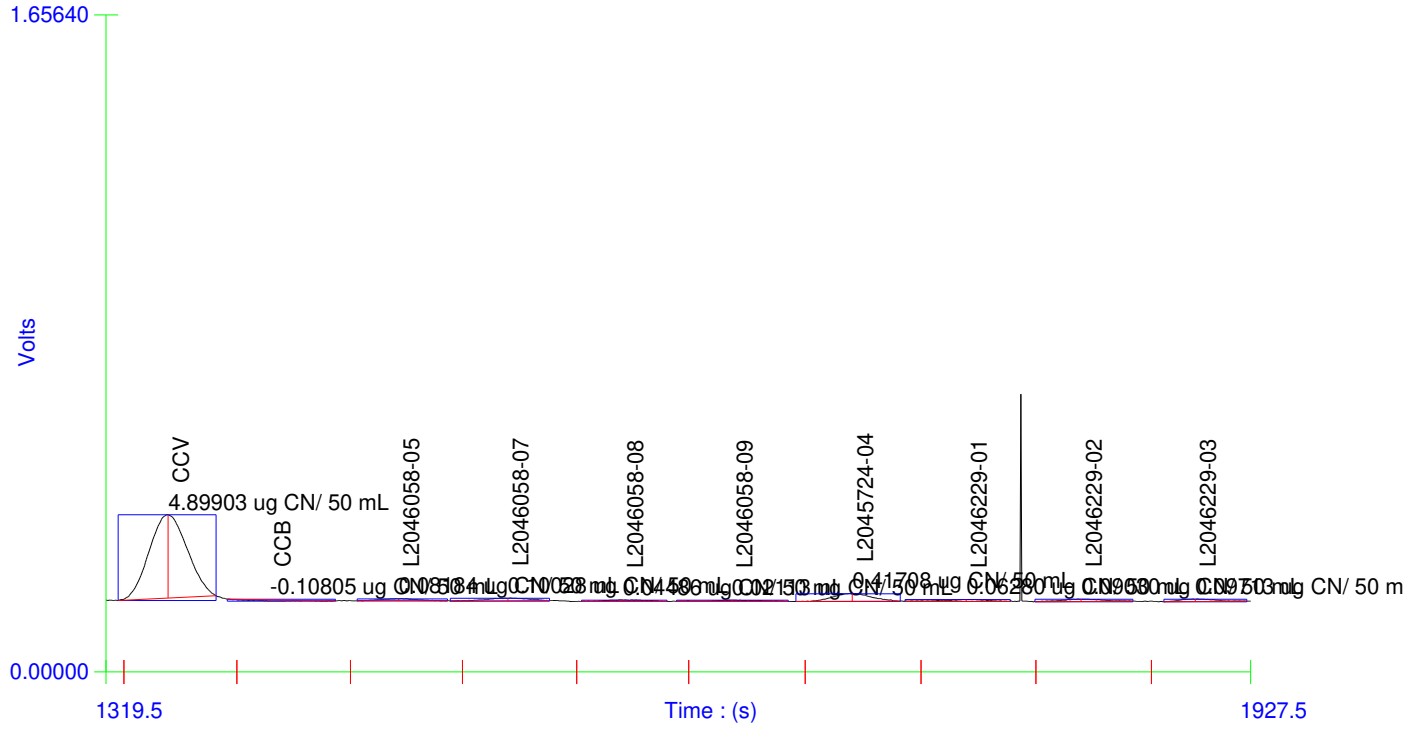
Channel 1 (Cyanide) - Set: 1 / 8



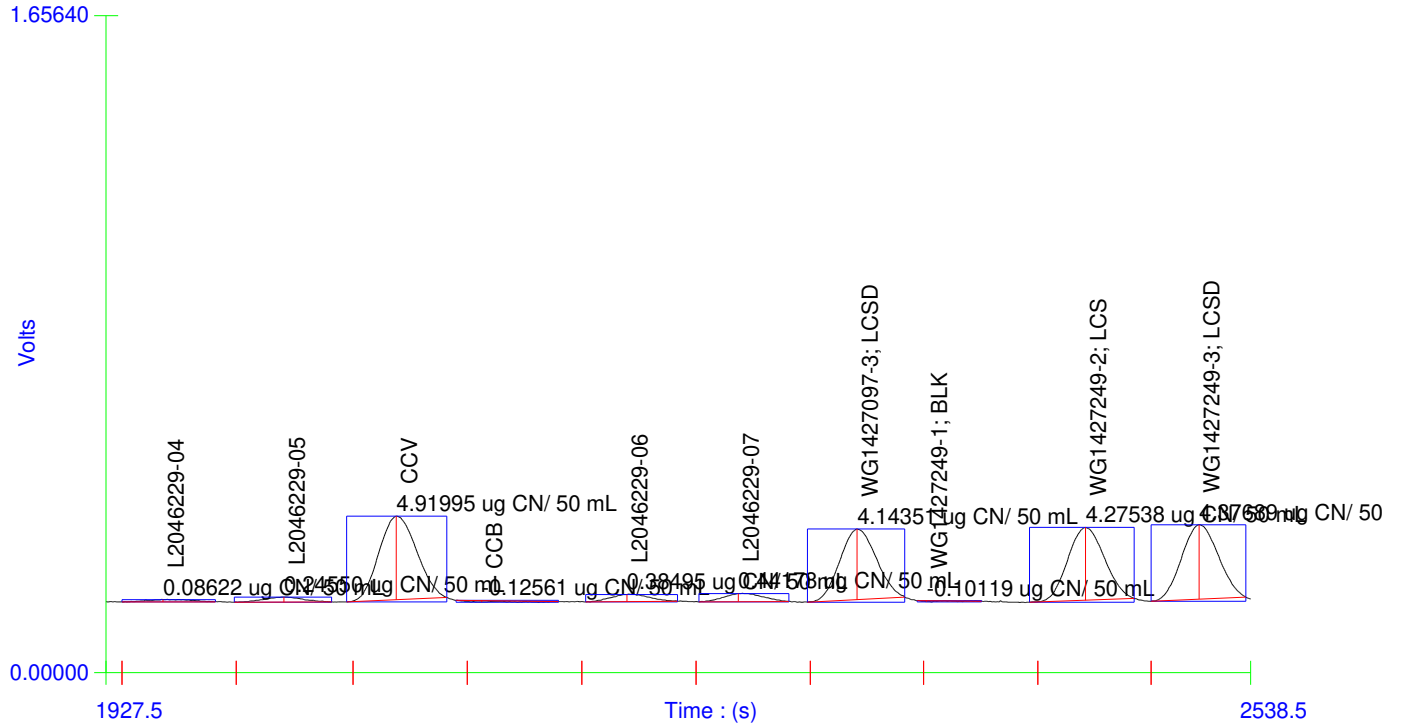
Channel 1 (Cyanide) - Set: 2 / 8



Channel 1 (Cyanide) - Set: 3 / 8

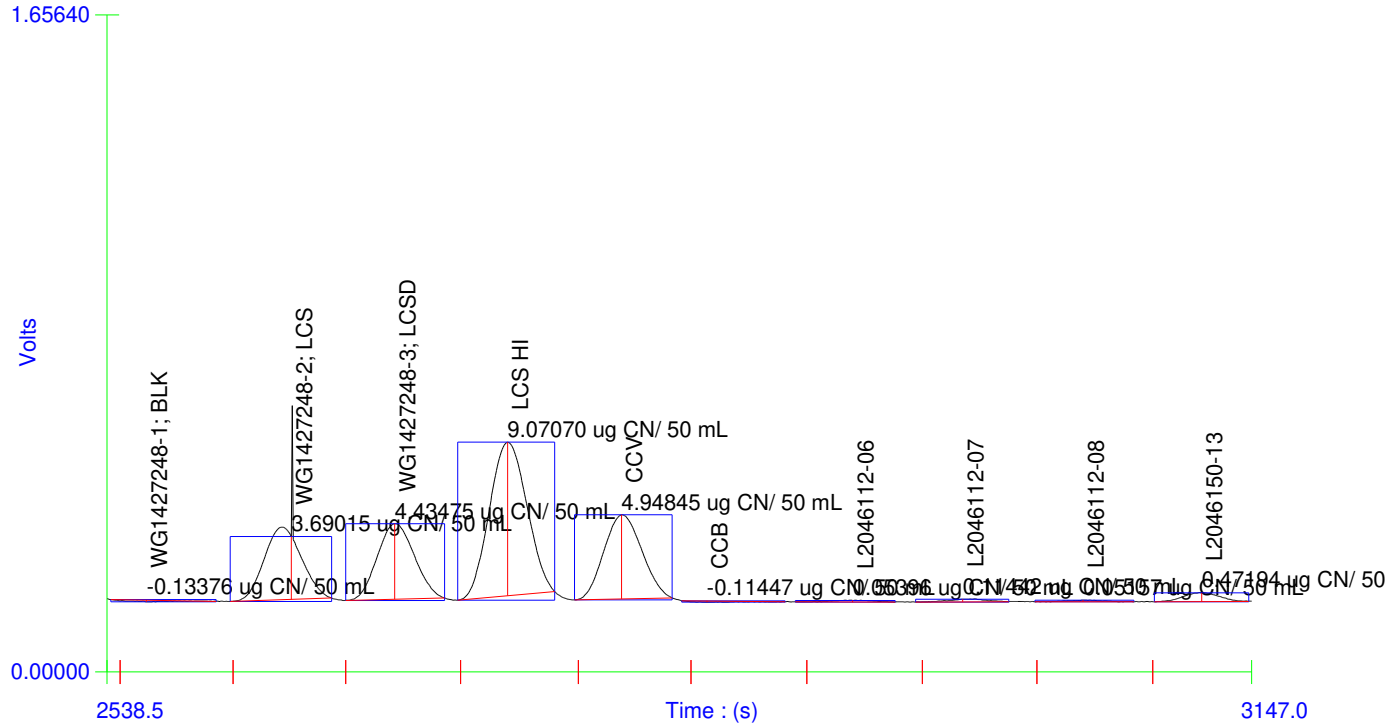


Channel 1 (Cyanide) - Set: 4 / 8

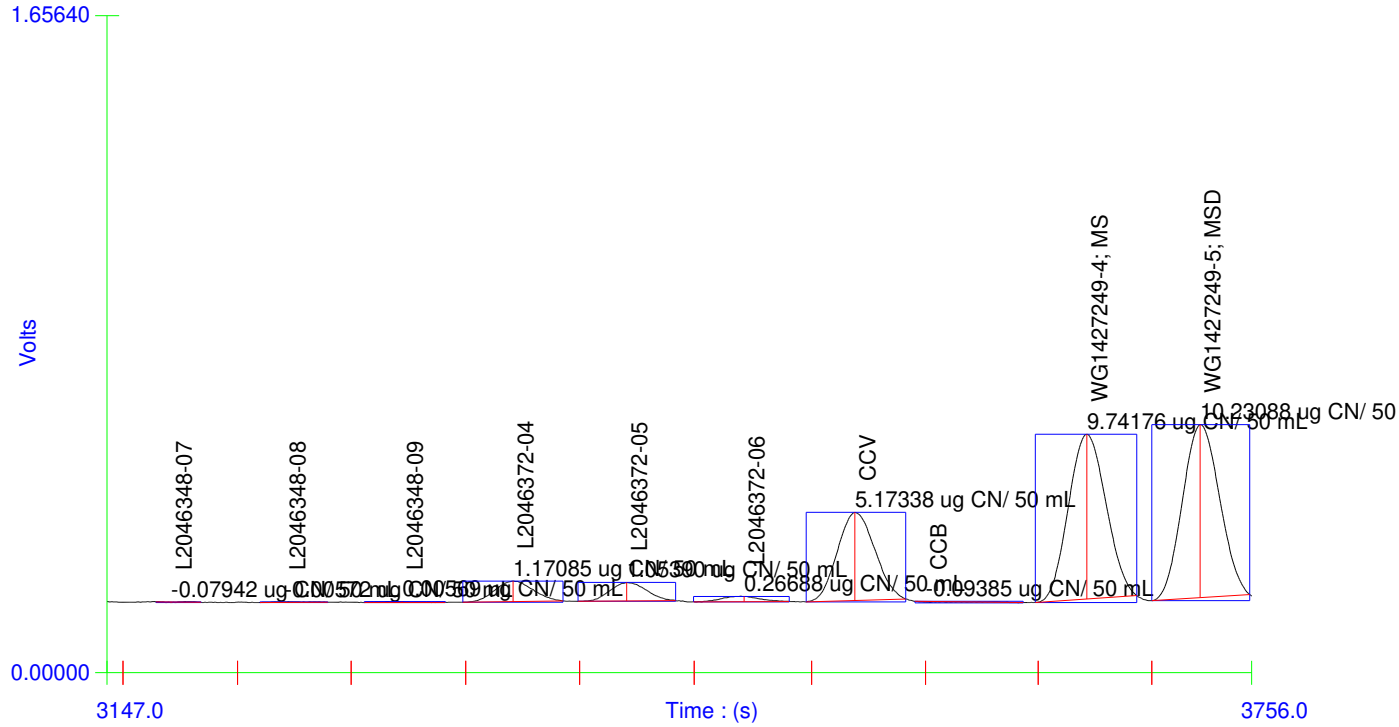


Author: CRONDEAU Date : 10/28/2020

Channel 1 (Cyanide) - Set: 5 / 8

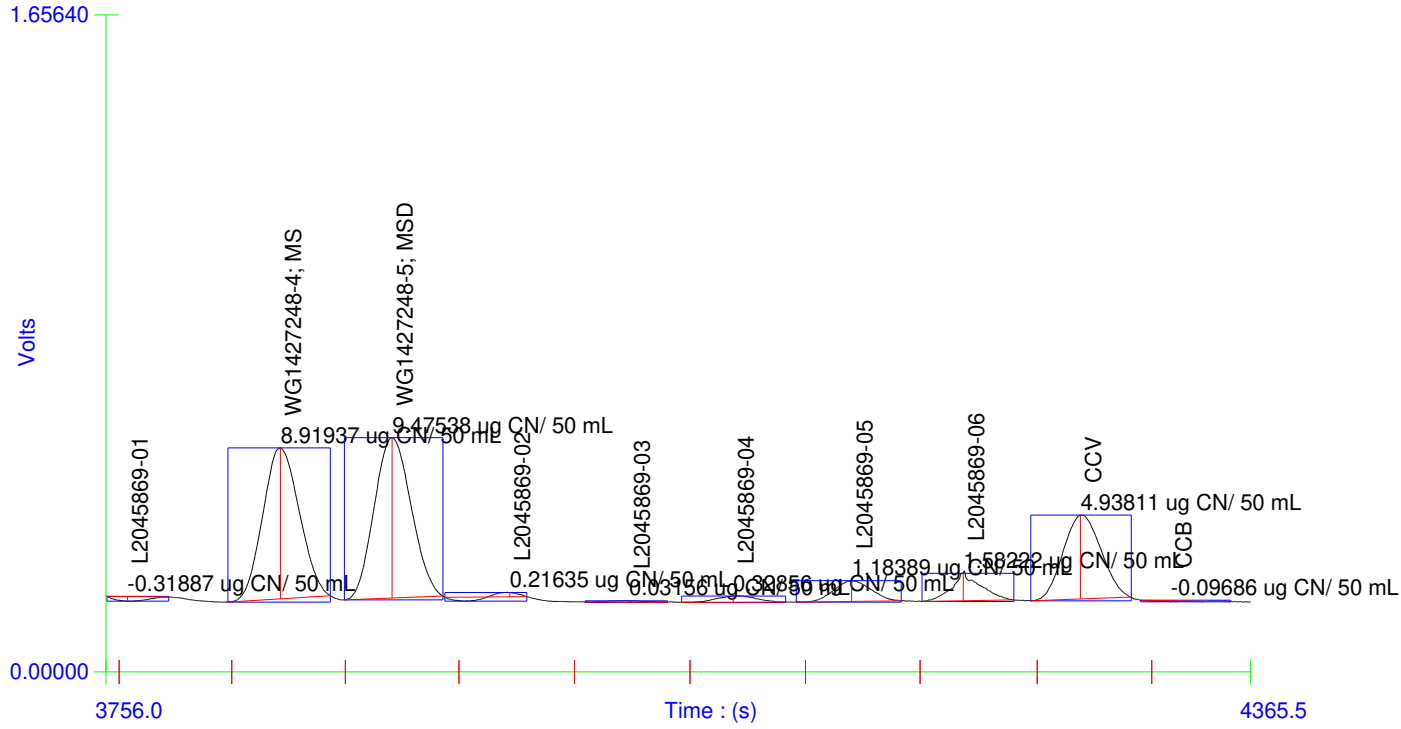


Channel 1 (Cyanide) - Set: 6 / 8



TRAY 1A CR

Channel 1 (Cyanide) - Set: 7 / 8



Channel 1 (Cyanide) - Set: 8 / 8

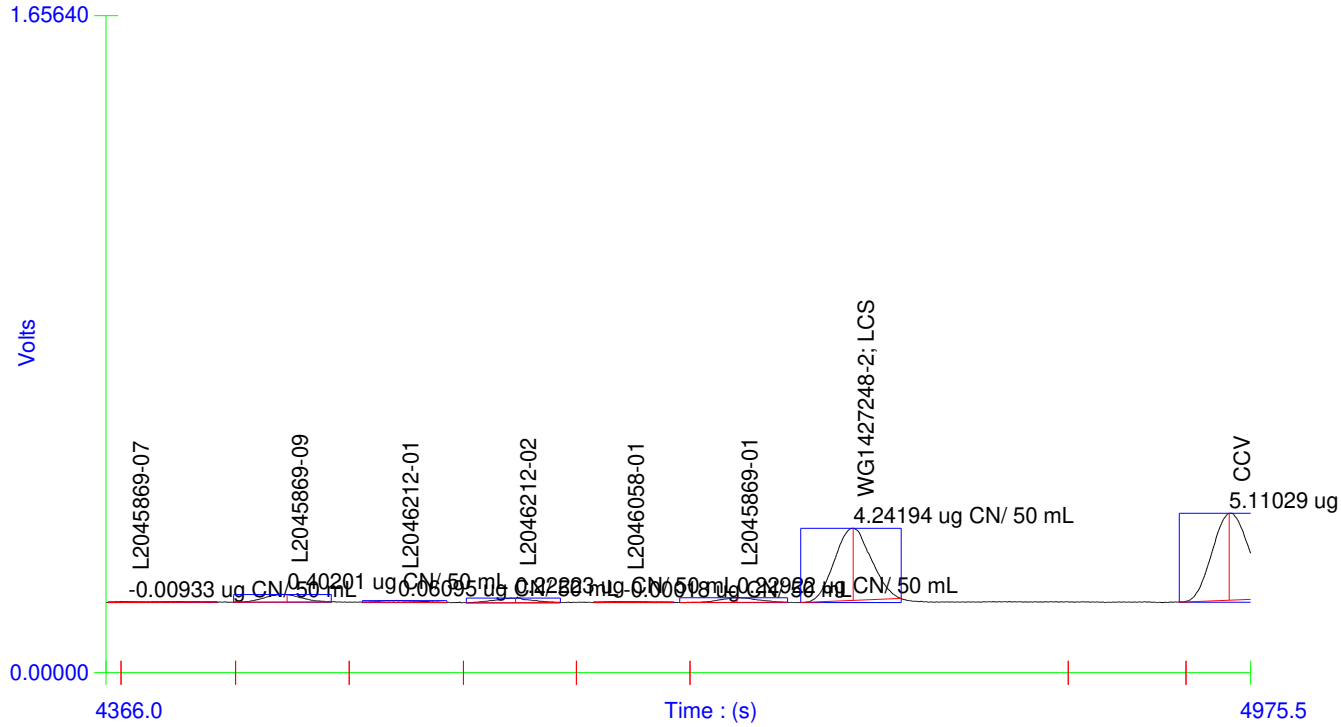
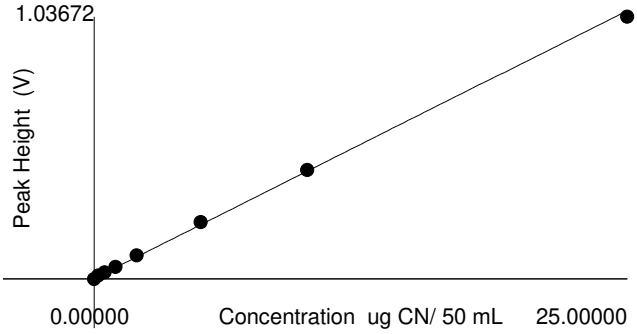


Table : 1 (Cyanide)

	Known Conc. (ug CN/ 50 mL)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (ug CN/ 50 mL)	Detection Date	Detection Time
1	25.00000	1	23.56143	1.03672	0.0	2.3	24.38585	10/28/2020	10:49:45 AM
2	10.00000	1	9.52423	0.42913	0.0	-0.9	10.06989	10/28/2020	10:50:46 AM
3	5.00000	1	4.90372	0.22391	0.0	-4.8	5.23448	10/28/2020	10:51:47 AM
4	2.00000	1	2.01572	0.09147	0.0	-5.7	2.11375	10/28/2020	10:52:49 AM
5	1.00000	1	1.01493	0.04595	0.0	-4.1	1.04129	10/28/2020	10:53:51 AM
6	0.50000	1	0.53768	0.02421	0.0	-5.4	0.52913	10/28/2020	10:54:52 AM
7	0.20000	1	0.29340	0.01216	0.0	-18.4	0.24513	10/28/2020	10:55:55 AM
8	0.00000	1	-0.04096	-0.00174			-0.08228	10/28/2020	10:56:57 AM

Figure : 1 (Cyanide)



Height = 0.04236 * Conc + 0.00180
Conc = 23.56210 * Height - 0.04136
Correlation Coefficient (r) = 0.99989

Weighting : 1/x

Author: CRONDEAU Date : 10/28/2020

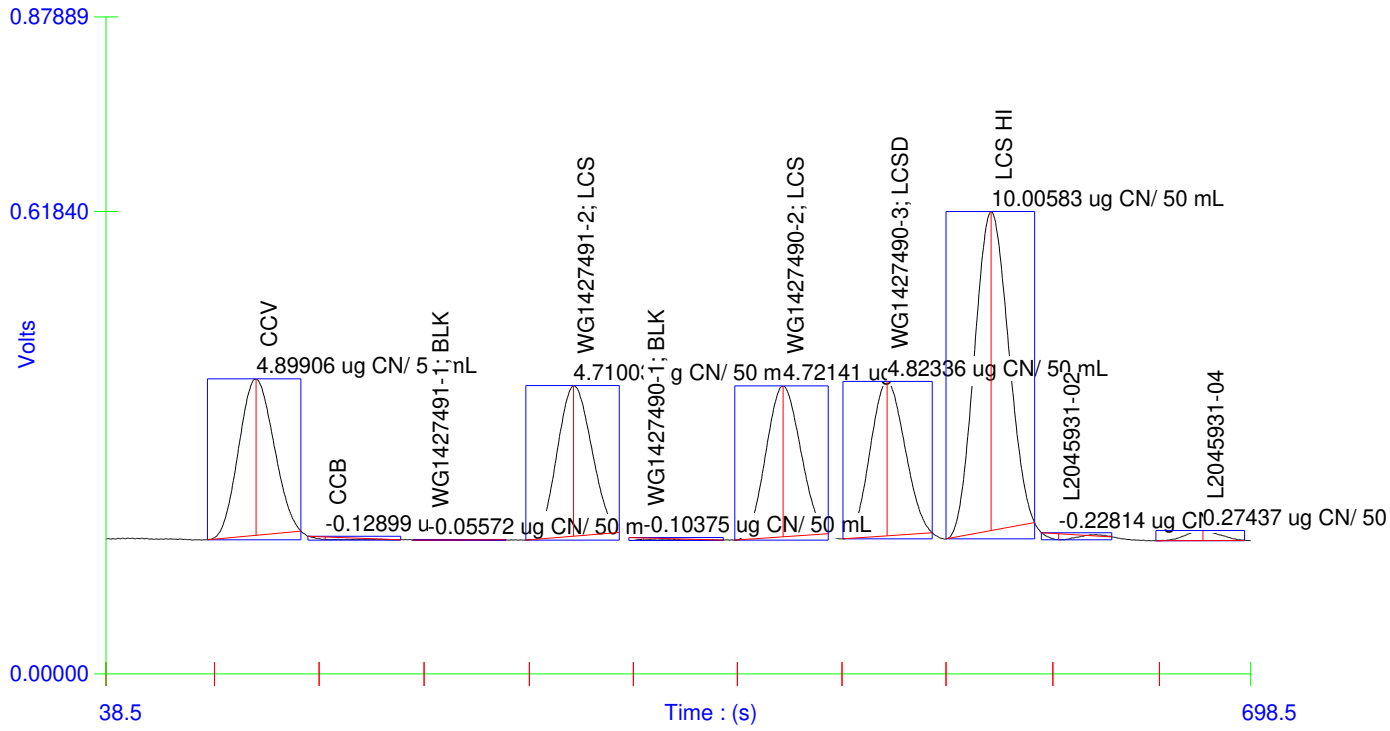
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Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_10-28-2020_12-32-29PM.OMN Last Modified: 10/28/2020 1:10:48 PM
Current Run Author's Signature: [a1wetcheminstrument]
Description: 10-204-00-1-A

Sample	Rep.	Cup No.	Channel 1 Cyanide (ug CN/ 50 mL)	MDF	Weight	
CCV	1	S3	4.89906			
	Known Conc:		0.10000			
CCB	1	S8	-0.12899			
	Known Conc:		0.00000			
	Calibration:		Table/Fig. : 1			
WG1427491-1; BLK	1	54	-0.00111		50.00000 g	
WG1427491-2; LCS	1	55	0.09420		50.00000 g	94%
WG1427490-1; BLK	1	56	-0.00207		50.00000 g	
WG1427490-2; LCS	1	57	0.09443		50.00000 g	94%
WG1427490-3; LCSD	1	58	0.09647		50.00000 g	96%
LCS HI	1	59	0.20012		50.00000 g	100%
~~L2045931-02~~	~~1~~	~~60~~	~~0.00456~~		~~50.00000 g~~	
L2045931-04	1	61	0.00549		50.00000 g	
L2045931-06	1	62	0.00262		50.00000 g	
L2046190-01	1	63	0.00077		50.00000 g	
CCV	1	S3	5.02706			
	Known Conc:		0.10000			
CCB	1	S8	-0.09071			
	Known Conc:		0.00000			
L2046827-01	1	64	0.02403		50.00000 g	
WG1427491-3; DUP	1	65	0.02324		50.00000 g	
L2046703-01	1	66	0.00272		50.00000 g	
WG1427491-4; MS	1	67	0.19920		50.00000 g	100%
~~L2046625-01~~	~~1~~	~~68~~	~~-0.00351~~		~~50.00000 g~~	
WG1427490-4; MS	1	69	0.19443		50.00000 g	97%
WG1427490-5; MSD	1	70	0.19901		50.00000 g	100%
~~L2046625-02~~	~~1~~	~~71~~	~~-0.00490~~		~~50.00000 g~~	
L2046625-03	1	72	0.00388		50.00000 g	
L2046754-01	1	73	0.00042		50.00000 g	
CCV	1	S3	5.12307			
	Known Conc:		0.10000			
CCB	1	S8	0.19927			
	Known Conc:		0.00000			
L2046754-02	1	74	0.00084		50.00000 g	
L2046754-03	1	75	-0.00113		50.00000 g	
L2045931-02	1	60	0.00248		50.00000 g	
L2046625-01	1	68	0.00048		50.00000 g	
L2046625-02	1	71	0.00591		50.00000 g	
CCV	1	S3	5.06748			
	Known Conc:		0.10000			
CCB	1	S8	-0.09337			
	Known Conc:		0.00000			

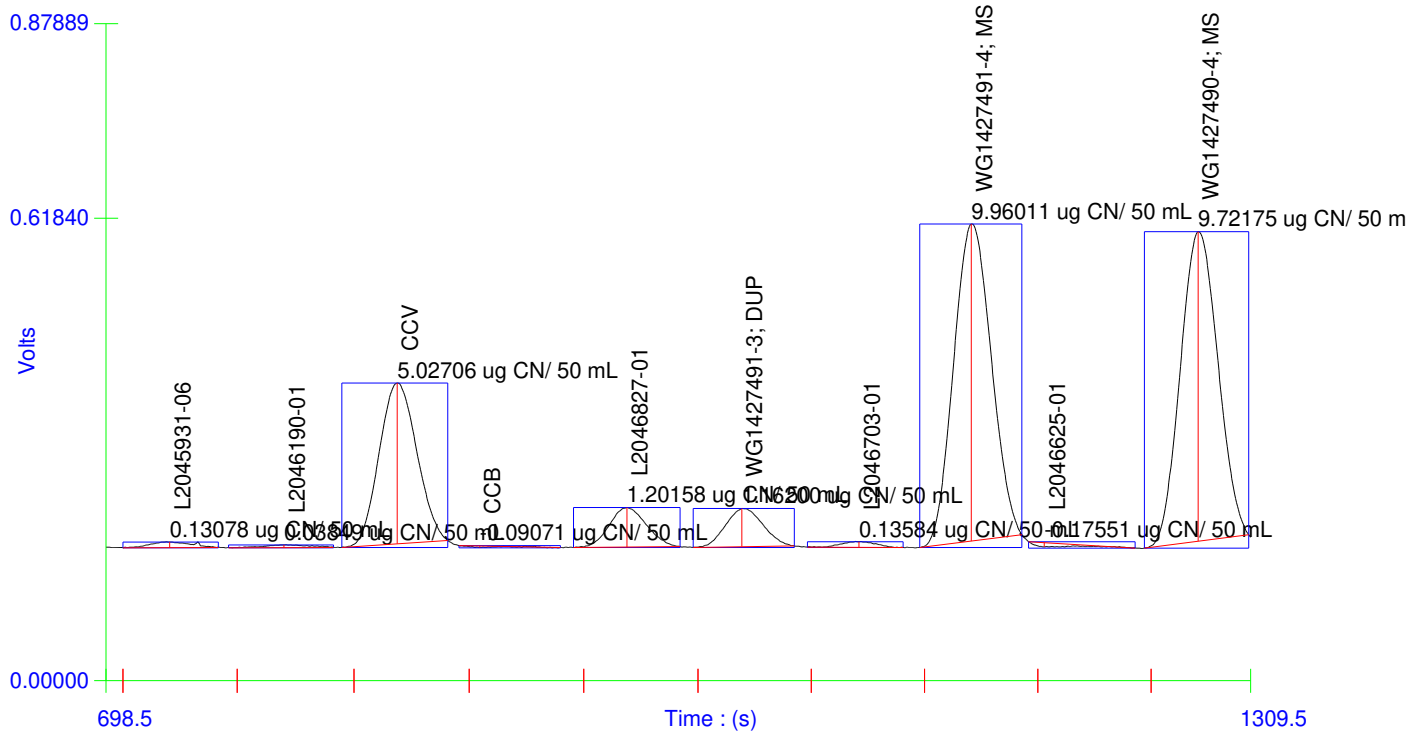
TRAY 1B CR

Author: CRONDEAU Date : 10/28/2020

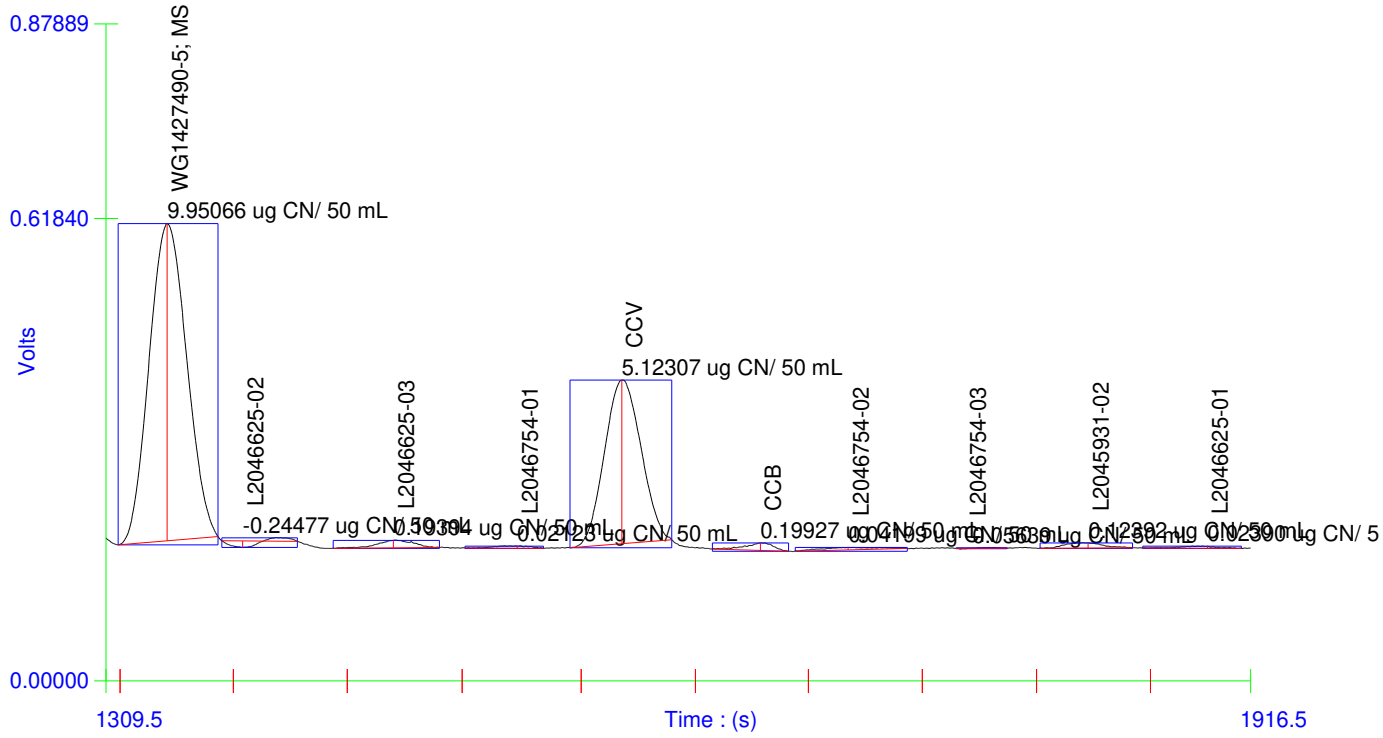
Channel 1 (Cyanide) - Set: 1 / 4



Channel 1 (Cyanide) - Set: 2 / 4



Channel 1 (Cyanide) - Set: 3 / 4



Channel 1 (Cyanide) - Set: 4 / 4

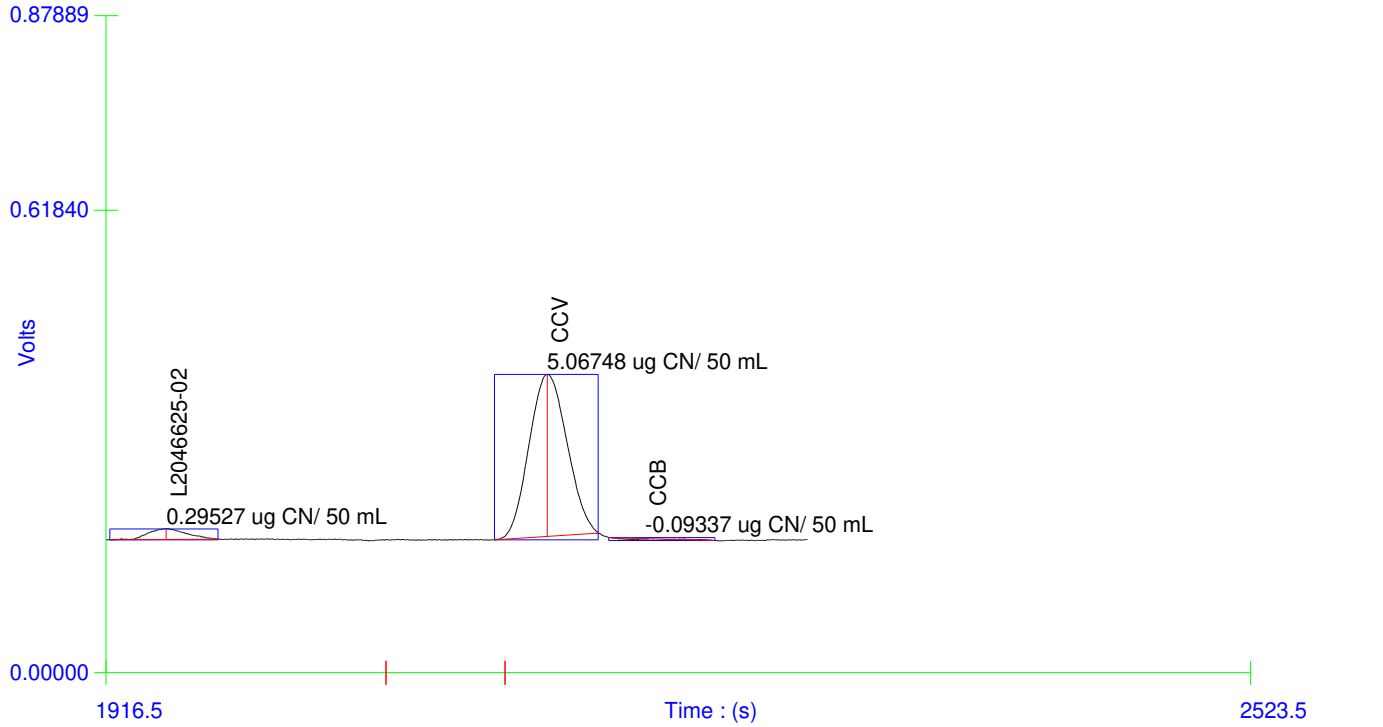
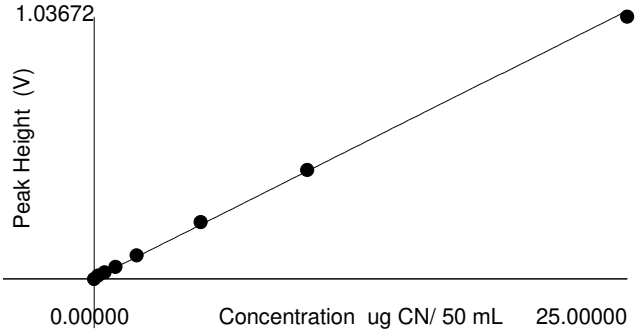


Table : 1 (Cyanide)

	Known Conc. (ug CN/ 50 mL)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (ug CN/ 50 mL)	Detection Date	Detection Time
1	25.00000	1	23.56143	1.03672	0.0	2.3	24.38585	10/28/2020	10:49:45 AM
2	10.00000	1	9.52423	0.42913	0.0	-0.9	10.06989	10/28/2020	10:50:46 AM
3	5.00000	1	4.90372	0.22391	0.0	-4.8	5.23448	10/28/2020	10:51:47 AM
4	2.00000	1	2.01572	0.09147	0.0	-5.7	2.11375	10/28/2020	10:52:49 AM
5	1.00000	1	1.01493	0.04595	0.0	-4.1	1.04129	10/28/2020	10:53:51 AM
6	0.50000	1	0.53768	0.02421	0.0	-5.4	0.52913	10/28/2020	10:54:52 AM
7	0.20000	1	0.29340	0.01216	0.0	-18.4	0.24513	10/28/2020	10:55:55 AM
8	0.00000	1	-0.04096	-0.00174			-0.08228	10/28/2020	10:56:57 AM

Figure : 1 (Cyanide)



Height = 0.04236 * Conc + 0.00180
Conc = 23.56210 * Height - 0.04136
Correlation Coefficient (r) = 0.99989

Weighting : 1/x

TRAY 1B CR

Author: CRONDEAU Date : 10/28/2020

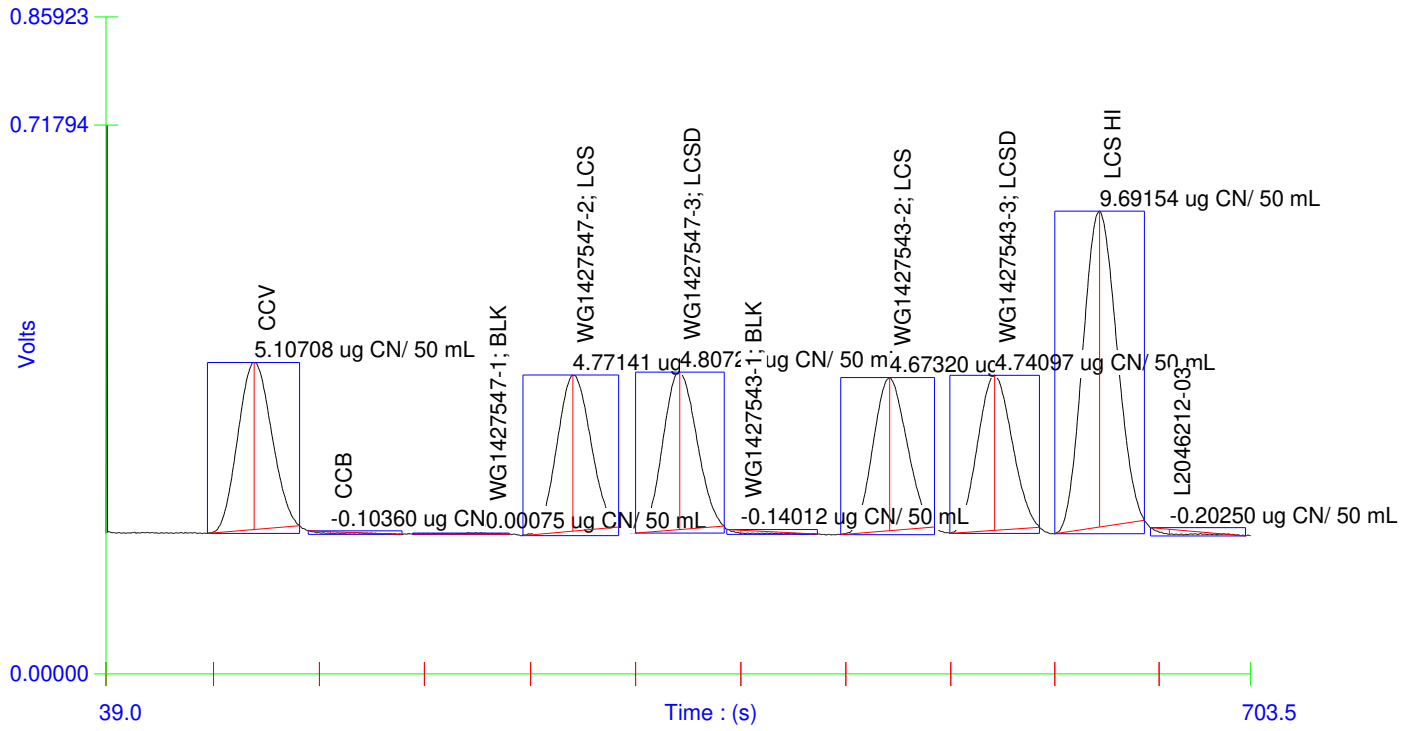
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Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_10-28-2020_03-58-18PM.OMN Last Modified: 10/28/2020 4:46:50 PM
Current Run Author's Signature: [a1wetcheminstrument]
Description: 10-204-00-1-A

Sample	Rep.	Cup No.	Channel 1 Cyanide (ug CN/ 50 mL)	MDF	Weight	
CCV	1	S3	5.10708			
	Known Conc:		0.10000			
	Calibration:		Table/Fig. : 1			
CCB	1	S8	-0.10360			
	Known Conc:		0.00000			
WG1427547-1; BLK	1	1	1.49042e-5		50.00000 g	
WG1427547-2; LCS	1	2	0.09543		50.00000 g	95%
WG1427547-3; LCSD	1	3	0.09615		50.00000 g	96%
WG1427543-1; BLK	1	4	-0.00280		50.00000 g	
WG1427543-2; LCS	1	5	0.09346		50.00000 g	93%
WG1427543-3; LCSD	1	6	0.09482		50.00000 g	95%
LCS HI	1	7	0.19383		50.00000 g	97%
~~L2046212-03~~	~~1~~	~~8~~	~~-0.00405~~		~~50.00000 g~~	
WG1427547-4; MS	1	9	0.18874		50.00000 g	94%
WG1427547-5; MSD	1	10	0.19060		50.00000 g	95%
CCV	1	S3	5.03058			
	Known Conc:		0.10000			
CCB	1	S8	-0.08749			
	Known Conc:		0.00000			
L2046212-04	1	11	0.01019		50.00000 g	
L2046212-05	1	12	0.00695		50.00000 g	
L2046212-06	1	13	0.00136		50.00000 g	
L2046212-07	1	14	-0.00024		50.00000 g	
L2046562-01	1	15	0.00034		50.00000 g	
L2046562-02	1	16	0.00845		50.00000 g	
L2046562-03	1	17	-4.27531e-5		50.00000 g	
L2046562-04	1	18	-0.00012		50.00000 g	
L2046562-06	1	19	0.00197		50.00000 g	
L2046300-01	1	20	-0.00027		50.00000 g	
CCV	1	S3	4.94424			
	Known Conc:		0.10000			
CCB	1	S8	-0.09329			
	Known Conc:		0.00000			
WG1427543-4; MS	1	21	0.17203		50.00000 g	86%
WG1427543-5; MSD	1	22	0.18932		50.00000 g	95%
~~L2046300-02~~	~~1~~	~~23~~	~~-0.00484~~		~~50.00000 g~~	
L2046300-12	1	24	-0.00141		50.00000 g	
L2046659-01	1	25	0.00315		50.00000 g	
L2046659-02	1	26	0.00083		50.00000 g	
L2046659-03	1	27	0.00256		50.00000 g	
L2046790-01	1	28	0.01143		50.00000 g	
L2046790-02	1	29	0.00250		50.00000 g	
L2046790-03	1	30	0.00167		50.00000 g	
CCV	1	S3	5.07825			
	Known Conc:		0.10000			
CCB	1	S8	-0.01261			
	Known Conc:		0.00000			
L2046790-04	1	31	0.00135		50.00000 g	
L2046212-03	1	8	9.86669e-5		50.00000 g	
L2046300-02	1	23	0.00098		50.00000 g	
CCV	1	S3	4.89752			
	Known Conc:		0.10000			
CCB	1	S8	-0.11884			
	Known Conc:		0.00000			

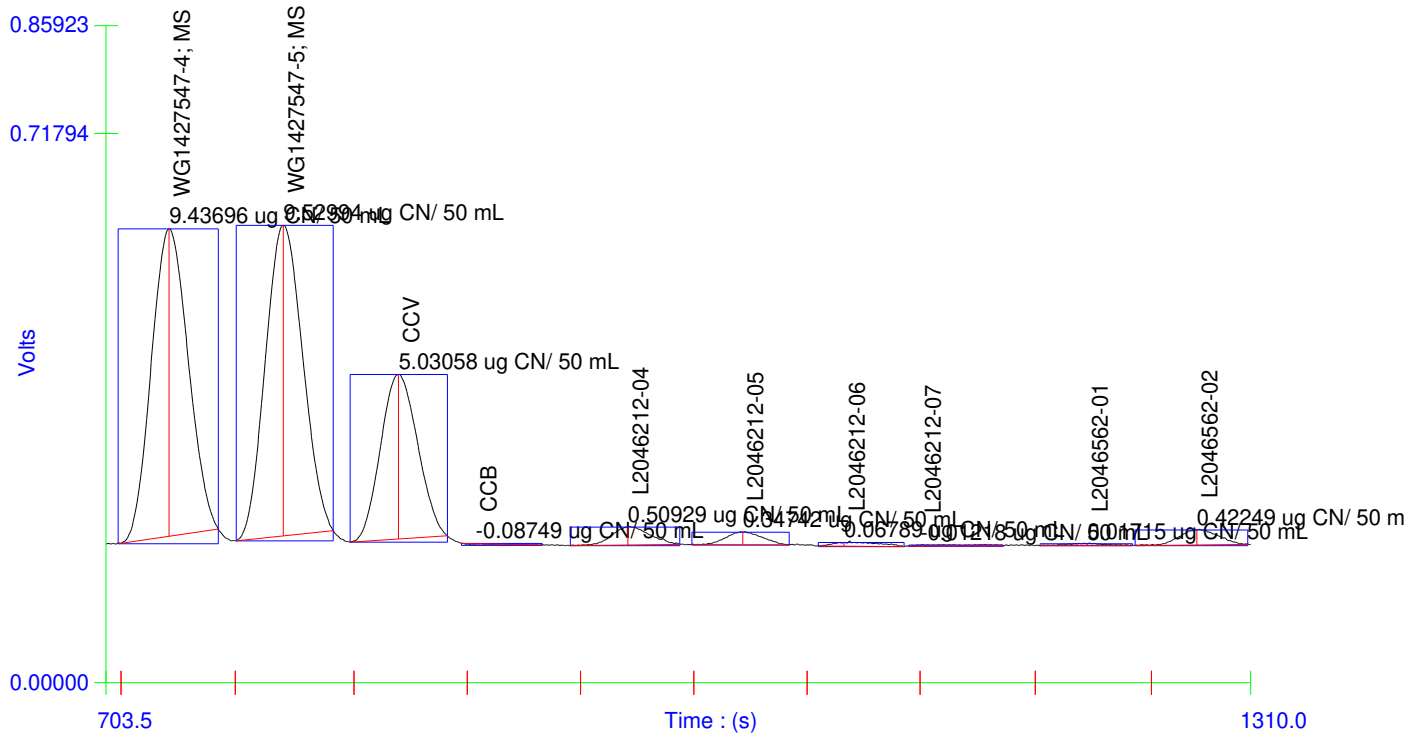
TRAY 2 CR

Author: CRONDEAU Date : 10/28/2020

Channel 1 (Cyanide) - Set: 1 / 5

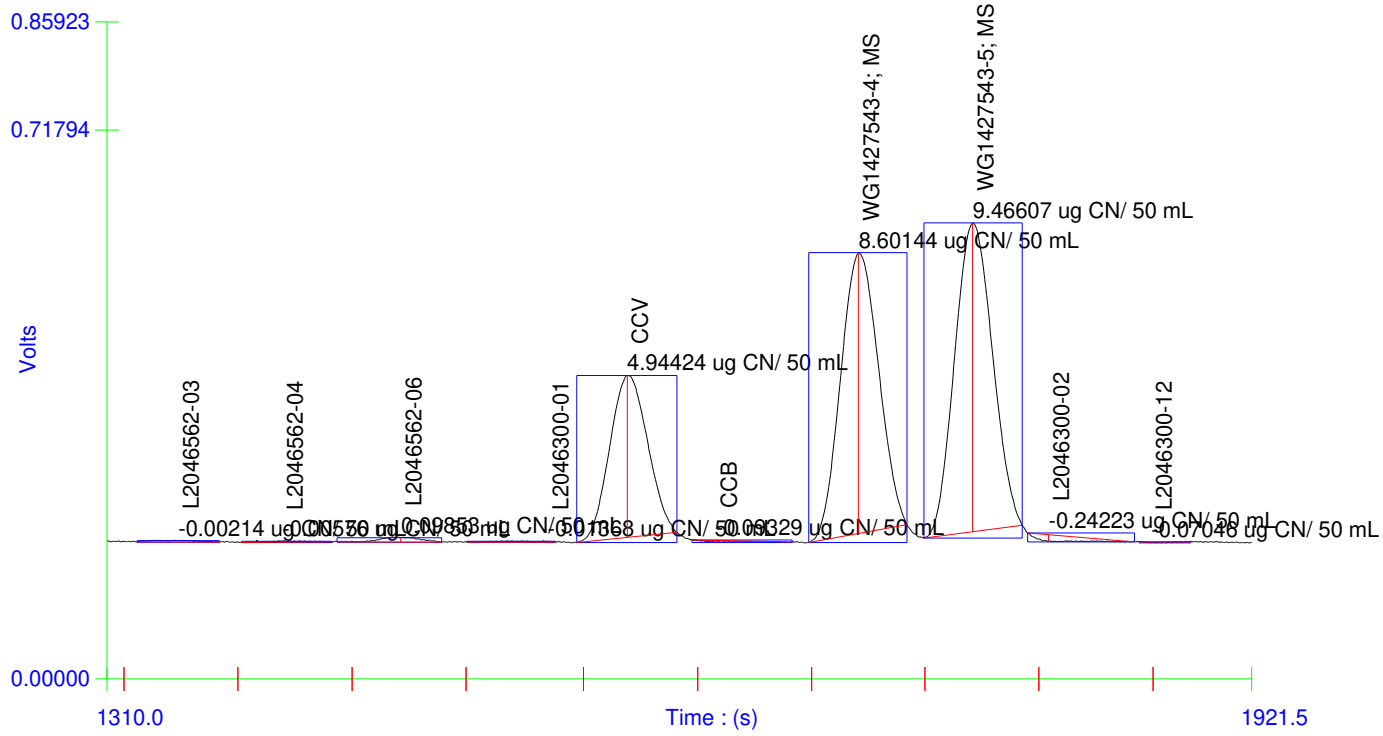


Channel 1 (Cyanide) - Set: 2 / 5

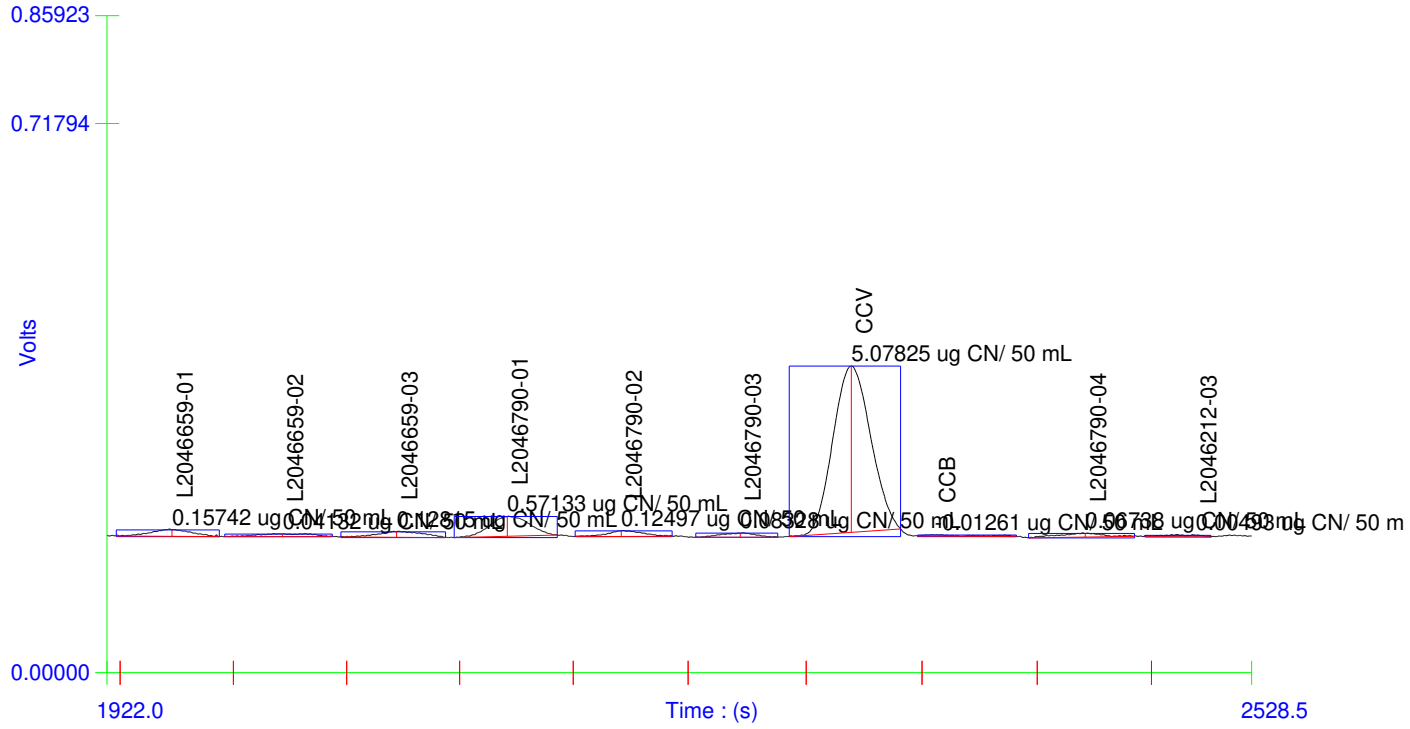


Author: CRONDEAU Date : 10/28/2020

Channel 1 (Cyanide) - Set: 3 / 5



Channel 1 (Cyanide) - Set: 4 / 5



TRAY 2 CR

Author: CRONDEAU Date : 10/28/2020

Channel 1 (Cyanide) - Set: 5 / 5

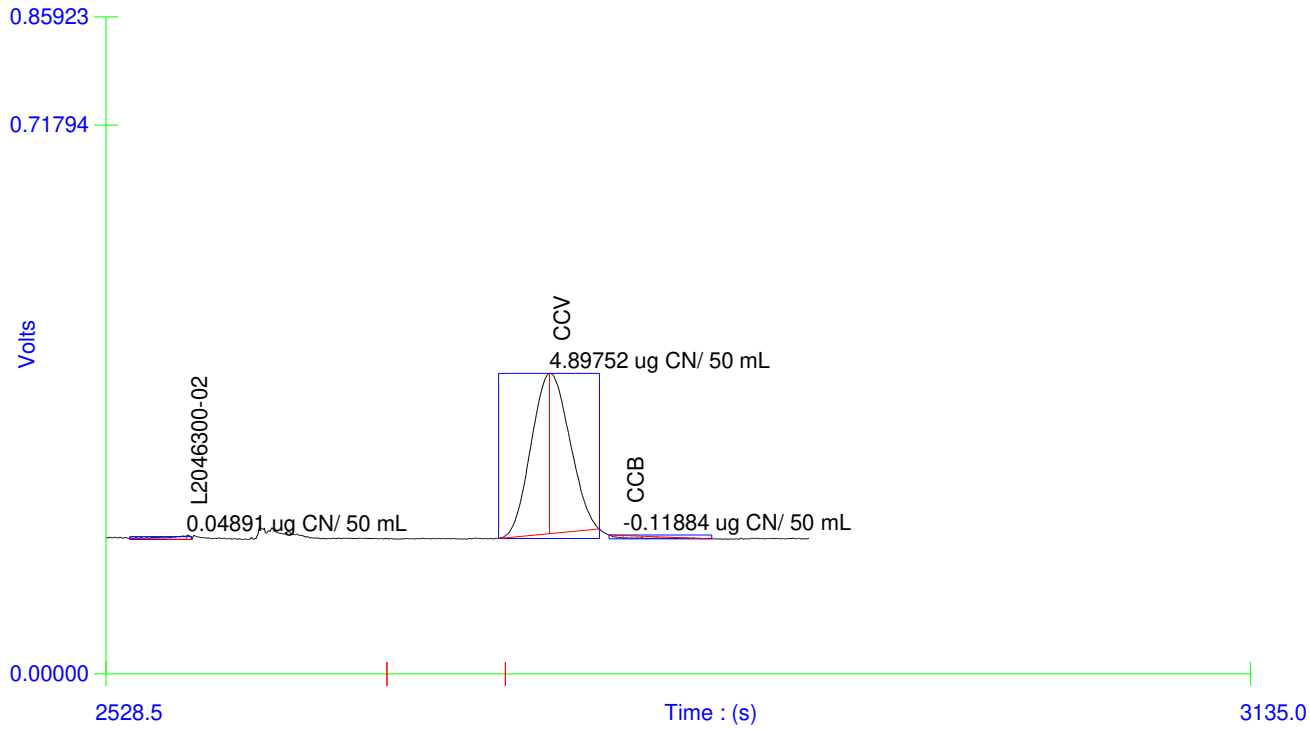
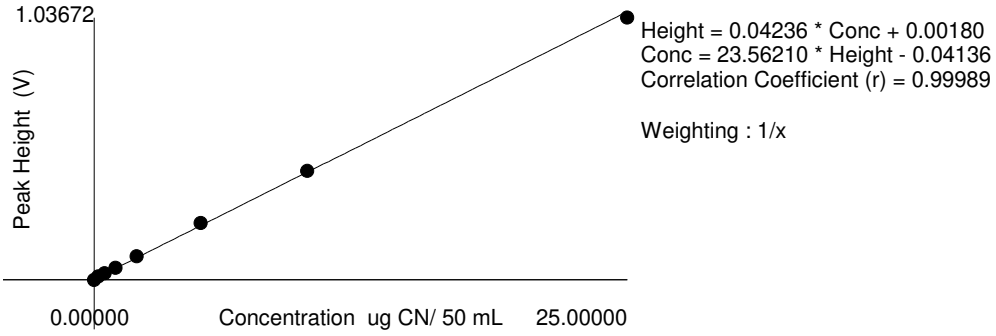


Table : 1 (Cyanide)

	Known Conc. (ug CN/ 50 mL)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (ug CN/ 50 mL)	Detection Date	Detection Time
1	25.00000	1	23.56143	1.03672	0.0	2.3	24.38585	10/28/2020	10:49:45 AM
2	10.00000	1	9.52423	0.42913	0.0	-0.9	10.06989	10/28/2020	10:50:46 AM
3	5.00000	1	4.90372	0.22391	0.0	-4.8	5.23448	10/28/2020	10:51:47 AM
4	2.00000	1	2.01572	0.09147	0.0	-5.7	2.11375	10/28/2020	10:52:49 AM
5	1.00000	1	1.01493	0.04595	0.0	-4.1	1.04129	10/28/2020	10:53:51 AM
6	0.50000	1	0.53768	0.02421	0.0	-5.4	0.52913	10/28/2020	10:54:52 AM
7	0.20000	1	0.29340	0.01216	0.0	-18.4	0.24513	10/28/2020	10:55:55 AM
8	0.00000	1	-0.04096	-0.00174			-0.08228	10/28/2020	10:56:57 AM

Figure : 1 (Cyanide)



TRAY 2 CR

Quality Control

Form 5a
Matrix Spike

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2046300-01		
Matrix Spike	: WG1427543-4	**MS Analysis Date**	: 10/28/20 16:25
Matrix Spike Dup	: WG1427543-5	**MSD Analysis Date**	: 10/28/20 16:26

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Cyanide, Total	ND	0.2	0.172	86	0.2	0.189	94	9	80-120	20

Form 7
Laboratory Control Sample

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1427543-2	**LCS Analysis Date**	: 10/28/20 16:05
Dup Sample ID	: WG1427543-3	**LCSD Analysis Date**	: 10/28/20 16:06

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Cyanide, Total	0.100	0.0930	94.	0.100	0.094	95.	1	85-115	20

Date Created: 08/02/17
Created By: Jason Hebert
File: PM3872-3
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Cyanide, Total	57-12-5	0.005	0.0018	mg/l	90-110		90-110	30	30	4500CN-CE	14 days	1 - Plastic 250ml NaOH preserved
Cyanide, Total	57-12-5	0.005	0.0018	mg/l	85-115	20	80-120	20	20	9010C/9012B	14 days	1 - Plastic 250ml NaOH preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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Created By: Jason Hebert
File: PM3907-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Cyanide, Total	57-12-5	1	0.212	mg/kg	80-120	35	75-125	35	35	9010C/9012B	14 days	1 - Glass 250ml/8oz unpreserved
Cyanide, Total	57-12-5	1	0.212	mg/kg	80-120	35	65-135	35	35	4500CN-CE	14 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/22/16
Created By: Jason Hebert
File: PM3024-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Cyanide, Free	57-12-5	2	0.544	ug/l	75-125		70-130	20	20	9016	14 days	1 - Brown Plastic 1000ml NaOH preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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Date Created: 08/11/17
Created By: Jason Hebert
File: PM3907-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Cyanide, Free	57-12-5	1	0.239	mg/kg						4500CN-E(M)	14 days	1 - Glass 250ml/8oz unpreserved
Cyanide, Free	57-12-5	1	0.239	mg/kg						9016	14 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 08/02/17
Created By: Jason Hebert
File: PM3872-2
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Cyanide, Physiologically Available	57-12-5	0.005	0.0017	mg/l	80-120		75-125	20	20	9014(M)	14 days	1 - Plastic 250ml NaOH preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 08/11/17
Created By: Jason Hebert
File: PM3907-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Cyanide, Physiologically Available	57-12-5	1	0.125	mg/kg	75-125	20	75-125	20	20	9014(M)	14 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Total Cyanide

Aqueous Samples

The instrument will calculate the concentration (µg/50mL).

Result, mg/L = Cs x (1mg/1000µg) x (1000mL/1L) x (DF)

Where:

C_s = Concentration of sample (µg/50mL)

DF = Dilution Factor

Soil or Solid Samples

Soil samples are calculated as follows:

$$\text{Result, mg/Kg} = \frac{C_s \times (1\text{mg}/1000\mu\text{g}) \times (1000\text{g}/1\text{Kg}) \times (DF)}{A}$$

Where:

C_s = Concentration of sample (µg/50mL)

DF = Dilution Factor

$$A = \frac{\text{Sample weight (grams)}}{\text{Final Volume (50mL)}}$$

Dry weight correction

Dry weight correction is calculated as follows:

$$\text{Final concentration in mg/Kg, dry weight} = \frac{\text{Result, mg/Kg}}{\text{\% solids}}$$

Where:

%solids = Percent Solids, as a decimal value

Calculations of Free Cyanide

Aqueous Samples:

Calculate the concentration value of the sample (in ug/L) directly from the standard curve in spectrophotometric sample:

$$\text{ugFCN/L} = \frac{\text{absorbance} - \text{y-intercept}}{\text{slope}} \times \text{Dilution}$$

$$\frac{\mu g}{L}\ \text{free}\ CN^-\ \text{in aqueous sample} =$$

$$\frac{1.3\ \text{mL (center chamber solution volume)}}{3.0\ \text{mL (outer chamber solution volume)}} \times \frac{\mu g}{L}\ \text{free}\ CN^-\ \text{in spectrophotometric sample}$$

Soil Samples:

$$\frac{\mu g}{g}\ \text{free}\ CN^-\ \text{in solid sample} = \frac{\mu g}{L}\ \text{free}\ CN^-\ \text{in extract sample} \times \frac{\text{Final extract solution volume (L)}}{\text{Sample mass (g)}}$$

To calculate final result for soil samples based on dry weight, multiply final result on 100 and divide on %TS (in %)

FCN mg/kg (dry weight) = FCN mg/kg x 100 / TS (%)

Sequence Logs

Tray 1 TCN 10/28/20 AG/CR

Project Book

Pyridine-Barbituric: TCN-102320 -BR
Acetate Buffer: TCN-100926 -AB
Chloramine-T: TCN-102820 -CT
Sodium Hydroxide: TCN-102820 -C

TITLE

From Page No.

ICV
ICB
W6142709 7-1; BIK
-2; LCS
-3; LCSD
LCS HI
46068-01
-02
-03
-04
-05
-07
-08
-09
45724-04
46229-01
-02
-03
-04
-05
-06
-07
W6142724 9-1; BIK
-2; LCS
-3; LCSD
W6142724 8-1; BIK
-2; LCS
-3; LCSD
LCS HI
46112-06
-07
-08
46150-13
46348-07
-08
-09
46372-04
-05
-06
-06MS
-06MSD
45869-01
-01 MS
-01 MSD
-02
-03
-04
-05
-06
-07
-09
46212-01
-02
W6142749 1-1; BIK
-2; LCS
W6142749 0-1; BIK
-2; LCS
-3; LCSD
LCS HI
45931-02
-04
-06
46190-01
46827-01
-01 DUP
46703-01
-01 MS
46625-01
-01 MS
-01 MSD
-02
-03
46754-01
-02
-03

To Page No.

Witnessed & Understood by me,
Page 2313 of 2339

Date

Invented by:

Date

From Page No. ____

WG1427647-1; BLK
-2; LCS
-3; LCSD
WG1427643-1; BLK
-2; LCS
-3; LCSD

LCS HI
46212-03
-03 MS
-03 MSD
-04
-05
-06
-07
46562-01
-02
-03
-04
-06
46300-01
-01 MS
-01 MSD
-02
-12
46659-01
-02
-03
46790-01
-02
-03
-04

To Page N

Sample Preparation

Block ID: Blue 4+5

Sulfamic Acid, 0.4N Lot#: TCN- 102020 SulfSulfuric Acid, 50% Lot#: TCN- 102120 SA MgCl2, 2.5M Lot#: TCN- 102020 Mg NaOH, 1N Lot#: TCN- 102720 Na LCS, 10ppm Lot#: TCN- 102720 LCS MS, 10ppm Lot#: TCN- 102720 MS

Tube ID	Sample	Date	Analyst	Vol. (mL)	pH	pH Adjusted	Cl2 Check	Cl2 treated	S-2 Check	S-2 treated	Spike Vol (mL)	Sulfamic Acid (mL)	H2SO4 (mL)	MgCl2 (mL)	NaOH (mL)	Final Vol (mL)	Comment
1	46058-01	10/27/20 14:45	AG/CR	50	>12		-		-			5	5	2	50	50	
2	-02																
3	-03																
4	-04																
5	-05																
6	-07																
7	Blank										0.5						
8	LCS										0.5						
9	LCSD										1.0						
10	LCS H1																
11	46058-08																
12	-09																
13	45734-04																
14	46229 ~~46299~~ -01																
15	46229 -02																
16	-03																
17	-04																
18	-05																
19	-06																
20	-07																

CR

Pre-Qualtrax Document ID: 07

Document Type: Form

Block ID: Blve 3f4

Sulfamic Acid, 0.4N	Sulfuric Acid, 50%	MgCl2, 2.5M	NaOH, 1N	LCS, 10ppm	MS, 10ppm
Lot#: TCN- 102020-SulF	Lot#: TCN- 102120-SA	Lot#: TCN- 102020-Mg	Lot#: TCN- 102720-Na	Lot#: TCN- 102720-LCS	Lot#: TCN- 102720-MS

Tube ID	Sample	Date	Analyst	Vol. (mL)	pH	pH Adjusted	Cl2 Check	Cl2 treated	S-2 Check	S-2 treated	Spike Vol (mL)	Sulfamic Acid (mL)	H2SO4 (mL)	MgCl2 (mL)	NaOH (mL)	Final Vol (mL)	Comment
1	Blank	10/27/20	GW	50	>12		✓		✓			5	5	2	5	50	
2	LCS	20:50									.5						
3	LCSD										.5						
4	LCSFlit GW										1.0						
5	46112 -07 -06																
6	GW -08 -07																
7	~~46150-13~~ -08																
8	46150-13																
9	46348 -07																
10	-08																
11	46348 -09																
12	46372 -04																
13	-05																
14	-06																
15	-06MS										1.0						
16	-06MSD										1.0						
17	45864 -01																
18	-01MS										1.0						
19	-01MSD										1.0						
20	-02																

Document Type: Form

Pre-Qualtrax Document ID: 07-0

Block ID: Blue 5

Sulfamic Acid, 0.4N	Sulfuric Acid, 50%	MgCl2, 2.5M	NaOH, 1N	LCS, 10ppm	MS, 10ppm
Lot#: TCN- 102020-WF	Lot#: TCN- 102120-SA	Lot#: TCN- 102020MG	Lot#: TCN- 102720-NA	Lot#: TCN- 102720-LCS	Lot#: TCN- 102720-MS

Tube ID	Sample	Date	Analyst	Vol. (mL)	pH	pH Adjusted	Cl2 Check	Cl2 treated	S-2 Check	S-2 treated	Spike Vol (mL)	Sulfamic Acid (mL)	H2SO4 (mL)	MgCl2 (mL)	NaOH (mL)	Final Vol (mL)	Comment
1	458619 -03	10/27/20	CW	50	>12		-		-			5	5	2	5	50	
2	-04	20:50															
3	-05																
4	-06																
5	-07																
6	-08																
7	46212 -01																
8	-02																
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	

CW

Block ID: Blue 1+2

Sulfamic Acid, 0.4N — Lot#: TCN- 102020 SulF
Sulfuric Acid, 50% — Lot#: TCN- 102120 SA
MgCl2, 2.5M — Lot#: TCN- 102020 Mg
NaOH, 1N — Lot#: TCN- 102820 Na
LCS, 10ppm — Lot#: TCN- 102820 LCS
MS, 10ppm — Lot#: TCN- 102820 MS

Tube ID	Sample	Date	Analyst	Vol. (mL)	pH	pH Adjusted	Cl2 Check	Cl2 treated	S-2 Check	S-2 treated	Spike Vol (mL)	Sulfamic Acid (mL)	H2SO4 (mL)	MgCl2 (mL)	NaOH (mL)	Final Vol (mL)	Comment
												5	5	2	50	50	
1	Blank	10/28/20	AG/CR	50	>12		–		–		0.5						
2	LCS	10:20									0.5						
3	LCSD																
4	45931-02										1.0						
5	-04																
6	LCS HI																
7	45931-06																
8	46190-01																
9	46827-01																
10	-01DUP										1.0						
11	46703-01																
12	-01MS										1.0						
13	46625-01										1.0						
14	-01MS																
15	-01MSD																
16	-02																
17	-03																
18	46754-01																
19	-02																
20	-03																

Pre-Qualtrax Document I

Document Type: Form

Published Date: 7/7/2021 10:44:

Block ID: Blue 3+4

Sulfamic Acid, 0.4N Lot#: TCN- 102020 SulF

Sulfuric Acid, 50% Lot#: TCN- 102120 SA

MgCl2, 2.5M Lot#: TCN- 102020 Mg

NaOH, 1N Lot#: TCN- 102820 Na

LCS, 10ppm Lot#: TCN- 102820 LCS

MS, 10ppm Lot#: TCN- 102820 MS

Tube ID	Sample	Date	Analyst	Vol. (mL)	pH	pH Adjusted	Cl2 Check	Cl2 treated	S-2 Check	S-2 treated	Spike Vol (mL)	Sulfamic Acid (mL)	H2SO4 (mL)	MgCl2 (mL)	NaOH (mL)	Final Vol (mL)	Comment
												5	5	2	50	50	
1	46212-03	10/28/20	A6/CR	50	>12		–		–		1.0						
2	-03 MS	12:50									1.0						
3	-03MSD																
4	-04																
5	-05																
6	-06																
7	Blank										0.5						
8	LCS										0.5						
9	LCSD										1.0						
10	LCS HI																
11	46212-07																
12	46562-01																
13	-02																
14	-03																
15	-04																
16	-06																
17	46300-01										1.0						
18	-01 MS										1.0						
19	-01 MSD																
20	-02																

Pre-Qualtrax Document ID

Document Type: Form

Block ID: Blue 5

Sulfamic Acid, 0.4N Lot#: TCN- 102020 SUlf	Sulfuric Acid, 50% Lot#: TCN- 102120 SA	MgCl2, 2.5M Lot#: TCN- 102020 Mg	NaOH, 1N Lot#: TCN- 102820 Na	LCS, 10ppm Lot#: TCN- 102820 LCS	MS, 10ppm Lot#: TCN- 102820 MS

Tube ID	Sample	Date	Analyst	Vol. (mL)	pH	pH Adjusted	Cl2 Check	Cl2 treated	S-2 Check	S-2 treated	Spike Vol (mL)	Sulfamic Acid (mL)	H2SO4 (mL)	MgCl2 (mL)	NaOH (mL)	Final Vol (mL)	Comment
												5	5	2	50	50	
1	46300-1a	10/28/20	AG/CR	50	>12		—		—								
2	46659-01	12:150															
3	-02																
4	-03																
5	46790-01																
6	-02																
7	-03																
8	-04																
9	Blank (soil)			1.033i													
10	LCS HI (soil)			1.0923													
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	

Pre-Qualtrax Document

Document Type: Form

Hexavalent Chromium Analysis

Results

Form 1
WETCHEM

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-01	**Date Collected**	: 10/27/20 08:15
Client ID	: MW-1	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/28/20 08:01
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7196A	**Analyst**	: KP
Lab File ID	: WG1427425.csv	**Instrument ID**	: GENSYS 10S
Sample Amount	: 50	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 10/28/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18540-29-9	Chromium, Hexavalent	ND	0.010	0.003	U

Form 1
WETCHEM

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-02	**Date Collected**	: 10/27/20 09:30
Client ID	: MW-2	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/28/20 08:01
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7196A	**Analyst**	: KP
Lab File ID	: WG1427425.csv	**Instrument ID**	: GENSYS 10S
Sample Amount	: 50	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 10/28/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18540-29-9	Chromium, Hexavalent	0.003	0.010	0.003	J

Form 1
WETCHEM

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-03	**Date Collected**	: 10/27/20 10:15
Client ID	: MW-3	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/28/20 08:02
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7196A	**Analyst**	: KP
Lab File ID	: WG1427425.csv	**Instrument ID**	: GENSYS 10S
Sample Amount	: 50	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 10/28/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18540-29-9	Chromium, Hexavalent	ND	0.010	0.003	U

Form 1
WETCHEM

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: L2046790-04	**Date Collected**	: 10/27/20 08:45
Client ID	: TWP-1	**Date Received**	: 10/27/20
Sample Location	: 13-16 TO 13-30 BEACH CHANNEL DRIVE, QUEENS, NY	**Date Analyzed**	: 10/28/20 08:02
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7196A	**Analyst**	: KP
Lab File ID	: WG1427425.csv	**Instrument ID**	: GENSYS 10S
Sample Amount	: 50	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 10/28/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18540-29-9	Chromium, Hexavalent	ND	0.010	0.003	U

Form 1
WETCHEM

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: WG1427425-1	**Date Collected**	: NA
Client ID	: WG1427425-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 10/28/20 08:00
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7196A	**Analyst**	: KP
Lab File ID	: WG1427425.csv	**Instrument ID**	: GENSYS 10S
Sample Amount	: 50	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 10/28/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18540-29-9	Chromium, Hexavalent	ND	0.010	0.003	U

Form 1
WETCHEM

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Lab ID	: WG1427425-3	**Date Collected**	: 10/27/20 08:15
Client ID	: MW-1DUP	**Date Received**	: 10/27/20
Sample Location	:	**Date Analyzed**	: 10/28/20 08:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7196A	**Analyst**	: KP
Lab File ID	: WG1427425.csv	**Instrument ID**	: GENSYS 10S
Sample Amount	: 50	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 10/28/20

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18540-29-9	Chromium, Hexavalent	ND	0.010	0.003	U

Sample Raw Data

ALPHA ANALYTICAL

WET CHEMISTRY DEPARTMENT

CHROMIUM, HEXAVALENT

Last Change 3/4/13 gff
File HEXCR-L.xlt

SOP No.: 07-12

Product: HEXCR-7196
Curve Calibration Date : 3/11/2020
Curve Identifier: 03112020

Analysis: Hexavalent Chromium
Method: EPA 7196A
Instrument: GENSYS 10S UV-VIS SPEC3
Wavelength: 540 nm
Spike Volume(ml): 1
Spike Solution (mg/l): 5

Analyte: Chromium, Hexavalent
Prep Date/Time: 10/28/20 7:25
Technician: KP
Work group: WG1427425
RDL: 0.01 mg/l

Get Samples

Save to LIMS

Standard ID	Mean signal (pk area) abs
0	0.000
0.005	0.007
0.01	0.014
0.02	0.029
0.05	0.071
0.1	0.141
0.2	0.283
0.5	0.706

Calibration Curve
Volume: 50 ml

Slope	y-intercept
1.411908	0.000182727

Correlation Coefficient
0.999999

ICV/LCS Concentration (mg/l) = 0.20

Reagents/Media Information

Material	Lot No.
Calibration Stds.:	04282020 1PPM
ICV/LCS:	hex_081420_lcs
CCV:	hex_081420_lcs
MS ($K_2Cr_2O_7$):	hex_081420_ms
10% H_2SO_4:	hex_092220_h2so4
Diphenylcarbazide	hex_102320_color
NaOH (1N):	na
Filter Lot	FG0278

CHOOSE METHOD

HEXCR-7196 | TCLP-HEXC | HEXCR-3500 | HEXC | HEXCR-7196-PPB | HEXCR-3500-PPB | SPLP-HEXCR

Time	Date	Sample number	Sample Volume (ml)	Final Volume (ml)	Absorbance	Background Absorbance	Net Absorbance	RESULT (mg/l)	Dilution Factor		RDL Multiplier	FINAL RESULT (mg/l)	
8:00	10/28/2020	BLANK	50	50	0.001		0.001	0.001	1		1.0	0.001	Recovery %
8:01	10/28/2020	ICV/LCS	50	50	0.29		0.290	0.205	1		1.0	0.205	103%
8:01	10/28/2020	L2046790-01	50	50	0		0.000	0.000	1		1.0	0.000	
8:01	10/28/2020	L2046790-02	50	50	0.004		0.004	0.003	1		1.0	0.003	
8:02	10/28/2020	L2046790-03	50	50	0.002		0.002	0.001	1		1.0	0.001	
8:02	10/28/2020	L2046790-04	50	50	0.001		0.001	0.001	1		1.0	0.001	
8:04	10/28/2020	CCV	50	50	0.288		0.288	0.204	1		1.0	0.204	
8:05	10/28/2020	CCB	50	50	0		0.000	0.000	1		1.0	0.000	
			50	50					1		1.0		
			50	50					1		1.0		
			50	50					1		1.0		
			50	50					1		1.0		
			50	50					1		1.0		
			50	50					1		1.0		
			50	50					1		1.0		
			50	50					1		1.0		
			50	50					1		1.0		
			50	50					1		1.0		
			50	50					1		1.0		
			50	50					1		1.0		
			50	50					1		1.0		
			50	50					1		1.0		
			50	50					1		1.0		
			50	50					1		1.0		
			50	50					1		1.0		
			50	50					1		1.0		
			50	50					1		1.0		
8:00	10/28/2020	WG1427425-1	50	50	0.001		0.001	0.001	1		1.0	0.001	
8:03	10/28/2020	WG1427425-3	50	50	0.001		0.001	0.001	1		1.0	0.001	DUP

		Sample number	Sample volume	Final volume (ml)	Absorbance	Background Absorbance	Net Absorbance	Sample Result mg/l	Dilution Factor	Spike conc. mg/l		Spike Result mg/l	Recovery %
8:04	10/28/2020	WG1427425-4	50	50	0.148		0.148	0.000	1	0.1	1.0	0.105	105
			50	50					1	0.1	1.0		
8:01	10/28/2020	WG1427425-2	50	50	0.29		0.290		1	0.20	1.0	0.205	103%
			50	50					1	0.20	1.0		

COMMENTS & OBSERVATIONS	SAMPLE RESULTS
PH=1.9	BLANK
PH=1.9	ICV/LCS
PH=1.9	L2046790-01
PH=1.9	L2046790-02
PH=1.9	L2046790-03
PH=1.9	L2046790-04
PH=1.9	CCV
PH=1.9	CCB
	0
	0
	0
	0
	0
	0
	0
	0
	0
	0
	0
	0
	0
	0
	0
	0
	0
	0
	0
	WG1427425-1
L2046790-01 PH=1.9	WG1427425-3

L2046790-02 PH=1.9	WG1427425-4
L1533192-01	0
LCS	WG1427425-2

Quality Control

Form 5a
Matrix Spike

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Client Sample ID	: MW-2	**Matrix**	: WATER
Lab Sample ID	: L2046790-02		
Matrix Spike	: WG1427425-4	**MS Analysis Date**	: 10/28/20 08:04
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Chromium, Hexavalent	0.003J	0.1	0.105	105					85-115	20

Form 6
Lab Duplicates

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Client Sample ID	: MW-1	**Matrix**	: WATER
Lab Sample ID	: L2046790-01	**Analysis Date**	: 10/28/20 08:01
Dup Sample ID	: WG1427425-3	**DUP Analysis Date**	: 10/28/20 08:03

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Chromium, Hexavalent	ND	ND	NC	20

Form 7
Laboratory Control Sample

Client	: Impact Environmental	**Lab Number**	: L2046790
Project Name	: 13-12 BEACH CHANNEL DRIVE	**Project Number**	: 15209
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1427425-2	**LCS Analysis Date**	: 10/28/20 08:01
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Chromium, Hexavalent	**0.200**	**0.205**	**102.**					**85-115**	**20**

Date Created: 11/07/16
Created By: Jason Hebert
File: PM2972-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Chromium, Hexavalent	18540-29-9	0.01	0.003	mg/l	85-115	20	85-115	20	20	3500Cr-B	24 hours	1 - Plastic 500ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/07/16
Created By: Jason Hebert
File: PM2973-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Chromium, Hexavalent	18540-29-9	0.8	0.16	mg/kg	80-120	20	75-125	20	20	7196A	30 days	1 - Glass 120ml/4oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Hexavalent Chromium

Aqueous samples:

$$\text{mg } Cr^{+6}/L = \left(\frac{\text{absorbence - y-intercept}}{\text{slope}} \times \text{dilution} \right)$$

Solid samples:

$$\text{mg } Cr^{+6}/Kg = \left(\frac{\text{absorbence - y-intercept}}{\text{slope}} \right) \times \left(\frac{\text{dilution x 0.1L (final volume)}}{\text{weight (Kg) of sample}} \right)$$